



# CPI Manual Codes

Derwent World Patents Index | Edition 31



# Derwent World Patents Index (DWPI)

CPI Manual Codes

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# CPI Manual Codes

## Introduction

Derwent Manual Codes have been developed over a period of more than 50 years, having been first introduced in 1963 when they were applied to patent references of the Farmdoc Service. Subsequently, this service has been renamed Section B and incorporated into the Chemical Patents Index (CPI).

As other areas of technology were introduced, new Manual Codes were developed. For example, codes for agricultural patents - Section C (1965), plastics and polymer patents - Section A (1966) and for the remaining sections of CPI in 1970.

Codes are applied to the inventive/significant features of the invention using the Documentation Abstract as the source document. The codes are assigned by teams of Clarivate analysts who have been specially trained in the application of these codes. The analysts have specialist knowledge in each of the areas of technology with which they are concerned.

## About this user guide

This manual is divided into 3 sections. The first section is a list of manual codes in code order, with definitions, by section beginning with Section A and running through each of the Derwent CPI sections to M.

A	Polymers, Plastics	Plasdoc
B	Pharmaceuticals	Farmdoc
C	Agricultural Chemicals	Agdoc
D	Food, Fermentation, Disinfectants, Detergents	
E	General Chemicals	Chemdoc
F	Textiles, Paper, Cellulose	
G	Printing, Coating, Photographic	
H	Petroleum	
J	Chemical Engineering	
K	Nucleonics, Explosives, Protection	
L	Glass, Ceramics, Electro(In)organics	
M	Metallurgy	

The second section comprises 3 appendices which provide quick references for Nano-technology, Green technology and Genetic Engineering respectively.

Section 3 is a list of terms in alphabetical order together with the appropriate code(s).

To select codes, the alphabetical list should be consulted first. Once a code or group of codes has been identified, it is necessary to check the context of the code(s) and to take note of any special notes or conventions by looking in the code order list.

Manual codes are arranged in hierarchies with a broad or general code at the top of the hierarchy followed by sub-divisions of the code into more and more specific categories which may have been introduced over a period of time.

When selecting codes, it is necessary to take into account any broader codes which may have been in use in previous years. If the codes are to be used in online searches then truncation can be used to take the broader codes into account. The different levels in each hierarchy are indicated in this manual by an increasing number of dots e.g. ., ..

Some code definitions have an indication of a year, e.g. 1994, in the entry. This indicates the time at which the code was introduced. Those without a year indicated are valid from the beginning of the coverage for that section.

Scope notes are given for some codes and should be taken into account when selecting codes. Those notes which apply to a group of codes are given at the head of the group.

### Format of the Codes

The format of the code is based firstly on the Section letter, e.g. A for Section A, B for Section B, etc., and then a series of alphanumeric characters as exemplified below:

A01  
 A01-A  
 A01-A00A  
 A01-A01  
 A01-A01A  
 A01-A01A1

The format for searching is exactly as the codes appear in this manual. Codes in Documentation Abstracts products appear in a slightly different format which is that without "leading zeros". For example, the code B06-D01 would appear as B6-D1.

### Searching codes using the online hosts

Manual Codes can be searched in Derwent World Patents Index on Derwent Innovation, ProQuest Dialog and STN.

Various other search parameters can be combined with manual codes, e.g. International Patent Classifications (IPCs, taken from the front page of the patent specification), Cooperative Patent Classifications (CPCs, taken from the front page of the patent specification), Derwent Class and, of course, free text.

There are several advantages in using manual codes. The fact that they are applied by specialist teams of analysts at Clarivate means that the codes are applied in a consistent manner. Also, the need to search all possible synonyms and spellings of the topic of interest is avoided by the use of a coding system.

### Online search example

Searching for dental equipment using the Derwent Class P32 would not cover only dentistry but also bandages, veterinary and prostheses such that many references retrieved searching on the Class will not be related to dentistry. However, the appropriate manual code D08-A04 (valid since 1986) will search on dental equipment only.

```
=> s p32/dc
L1 324760 P32/DC
```

```
=> d 1-3 ti
```

```
L1 ANSWER 1 OF 324760 WPIX COPYRIGHT 2017 CLARIVATE on STN
TI Incontinence disposable diaper comprises a main part that is provided with a suction body in a longitudinal direction and a transverse direction, and a front region is attached with front the lateral longitudinal edge
```

*L1 ANSWER 2 OF 324760 WPIX COPYRIGHT 2017 CLARIVATE on STN*

*TI Dental medical instrument such as ultrasound calibrator, comprises thermochromic pigments which are arranged for visual display of temperatures on surface of dental medical instrument or dental medical device*

*L1 ANSWER 3 OF 324760 WPIX COPYRIGHT 2017 CLARIVATE on STN*

*TI Absorbent articles such as sanitary napkin, has bend line that is provided in low-fabric weight portion so that low-fabric weight portion protrudes to wearer side by contraction of elastic medium in unfolded state*

Looking at the three titles above, only the second is relevant to dentistry equipment owing to the breadth of technologies covered by this class. It is also worth noting the extremely substantial number of records retrieved in the answer set. However, if we were to refine our search using the previously referenced manual code in conjunction with the P32 class:

*=> s l1 and D08-A04/mc*

*D08-A04 DENTAL INSTRUMENTS, SALIVA PUMPS, SYRINGES*

*945 D08-A04/MC*

*L2 624 L1 AND D08-A04/MC*

*=> d 1-3 ti*

*L2 ANSWER 1 OF 624 WPIX COPYRIGHT 2017 CLARIVATE on STN*

*TI Dental fitting of dental assembly attachable to dental component such as dental implant, has attachment portion having projection extending in directions perpendicular to direction from attachment portion towards coronal end of main housing*

*L2 ANSWER 2 OF 624 WPIX COPYRIGHT 2017 CLARIVATE on STN*

*TI Oral care device for placement in oral cavity comprises flexible base substrate, flexible power source disposed on surface of base substrate, and electrode layer disposed on surface of flexible base substrate or flexible power source*

*L2 ANSWER 3 OF 624 WPIX COPYRIGHT 2017 CLARIVATE on STN*

*TI Probe for hand-held-type intraoral scanner for acquiring three-dimensional shape of tooth of patient, has lighting part arranged in housing, and main body for changing position of reflection part by pressing part of housing from outer side*

Looking at the titles above, which are all relevant and falling within a more manageable results set, highlights the benefits of using CPI Manual Codes.

## **Section N - Catalyst Codes**

In the various Manual Code products (online records, documentation abstracts), there will appear from time to time some N manual codes. These codes can be derived from any CPI Section (A through to M).

N manual codes have been applied to sections E, H and J from Derwent Week 197701.

From 197901, coverage was extended to Sections B, C, D, E and L.

N codes are not applied to Section A, F and G.

Section N is not a true Derwent Section but is in fact one of the CPI profiles (No. 21).

## **Chemical Codes (including Derwent Chemistry Resource and Derwent Markush Resource)**

Chemical Fragmentation Codes, graphics indexing and Derwent Registry Numbers are applied to concepts in patents covered by Section B, C and E of CPI. They allow precise searches not only of specific compounds, but also for "Markush" structures which can represent literally millions of compounds.

These indexing methods provide the most comprehensive retrieval systems offered by Clarivate for searching patents, and they involve complete coverage of claims and examples. The use of Manual Codes in conjunction with these is useful in the following cases:

- Because of the high frequency of application of some Fragmentation Codes, the number of results is sometimes very high. The Manual Codes can be used in these cases to refine the search and separate out those of higher relevance (using AND).
- Improved precision is obtainable using a Manual Code where its definition of a concept is more precise than that of the Fragmentation Code.

## **Polymers and Plastics Codes/Polymer Indexing**

The Polymer/Plastics Codes and Polymer Indexing system allow precise searches to be carried out, with high recall, of subject matter belonging to Section A of CPI. The codes represent repeating units of polymers, functional groups, elements, properties, forming processes, modification processes or products and uses of polymers.

The Polymer/Plastics Code has been considerably refined over the years and now Polymer Indexing (since the end of 1993) allows for more specific searching by using linking groups: each separate polymer concept and its associated terms being contained within a linking group.

As with Chemical Codes, the Polymer/Plastics Codes and Polymer Indexing may be used in conjunction with Manual Codes to give a higher relevance and precision to your answer sets.

## **Products featuring Manual Codes**

### ***Documentation Abstracts***

Each Documentation Abstract carries all the Manual Codes assigned in a box at the top right-hand half of the abstract. The codes for each section are grouped together in parentheses with the initial letter removed and placed at the front outside the parentheses.

For example:

B(4-C02E3, 12-M01D)

represents

B04-C02E3 and B12-M01D

(As explained under the heading Format, codes in the printed products are abbreviated by omitting zeros.)

In the case of abstracts assigned to both Sections B and C, the codes are combined as follows:

BC(4-C3, 12-M10B, 12-M11D)

represents

B04-C03, B12-M10B, B12-M11D, and

C04-C03, C12-M10B, C12-M11D

***Images of Documentation Abstracts***

This product provides images of the Documentation Abstracts, supplied via Derwent Innovation, the DAJ Web platform, and via FTP for use via Derpict software.

Manual codes may also be searched, depending on subscription levels, in ***Derwent Innovation, Derwent Innovations Index*** and ***Cortellis***.



**A:  
POLYMERS; PLASTICS**

- A01 Monomers, Condensants
- A02 Polymerisation Controllers
- A03 Natural Polymers
- A04 Addition Polymers
- A05 Condensation Polymers
- A06 Inorganic Polymers
- A07 Polymer Blends, Aqueous  
Dispersions
- A08 Additives
- A09 Properties, Analysis, Testing,  
Control
- A10 Polymerisation, Polymer  
Modification
- A11 Processing Polymers  
including Equipment
- A12 Polymer Applications

## A: POLYMERS; PLASTICS

Code commenced 1966 (Accession Number 60,001P)

### Main Headings

- A01: Monomers, condensants
- A02: Polymerisation controllers
- A03: Natural polymers
- A04: Addition polymers
- A05: Condensation polymers
- A06: Inorganic polymers
- A07: Polymer blends; aqueous dispersions
- A08: Additives
- A09: Properties, analysis, testing, control
- A10: Polymerisation; polymer modification
- A11: Processing polymers including equipment
- A12: Polymer applications

### Scope

All polymers and their related concepts are retrievable using one or more of the above sections. The code is hierarchical in structure so that both generic and specific searching can be carried out.

The polymer-related subject matter only is retrievable using the manual codes. For e.g. a reference to extrusion of aluminium tubes using a polymeric lubricant, the codes for extrusion and the tubes are not assigned. The use of polymer (as lubricants and in metallurgy) is searchable.

### Indexing approach

The coding is based on the Derwent documentation abstract (the specification only being consulted when the information to hand is too vague or is ambiguous). One or more codes are applied to cover only the main inventive features of the invention. There is no set upper limit to the number of codes assigned.

### Coding rules

The coding is carried out generally according to the following rules:-

1. For a novel polymer composition, which can be used in a wide range of applications, only the composition is coded.
2. For a novel polymerisation catalyst, the corresponding polymerisation process is not coded. However the products, i.e. the

polymers produced, are coded.

3. Where a particular process, additive or catalyst is disclosed for specific polymer(s), then both the feature and the polymer(s) are coded e.g. in a reference heat stabiliser for PVC, both concepts are coded.
4. Where a novel additive can be used for a range of alternative polymers e.g. an azo dye for cellulose acetate, polyamide and polyester etc.; then the novel additive (e.g. dye) only is coded.
5. For a polymeric additive or catalyst/controller, the polymer blend code is not applied. The additive should be searched in the polymer section and in the appropriate additive sections. However, the catalyst/controller can be searched in the appropriate catalyst section, polymer section and as A12-W11K.
6. Properties of polymers are only coded if they are of exceptional importance. As examples, properties are coded for high impact polymers or polymers of improved dyeability.
7. References to modified polymers are only coded in A10-E: section. The polymer from A03: to A06: sections is only coded if the process of modification is described.
8. Where a large number of specific concepts belonging to a section are described, then the generic code only of that section is applied e.g. if polyethylene, polypropylene, polybutene-1 and EPDM are codable in an abstract then only A04-G01+ is applied. Therefore, for complete retrieval of a specific concept, both the specific and the generic code should be searched.
9. Prepolymers or intermediates for polymers are conventionally coded as polymers e.g. ethylene glycol terephthalate (A05-E04+), bisphenol A diglycidyl ether (A05-A02), polyurethane prepolymers (A05-G+), polyamic acids (A05-J01+).

### Online retrieval

Since the codes are assigned only to the main inventive features, a search will result in hits of high relevance. For complete recall, fragmentation code searching is recommended.

The manual codes can then be used to (i) limit the hits to those of high relevance or (ii) to divide the hits from a fragmentation code search into those of high and those of low relevance, when the number of hits obtained is unacceptably large.

Because a generic code only of a section is applied for a large number of specific concept(s) belonging to that section, the ORing of the generic and the specific code(s) is recommended for complete retrieval.

### Time ranging

The code has been improved by addition of manual codes during pre-CPI year range (from the Accession Number range 80,000P), and at the beginning of the Accession years 1970, 1977, 1986 and 1994.

Where the coding for a concept had undergone alterations, then for precise retrieval, use may be made of the searchable field Accession Year (or Entry Year) (see Derwent World Patents Index user guides) to restrict the use of the appropriate code to the time period during which it is valid.

## A01 MONOMERS, CONDENSANTS

### Coverage

These are also classified in Section E.

All patents relating to the production and purification of the following: acrolein, acrylic acid, acrylonitrile, adipic acid, bisphenol A, butadiene, caprolactam, chloroprene, diethyl or dimethyl terephthalate, ethyl acrylate, ethylene, ethyl methacrylate, formaldehyde, hexamethylene diamine, isobutene, isoprene, maleic anhydride, melamine, methacrylic acid, methyl (meth)acrylate, methyl styrene, 2,6-naphthalene dicarboxylic acid, phenol, phthalic anhydride, propylene, sebacic acid, styrene, terephthalic acid, tetrafluoroethylene, urea, vinyl acetate, vinyl chloride and vinylidene chloride.

All patents relating to the production and purification of new monomers shown clearly to be usefully polymerisable. Purification, stabilisation or new route of production only of all other known usefully polymerisable monomers. Starting materials for monomers are not coded. Also the catalysts and the processes for the production of monomers are not coded.

For polymerisation of a monomer, search the product i.e. polymer only along with polymerisation process (A10: section) if desired.

<b>A01-A</b>	<b>COMPOUNDS CONTAINING THE ELEMENTS OR GROUPS BELOW</b> Including all compounds not covered by A01-B: to A01-E:, but excluding metal salts. Including their production, handling, storage and purification.
<b>A01-A00A</b>	<b>General heteroatom containing</b> Indexed where the polymer former would require three or more codes from the A01-A+ hierarchy.
	<b>1994</b>
<b>A01-A01</b>	<b>Boron containing compounds</b> e.g. borazoles, carboranes
<b>A01-A02</b>	<b>Phosphorus containing compounds</b> e.g. phosphonitrilic halides
<b>A01-A03</b>	<b>Silicon containing compounds</b> e.g. silanes, cyclic siloxanes
<b>A01-A04</b>	<b>Metal containing compounds</b> Including those having a metal-carbon bond e.g. tributyl tin methacrylate (with A01-D08); vinyl ferrocene (with A01-D)

<b>A01-A05</b>	<b>Nitroso group containing compounds</b> e.g. trifluoro-nitrosomethane	<b>A01-C05</b>	<b>(Cyclo)aliphatic hydrocarbons optionally substituted by hydrocarbyl groups only</b> Excluding A01-B04; e.g. butadiene, isoprene, allene, dicyclopentadiene, piperylene.
<b>A01-A</b>	<b>Others</b> e.g. sulphur dioxide	<b>A01-C06</b>	<b>Bismaleimides</b> <span style="float: right;">1994</span>
<b>A01-B</b>	<b>COMPOUNDS CONTAINING POLYMERISABLE C-C BONDS</b> Excluding A01-C.; A01-D.: Including their production, handling, storage and purification.	<b>A01-C</b>	<b>Others</b>
<b>A01-B00B</b>	<b>General C-C bond</b> Indexed where the polymer former would require three or more codes from the A01-B+ hierarchy. <span style="float: right;">1994</span>	<b>A01-D</b>	<b>MONOOLEFINIC MONOMERS</b> Including their production, handling, storage and purification
<b>A01-B01</b>	<b>Compounds containing both C-C double and C-C triple bonds</b> e.g. vinyl acetylene, dimethyl vinyl ethynyl carbinol.	<b>A01-D00D</b>	<b>General monoolefinic</b> Indexed where the polymer former would require three or more codes from the A01-D+ hierarchy. <span style="float: right;">1994</span>
<b>A01-B02</b>	<b>Compounds containing C-C triple bond(s) only</b> e.g. acetylene, propargyl alcohol.	<b>A01-D01</b>	<b>Heterocyclics containing nuclear N</b> e.g. vinyl pyridine, vinyl carbazoles, maleimide.
<b>A01-B03</b>	<b>Compounds containing more than two C-C double bonds</b> e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate.	<b>A01-D02</b>	<b>Aromatics substituted by hetero atoms/groups</b> e.g. cinnamic acid, coumarone, vinyl benzene sulphonic acid, chloromethyl styrene, vinyl benzoate.
<b>A01-B04</b>	<b>Petroleum chemicals, general</b> e.g. products resulting from refinery cracking processes.	<b>A01-D03</b>	<b>Other aromatics optionally substituted by hydrocarbyl groups only</b> e.g. styrene, alpha-methyl styrene, vinyl toluene, indene.
<b>A01-B</b>	<b>Others</b>	<b>A01-D04</b>	<b>(Cyclo)aliphatic nitriles</b> e.g. acrylonitrile; cyanoacrylic acid (with A01-D08); cyanoacrylates (with A01-D10); vinylidene cyanide.
<b>A01-C</b>	<b>DIOLEFINIC MONOMERS</b> Including their production, handling, storage and purification.	<b>A01-D05</b>	<b>(Cyclo)aliphatic aldehydes or ketones</b> e.g. acrolein; diacetone acrylamide (with A01-D06).
<b>A01-C00C</b>	<b>General diolefinic</b> Indexed where the polymer former would require three or more codes from the A01-C+ hierarchy. <span style="float: right;">1994</span>	<b>A01-D06</b>	<b>(Cyclo)aliphatic amides</b> e.g. acrylamide; diacetone acrylamide (with A01-D05).
<b>A01-C01</b>	<b>Aromatic or (cyclo)aliphatic esters</b> e.g. diallyl phthalates	<b>A01-D07</b>	<b>N-contg. generics and others</b> Excluding A01-D01, A01-D04, A01-D06; e.g. aminoalkyl acrylates (with A01-D10).
<b>A01-C02</b>	<b>Other aromatic compounds substituted by heteroatoms/groups</b> Excluding A01-C01; e.g. bisphenol A diallylether.	<b>A01-D08</b>	<b>(Cyclo)aliphatic carboxylic acids, anhydrides or salts</b> e.g. acrylic acid; maleic anhydride (with A01-E12); cyanoacrylic acid (with A01-D04); including acrylic anhydrides..
<b>A01-C03</b>	<b>Other aromatic compounds optionally substituted by hydrocarbyl groups only</b> e.g. divinylbenzene, divinyl toluene.	<b>A01-D09</b>	<b>(Cyclo)aliphatic alcohols</b> e.g. allyl alcohol.
<b>A01-C04</b>	<b>(Cyclo)aliphatic compounds substituted by heteroatoms/groups</b> Excluding A01-C01; e.g. chloroprene.		

<b>A01-D10</b>	<b>(Cyclo)aliphatic carboxylic esters, general</b> e.g. methyl methacrylate; vinyl acetate; dibutyl maleate (with A01-E12); aminoalkyl acrylates (with A01-D07); cyanoacrylates (with A01-D04).		<b>A01-E05</b>	<b>Amines</b> Excluding A01-E01; e.g. aniline, hexamethylene diamine, hexamethylene tetramine, piperidine, ethyleneimine. Used for nitriles together with A01-E11 or A01-E12 as appropriate e.g. for adiponitrile search A01-E05 and A01-E12.
<b>A01-D10A</b>	. <b>Vinyl esters</b> e.g. vinyl acetate.	2002	<b>A01-E06</b>	<b>Other N-containing</b> Excluding A01-E01 to A01-E05; e.g. oxazoli(di)nes, oxazines, benzimidazoles.
<b>A01-D10B</b>	. <b>(Meth)acrylic esters</b> e.g. methyl (meth)acrylate.	2002	<b>A01-E07</b>	<b>Mono-epoxy compounds</b> e.g. epihalohydrin; ethylene oxide; monoglycidyl ether/ester; glycidol (with A01-E14); and thiiranes (episulphides).
<b>A01-D11</b>	<b>(Cyclo)aliphatic ethers</b> Excluding vinyl thioethers for which see A01-D; e.g. methyl vinyl ether.		<b>A01-E08</b>	<b>Cyclic (thio)ethers</b> Excluding A01-E07; e.g. tetrahydrofuran (THF), oxetanes.
<b>A01-D12</b>	<b>(Cyclo)aliphatic halides</b> Including acid halides; e.g. vinyl(idene) chloride; tetrafluoroethylene; fluoroacrylates (with A01-D10).		<b>A01-E09</b>	<b>Formaldehyde</b> Including trioxane, tetraoxane.
<b>A01-D13</b>	<b>(Cyclo)aliphatic hydrocarbons</b> Excluding A01-B04; e.g. olefins such as ethylene, propylene, diisobutylene; norbornene.		<b>A01-E10</b>	<b>Aldehydes, ketones</b> Excluding A01-E09, e.g. acetaldehyde, furfural, acetone, ketenes.
<b>A01-D</b>	<b>Others</b> e.g. vinyl silanes (with A01-A03); vinyl phosphonic acid (with A01-A02); allyl sulphonic acid; vinyl ferrocene (with A01-A04); vinyl thioethers.		<b>A01-E11</b>	<b>Aromatic carboxylic acids, acid halides, anhydrides or esters</b> e.g. phthalic (iso-, ortho- and tere-), trimellitic, pyromellitic.
<b>A01-E</b>	<b>CONDENSANTS</b> Including their production, handling, storage and purification		<b>A01-E12</b>	<b>(Cyclo)aliphatic carboxylic acids, acid halides, anhydrides or esters</b> e.g. adipoyl chloride; sebacic acid; maleic anhydride (with A01-D08); bishaloformates.
<b>A01-E00E</b>	<b>General condensants</b> Indexed where the polymer former would require three or more codes from the A01-E+ hierarchy.	1994	<b>A01-E13</b>	<b>Phenols</b> Including monohydric and polyhydric e.g. phenol, cresols, resorcinol, bisphenol A.
<b>A01-E01</b>	<b>Triazines</b> e.g. melamine, guanamine.		<b>A01-E14</b>	<b>Alcohols</b> Including dihydric and polyhydric e.g. ethylene glycol, pentaerythritol, cyclohexane dimethanol.
<b>A01-E02</b>	<b>Iso(thio)cyanates</b> e.g. toluene diisocyanate, isophorone diisocyanate. For blocking agents see A02-C.		<b>A01-E</b>	<b>Others</b> e.g. heterocyclic acids; for lactones see A01-E14 and A01-E11 or A01-E12 as appropriate. Similarly for other condensants containing functionally dissimilar groups e.g. diethanolamine see A01-E05 and A01-E14.
<b>A01-E03</b>	<b>Amides</b> Including urea. For lactams see A01-E04.			
<b>A01-E04</b>	<b>Lactams; amino acids</b> e.g. caprolactam, aminocaproic acid, glutamic acid.			

**A01-F** **INTERMEDIATES WHERE THE FINAL MONOMER IS UNKNOWN**  
1994

**A01-F** **Intermediates where the final monomer is unknown**  
1994

## **A02 POLYMERISATION CONTROLLERS**

The use of this section is restricted to polymerisation only. Catalysts used for crosslinking, although often referred to as polymerisation catalysts, are coded as accelerators as appropriate (see A08-C: or A08-D: section). For catalyst recovery/removal from polymer, and for catalyst destruction see A10-G+. Catalysts for processes other than polymerisation, such as production of monomer, condensant or additive, for crosslinking or for polymer modification, are not coded.

### **A02-A CATALYSTS AND ACTIVATORS**

Excluding catalysts and activators for any purpose other than polymerisation, e.g. production of monomers, condensants or additives, for crosslinking or for polymer modification.

#### **A02-A00A General catalyst**

Indexed where three or more codes would be required from the A02-A+ hierarchy. Also indexed for unspecified catalysts.

1994

#### **A02-A01 Peroxides, persalts**

e.g. potassium persulphate, hydrogen peroxide etc.; including hydroperoxides, oxygen; excluding Redox (see A02-A03).

#### **A02-A02 Azo compounds**

e.g. azobisisobutyronitrile; including hyponitrites.

#### **A02-A03 Free radical, general and others**

Excluding A02-A01, A02-A02. Including components of Redox catalysts e.g. ammonium persulphate and ferrous sulphate; ceric ammonium nitrate.

#### **A02-A04 Friedel Crafts**

Including Lewis acids, e.g. BF<sub>3</sub> (etherate), AlCl<sub>3</sub>, SnCl<sub>4</sub>, TiCl<sub>4</sub> (used without an activator), FeCl<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>.

#### **A02-A05 Alfin**

e.g. mixture of allyl sodium, sodium isopropoxide and sodium chloride.

<b>A02-A06</b>	<b>Transition metal (or compound)</b> Excluding A02-A06A to A02-A06D. All transition metal (or compound) containing compositions are searchable in A02-A06 or subdivisions thereof; if the composition further contains a novel non- transition metal (compound) component, see also A02-A07A or A02-A10. Transition metal compounds in free radical or Friedel-Crafts systems are searchable in this section (search A02-A01 to A02-A05 appropriately). Transition metals are: Ag, Au, Co, Cr, Cu, Fe, Hf, Ir, Mn, Mo, Nb, Ni, Os, Pd, Pt, Re, Rh, Ru, Sc, Ta, Tc, Ti, V, W, Y, Zr and the actinides and lanthanides.	<b>A02-A07</b>	<b>Non-transition metal (compounds)</b> Excluding A02-A01 to A02-A05; including Boron, Si.
<b>A02-A06A</b>	. <b>Oxides</b> e.g. CrO <sub>3</sub> . Prior to 1970 see A02-A06.	<b>A02-A07A</b>	. <b>With transition metal (compound)</b> Only when novelty. Prior to 1970 see A02-A07.
1970		1970	
<b>A02-A06B</b>	. <b>(Oxy)halides</b> With no other substitution(s). e.g. TiCl <sub>3</sub> , VOCl <sub>3</sub> . Prior to 1970 see A02-A06.	<b>A02-A07B</b>	. <b>Alkali(ne earth) metal containing organic compounds</b> Including salts and complexes e.g. sodium lactamate, butyl lithium; excluding A02-A07A. Prior to 1977 see A02-A07.
1970		1977	
<b>A02-A06C</b>	. <b>Also containing organo-aluminium compounds</b> Excluding A02-A06A, A02-A06B; e.g. Ti(OiBu) <sub>4</sub> with Et <sub>3</sub> Al. Prior to 1977 see A02-A06, A02-A06A and A02-A06B.	<b>A02-A07C</b>	. <b>Organoaluminium compounds</b> Excluding when in presence of a transition metal (compound). Prior to 1977 see A02-A07.
1977		1977	
<b>A02-A06D</b>	. <b>Containing Cr, Hf, Mn, Mo, Nb, Ta, Ti, V, W or Zr only</b> Excluding A02-A06A to A02-A06C; e.g. Ti(OiBu) <sub>4</sub> . Prior to 1977 see A02-A06, A02-A06A and A02-A06B.	<b>A02-A08</b>	<b>Stereospecific</b> Excluding A02-A06+.
1977		<b>A02-A09</b>	<b>Photocatalyst</b>
<b>A02-A06E</b>	. <b>Metallocenes, general</b> Excludes A02-A06D. See also A02-A06C.	<b>A02-A10</b>	<b>Non-metallic activators for transition metal type catalysts</b> Only when novelty; e.g. amines, esters, P compounds. Prior to 1970 see A02-A06.
1994	<i>Previous code(s): A02-A06+</i>	1970	
<b>A02-A06E1</b>	.. <b>Containing Ti, Zr or Hf</b> Excluding A02-A06D. See also A02-A06C.	<b>A02-A11</b>	<b>Phosphorus containing</b> Excluding A02-A01 to A02-A10. Prior to 1977 see A02-A.
1994	<i>Previous code(s): A02-A06+</i>	1977	
<b>A02-A06E2</b>	.. <b>Containing other transition metal</b> Excludes A02-A06D. See also A02-A06C.	<b>A02-A12</b>	<b>Biocatalyst eg enzymes</b>
1994	<i>Previous code(s): A02-A06+</i>	2002	
		<b>A02-A</b>	<b>Others</b> e.g. t-amines.
		<b>A02-B</b>	<b>CHAIN TRANSFER AGENTS, REGULATORS, MODIFIERS, TELOGENS, CHAIN COUPLERS</b>
		<b>A02-B</b>	<b>Chain transfer agents, regulators, modifiers, telogens, chain couplers</b> e.g. H <sub>2</sub> in olefin polymerisation, SiCl <sub>4</sub> , oxazolines.
		<b>A02-C</b>	<b>POLYMERISATION INHIBITORS AND CHAIN STOPPERS, BLOCKING AGENTS FOR MONOMERS OR CONDENSANTS</b>
		<b>A02-C</b>	<b>Polymerisation inhibitors and chain stoppers, blocking agents for monomers or condensants</b> e.g. hydroquinone, phenol; including catalyst deactivators.

**A02-D OTHER CONTROL MATERIALS****A02-D01 Buffers****A02-D Catalyst support and others**  
e.g. SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>; as catalyst supports, seeding agents.**A03 NATURAL POLYMERS**

Starting natural polymers for the production of cellulose esters and ethers are not coded, see also A10-E: section for the appropriate process involved. This section does not cover wood or the use of cellulose paper making fibres such as wood pulp.

**A03-A POLYSACCHARIDES**  
For chitosan see A10-E09.**A03-A Polysaccharides**  
Non-cellulosic e.g. starch, dextran, chitin.**A03-A00A** . **Uses**  
Prior to 1986 see A03-A. **1986****A03-A01 General****A03-A01A** . **Textiles, fibres**  
Prior to 1970 see A03-A01. **1970****A03-A02 Cellulose acetate****A03-A02A** . **Textiles, fibres**  
Prior to 1970 see A03-A02. **1970****A03-A03 Other cellulose esters**  
e.g. cellulose nitrate.**A03-A04 Cellulose ethers**  
e.g. carboxymethyl cellulose, hydroxyethyl cellulose.**A03-A04A** . **Uses**  
Prior to 1970 see A03-A04. **1970****A03-A04A1** .. **Medical, dental, cosmetic, veterinary; food**  
Prior to 1986 see A03-A04A. **1986****A03-A04B** . **Preparation of cellulose ethers**  
**2002****A03-A05 Cellulose derivatives and others**  
Including regenerated cellulose  
e.g. rayon.**A03-A05A** . **Textiles, fibres**  
Prior to 1970 see A03-A05. **1970****A03-B NATURAL RUBBERS****A03-B Natural rubbers**  
including isomers such as balata, gutta percha.**A03-C OTHER NATURAL POLYMERS****A03-C01 Proteinaceous polymers**  
e.g. gelatin, casein, collagen.



<b>A03-C02</b>	<b>Natural resins or gums, rosin (abietic acid), lignin</b>	
<b>A03-C03</b>	<b>Bituminous plastics</b> e.g. asphalt, lignite. Prior to 1977 see A03-C.	<b>1977</b>
<b>A03-C04</b>	<b>Petroleum resins</b> i.e. low polymers prepared synthetically from mixed unsaturates, typically found in refinery streams - aliphatic olefins, acyclic, cyclic and bicyclic dienes; styrenes and indenenes. Prior to 1977 see A03-C.	<b>1977</b>
<b>A03-C</b>	<b>Others</b> e.g. terpene resins, polymerised drying oils.	

## A04 ADDITION POLYMERS

Polymers of the metal salts of olefinically unsaturated acids are coded according to the valency of the metal e.g. see A04-F04+ for sodium acrylate polymer and A04-B for calcium acrylate polymer. A reference to acrylic resin/polymer with no further details is coded A04-F01+. For acrylic fibres see A04-D02+ or A04-D03+ and A12-S05+. For acrylic sheets see A04-F01+, A04-F06+ and A12-S07+. For acrylic paints and coatings see A04-F01A1 and A12-B01+. A polymer belonging to a particular class in section A04: and also falling within the definition of the code A04-A, is assigned both codes e.g. a monoolefinic acrylate (co)polymer containing sulphur in the repeat unit is assigned appropriate codes A04-F06+ and A04-A.

<b>A04-A</b>	<b>MISCELLANEOUS (CO)POLYMERS</b> Excluding A04-B: to A04-G:.	
<b>A04-A01</b>	<b>Monomers containing both double and triple C-C bonds</b> e.g. vinyl acetylene.	
<b>A04-A02</b>	<b>Monomers containing triple C-C bonds only</b> e.g. acetylene, propargyl alcohol.	
<b>A04-A03</b>	<b>Monomers containing more than two double C-C bonds</b> e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate, polyallyl sucrose (for Carbopols® with A04-F04+).	
<b>A04-A04</b>	<b>Monomers containing a nitroso gp.</b> e.g. trifluoronitrosomethane.	
<b>A04-A05</b>	<b>Carbon monoxide copolymers</b> <i>Previous code(s): A04-A</i>	<b>1994</b>
<b>A04-A06</b>	<b>Monomers containing sulfur group</b> e.g. acrylamide methylpropanesulfonic acid (with A04-D04+), styrene sulfonate (with A04-C). <i>Previous code(s): A04-A</i>	<b>2024</b>
<b>A04-A07</b>	<b>Monomers containing silicon group</b> e.g. vinyltriethoxysilane (with A04-F). <i>Previous code(s): A04-A</i>	<b>2024</b>

<b>A04-A</b>	<b>Others</b> e.g. unsaturated monomers containing elements other than C, H, O, N and halogen (excluding metal salts of unsaturated carboxylic acids (e.g. sodium acrylate) for which see the corresponding acid) e.g. allyl sulphonic acid, vinyl silanes; or not containing C-C unsaturation. e.g. (SO <sub>2</sub> ).	
<b>A04-B</b>	<b>POLYMERS FROM DIOLEFINIC MONOMERS</b>	
<b>A04-B01</b>	<b>General</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	<b>1966-1985</b>
<b>A04-B01A</b>	. <b>Production</b> Prior to 1970 see A04-B01.	<b>1970</b>
<b>A04-B01B</b>	. <b>Compositions</b> Prior to 1986 see A04-B01.	<b>1986</b>
<b>A04-B01C</b>	. <b>Fabrication</b> Prior to 1986 see A04-B01.	<b>1986</b>
<b>A04-B01D</b>	. <b>Treatment</b> Prior to 1986 see A04-B01.	<b>1986</b>
<b>A04-B01E</b>	. <b>Uses</b> Prior to 1986 see A04-B01.	<b>1986</b>
<b>A04-B02</b>	<b>Butadiene homopolymer</b> Including butadiene rubber.	
<b>A04-B02A</b>	. <b>Production</b> Prior to 1970 see A04-B02.	<b>1970</b>
<b>A04-B03</b>	<b>Butadiene with styrene</b> Including SBR.	
<b>A04-B03A</b>	. <b>Production</b> Prior to 1970 see A04-B03.	<b>1970</b>
<b>A04-B04</b>	<b>Butadiene with acrylonitrile</b> Including NBR.	
<b>A04-B05</b>	<b>Butadiene with other monomers</b> Excluding with styrene for which see A04-B03+; with acrylonitrile for which search A04-B04 and ABS for which search A04-C03.	
<b>A04-B06</b>	<b>Isoprene homopolymer</b>	
<b>A04-B07</b>	<b>Isoprene copolymers</b> Excluding butyl rubber for which see A04-G05A.	
<b>A04-B08</b>	<b>Chloroprene (co)polymers</b> e.g. neoprene; including other haloprenes.	
<b>A04-B09</b>	<b>Esters containing 2 non-conjugated C-C double bonds</b> e.g. diallyl phthalates, allyl (meth)acrylate, ethylene glycol bis (allyl carbonate).	
<b>A04-B10</b>	<b>Aromatic diolefinic</b> Excluding A04-B09; e.g. divinyl benzene.	
<b>A04-B11</b>	<b>Bismaleimide (co)polymers.</b>	<b>1994</b>
	<i>Previous code(s): A04-B</i>	
<b>A04-B12</b>	<b>Diallyl dimethylammonium chloride copolymers</b> Copolymers formed from diallyl dimethylammonium chloride; e.g. Polydiallyl dimethylammonium chloride, PDADMAC	<b>2021</b>
<b>A04-B</b>	<b>Others</b> e.g. dicyclo-pentadiene, piperylene.	
<b>A04-C</b>	<b>POLYMERS FROM (SUBSTITUTED) AROMATIC MONOLEFINIC MONOMERS</b>	
<b>A04-C01</b>	<b>General</b>	
<b>A04-C01A</b>	. <b>Production, compositions</b> Prior to 1986 see A04-C01.	<b>1986</b>
<b>A04-C02</b>	<b>Styrene homopolymer</b> For expanded polystyrene see A12-S01+ only. Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	<b>1966-1967</b>
<b>A04-C02A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02.	<b>pre-1970</b>
<b>A04-C02B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02.	<b>pre-1970</b>
<b>A04-C02B1</b>	.. <b>High impact polystyrene</b>	<b>1994</b>
	<i>Previous code(s): A04-C02+</i>	

<b>A04-C02C</b>	<ul style="list-style-type: none"> <li>• <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02.</li> </ul>	<b>pre-1970</b>	<b>A04-D02B</b>	<ul style="list-style-type: none"> <li>• <b>Fibres, textiles</b> Prior to 1970 see A04-D02.</li> </ul>	<b>1970</b>
<b>A04-C02D</b>	<ul style="list-style-type: none"> <li>• <b>Treatment</b> Applied during the accession number range 80,000P (Pre-CPI) to date. Prior to 80,000P see A04-C02.</li> </ul>	<b>pre-1970</b>	<b>A04-D03</b>	<b>(Meth)acrylonitrile copolymers</b> Excluding ABS for which see A04-C03 and acrylonitrile with butadiene for which see A04-B04.	
<b>A04-C02E</b>	<ul style="list-style-type: none"> <li>• <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02.</li> </ul>	<b>pre-1970</b>	<b>A04-D03A</b>	<ul style="list-style-type: none"> <li>• <b>Production, compositions</b> Prior to 1970 see A04-D03.</li> </ul>	<b>1970</b>
<b>A04-C03</b>	<b>Styrene with acrylonitrile and butadiene</b> i.e. ABS.		<b>A04-D03B</b>	<ul style="list-style-type: none"> <li>• <b>Fibres, textiles</b> Prior to 1970 see A04-D03.</li> </ul>	<b>1970</b>
<b>A04-C04</b>	<b>Styrene with other monomers</b> Excluding with butadiene for which see A04-B03+; for ABS see A04-C03.		<b>A04-D04</b>	<b>(Meth)acrylamide (co)polymers (optionally substituted)</b>	
<b>A04-C04A</b>	<ul style="list-style-type: none"> <li>• <b>Production, compositions</b> Prior to 1970 see A04-C04.</li> </ul>	<b>1970</b>	<b>A04-D04A</b>	<ul style="list-style-type: none"> <li>• <b>Uses</b> Prior to 1970 see A04-D04.</li> </ul>	<b>1970</b>
<b>A04-C04B</b>	<ul style="list-style-type: none"> <li>• <b>Styrene with acrylonitrile</b> SAN.</li> </ul>	<b>1994</b>	<b>A04-D04A1</b>	<ul style="list-style-type: none"> <li>• <b>Adhesives and binders; coatings; (electro)photographic, laboratory, optical</b> Prior to 1986 see A04-D04A.</li> </ul>	<b>1986</b>
<b>A04-C05</b>	<b>Alkyl substituted styrenes (co)polymers</b> Hydrocarbon only e.g. vinyl toluene, alpha-methyl styrene. Prior to 1986 see A04-C.	<b>1986</b>	<b>A04-D04A2</b>	<ul style="list-style-type: none"> <li>• <b>Mining, chemical engineering</b> Prior to 1986 see A04-D04A.</li> </ul>	<b>1986</b>
<b>A04-C</b>	<b>Others</b> e.g. vinyl naphthalene, indene, coumarone, styrene sulphonic acid (with A04-A06), vinyl phenol, chloromethyl styrene, cinnamic acid.		<b>A04-D05</b>	<b>Vinyl lactams (co)polymers</b>	
<b>A04-D</b>	<b>POLYMERS FROM SUBSTITUTED MONOOLEFINIC MONOMERS CONTAINING N</b>		<b>A04-D05A</b>	<ul style="list-style-type: none"> <li>• <b>Vinyl pyrrolidones (co)polymers</b>  <i>Previous code(s): A04-D05</i></li> </ul>	<b>1994</b>
<b>A04-D01</b>	<b>General</b>		<b>A04-D06</b>	<b>Vinyl carbazoles (co)polymers</b>	
<b>A04-D02</b>	<b>(Meth)acrylonitrile homopolymers</b>		<b>A04-D07</b>	<b>Vinyl pyridines (co)polymers</b>	
<b>A04-D02A</b>	<ul style="list-style-type: none"> <li>• <b>Production, compositions</b> Prior to 1970 see A04-D02.</li> </ul>	<b>1970</b>	<b>A04-D08</b>	<b>Other vinyl heterocyclics (co)polymers; (substituted) maleimides</b> Excluding A04-D05, A04-D06, A04-D07. Prior to 1977 see A04-D.	<b>1977</b>
			<b>A04-D09</b>	<b>Other amines (co)polymers</b> Excluding A04-D02 to A04-D08; including (quaternary ammonium) salts thereof, e.g. aminoalkyl (meth)acrylates, non-vinyl heterocyclic amines. Prior to 1977 see A04-D.	<b>1977</b>
			<b>A04-D</b>	<b>Others</b> e.g. vinylidene cyanide, cyanoacrylates.	
			<b>A04-E</b>	<b>POLYMERS FROM NITROGEN-FREE, HALOGEN-SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS</b>	
			<b>A04-E01</b>	<b>General</b>	

<b>A04-E02</b>	<b>Vinyl chloride homopolymer</b> Applied during the pre-70 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued. <b>1966-1967</b>	<b>A04-E03C</b>	<b>. Fabrication</b> Prior to 1986 see A04-E03. <b>1986</b>
<b>A04-E02A</b>	<b>. Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. <b>pre-1970</b>	<b>A04-E03D</b>	<b>. Treatment</b> Prior to 1986 see A04-E03. <b>1986</b>
<b>A04-E02B</b>	<b>. Compounding</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. <b>pre-1970</b>	<b>A04-E03E</b>	<b>. Uses</b> Prior to 1986 see A04-E03. <b>1986</b>
<b>A04-E02C</b>	<b>. Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. <b>pre-1970</b>	<b>A04-E04</b>	<b>Vinyl bromide, iodide homopolymers</b>
<b>A04-E02D</b>	<b>. Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. <b>pre-1970</b>	<b>A04-E05</b>	<b>Vinyl bromide, iodide copolymers</b>
<b>A04-E02E</b>	<b>. Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. <b>pre-1970</b>	<b>A04-E06</b>	<b>Vinylidene halide homopolymers</b> Excluding fluoride for which see A04-E10B.
<b>A04-E02E1</b>	<b>.. Chemical, electrical and mechanical engineering; building, civil engineering</b> Prior to 1970 see A04-E02E. <b>1970</b>	<b>A04-E07</b>	<b>Vinylidene halide copolymers</b> Excluding fluoride for which see A04-E10B.
<b>A04-E02E2</b>	<b>.. Adhesives and binders; coatings</b> Prior to 1970 see A04-E02E. <b>1970</b>	<b>A04-E08</b>	<b>Tetrafluoroethylene homopolymer (PTFE)</b>
<b>A04-E03</b>	<b>Vinyl chloride copolymers</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued. <b>1966-1967</b>	<b>A04-E08A</b>	<b>. Production, compositions</b> Prior to 1970 see A04-E08. <b>1970</b>
<b>A04-E03A</b>	<b>. Production</b> Prior to 1970 see A04-E03. <b>1970</b>	<b>A04-E08B</b>	<b>. Mechanical engineering uses</b> Prior to 1970 see A04-E08. <b>1970</b>
<b>A04-E03B</b>	<b>. Compositions</b> Prior to 1986 see A04-E03. <b>1986</b>	<b>A04-E09</b>	<b>Tetrafluoroethylene copolymers</b>
		<b>A04-E10</b>	<b>Fluorine containing other or general</b>
		<b>A04-E10A</b>	<b>. Vinyl fluoride (co)polymers</b> Prior to 1986 see A04-E10. <b>1986</b>
		<b>A04-E10B</b>	<b>. Vinylidene fluoride (co)polymers</b> Prior to 1986 see A04-E10. <b>1986</b>
		<b>A04-E10C</b>	<b>. F-containing ether (co)polymers</b> Prior to 1986 see A04-E10. <b>1986</b>
		<b>A04-E10D</b>	<b>. Other specific F-containing (co)polymers</b> e.g. hexafluoropropylene, chlorotrifluoroethylene, fluoroacrylates. Prior to 1986 see A04-E10. <b>1986</b>
		<b>A04-E</b>	<b>Others</b> e.g. allyl chloride, chloroethyl vinyl ether.

<b>A04-F</b>	<b>POLYMERS FROM NITROGEN- AND HALOGEN-FREE, SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS</b>	
<b>A04-F01</b>	<b>General</b>	
<b>A04-F01A</b>	. <b>Uses</b> Prior to 1986 see A04-F01.	1986
<b>A04-F01A1</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1986 see A04-F01.	1986
<b>A04-F02</b>	<b>Aldehyde (co)polymers</b> e.g. acrolein.	
<b>A04-F03</b>	<b>Ketone (co)polymers</b> e.g. methyl vinyl ketone, methyl isopropenyl ketone.	
<b>A04-F04</b>	<b>(Meth)acrylic acid or anhydride (co)polymers</b> Including metal and ammonium salts.	
<b>A04-F04A</b>	. <b>Production, compositions</b> Prior to 1970 see A04-F04.	1970
<b>A04-F04B</b>	. <b>Adhesives and binders; coatings</b> Prior to 1970 see A04-F04.	1970
<b>A04-F05</b>	<b>Other carboxylic acid or anhydride (co)polymers</b> Excluding A04-F04+; including metal and ammonium salts, e.g. maleic anhydride, itaconic acid.	
<b>A04-F06</b>	<b>(Meth)acrylic ester (co)polymers</b> Including glycidyl acrylates (with A05-A04). Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	1966-1967
<b>A04-F06A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06E1</b>	.. <b>Adhesives, coatings</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A04-F06E.	1970-1985
<b>A04-F06E2</b>	.. <b>Textile coatings and finishes</b> Prior to 1970 see A04-F06E.	1970
<b>A04-F06E3</b>	.. <b>Oil and fuel additives</b> Prior to 1970 see A04-F06E.	1970
<b>A04-F06E4</b>	.. <b>(Electro)photographic, optical</b> Prior to 1986 see A04-F06E.	1986
<b>A04-F06E5</b>	.. <b>Medical, dental, cosmetic and veterinary</b> Prior to 1986 see A04-F06E.	1986
<b>A04-F06E6</b>	.. <b>Adhesives and binders</b> Prior to 1986 see A04-F06E1.	1986
<b>A04-F06E7</b>	.. <b>Coatings</b> Excluding A04-F06E2. Prior to 1986 see A04-F06E1.	1986
<b>A04-F07</b>	<b>Esters of unsaturated carboxylic acids and saturated alcohols (co)polymers</b> Excluding A04-F06+; e.g. dibutyl maleate.	
<b>A04-F08</b>	<b>Vinyl acetate homopolymer</b>	
<b>A04-F09</b>	<b>Vinyl acetate copolymers</b> Excluding ethylene-vinyl acetate copolymer (EVA) for which see A04-G07.	

<b>A04-F10</b>	<b>Other vinyl carboxylate (co)polymers</b> Excluding A04-F08, A04-F09; e.g. vinyl butyrate, vinyl stearate.		
<b>A04-F11</b>	<b>Ether (co)polymers</b> e.g. vinyl isobutyl ether, allyl ethers.		
<b>A04-F</b>	<b>Others</b> e.g. vinylene carbonate, allyl alcohol. For polyvinyl acetal, butyral and formal see A10-E02; for polyvinyl alcohol (PVA) see A10-E09+. Excluding vinyl or allyl inorganic acids (and their metal salts) or their esters, for which see A04-A.		
<b>A04-G</b>	<b>POLYMERS FROM UNSUBSTITUTED (CYCLO)-ALIPHATIC MONOLEFINIC MONOMERS</b>		
<b>A04-G01</b>	<b>General</b> Applied during pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.		<b>1966-1967</b>
<b>A04-G01A</b>	<ul style="list-style-type: none"> <li><b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G01B</b>	<ul style="list-style-type: none"> <li><b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G01C</b>	<ul style="list-style-type: none"> <li><b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G01D</b>	<ul style="list-style-type: none"> <li><b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G01E</b>	<ul style="list-style-type: none"> <li><b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G02</b>	<b>Ethylene homopolymer</b> Applied during pre-1970 (pre-CPI) accession number range 60,000P -		<b>1966-1967</b>
		79,999P and was then discontinued.	
<b>A04-G02A</b>	<ul style="list-style-type: none"> <li><b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.</li> </ul>		<b>pre-1970</b>
<b>A04-G02B</b>	<ul style="list-style-type: none"> <li><b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.</li> </ul>		<b>pre-1970</b>
<b>A04-G02C</b>	<ul style="list-style-type: none"> <li><b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.</li> </ul>		<b>pre-1970</b>
<b>A04-G02D</b>	<ul style="list-style-type: none"> <li><b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.</li> </ul>		<b>pre-1970</b>
<b>A04-G02E</b>	<ul style="list-style-type: none"> <li><b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.</li> </ul>		<b>pre-1970</b>
<b>A04-G02E1</b>	<ul style="list-style-type: none"> <li>.. <b>Adhesives and binders; coatings; textiles</b> Prior to 1970 see A04-G02E.</li> </ul>		<b>1970</b>
<b>A04-G02E2</b>	<ul style="list-style-type: none"> <li>.. <b>Films; packaging</b> Prior to 1970 see A04-G02E.</li> </ul>		<b>1970</b>
<b>A04-G02E3</b>	<ul style="list-style-type: none"> <li>.. <b>(Electro)photographic; medical; dental, cosmetic and veterinary; household, office</b> Prior to 1970 see A04-G02E.</li> </ul>		<b>1970</b>
<b>A04-G02E4</b>	<ul style="list-style-type: none"> <li>.. <b>Electrical and mechanical; engineering; building, civil engineering</b> Prior to 1986 see A04-G02E.</li> </ul>		<b>1986</b>
<b>A04-G03</b>	<b>Propylene homopolymer</b> Applied during pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.		<b>1966-1967</b>

<b>A04-G03A</b>	<ul style="list-style-type: none"> <li>. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.</li> </ul> <p style="text-align: right;">pre-1970</p>	<b>A04-G08A</b>	<ul style="list-style-type: none"> <li>. <b>Ethylene copolymers with unsaturated acids, anhydrides or esters</b> For ionomers see A10-E21B. Prior to 1986 see A04-G08.</li> </ul> <p style="text-align: right;">1986</p>
<b>A04-G03B</b>	<ul style="list-style-type: none"> <li>. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.</li> </ul> <p style="text-align: right;">pre-1970</p>	<b>A04-G09</b>	<b>Propylene copolymers</b> Excluding A04-G06+.
<b>A04-G03C</b>	<ul style="list-style-type: none"> <li>. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.</li> </ul> <p style="text-align: right;">pre-1970</p>	<b>A04-G10</b>	<b>4-Methylpentene-1 (co)polymers</b>
<b>A04-G03D</b>	<ul style="list-style-type: none"> <li>. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.</li> </ul> <p style="text-align: right;">pre-1970</p>	<b>A04-G11</b>	<b>Ethylene co-polymers, general</b> Indexed where three or more copolymers of ethylene are present.  <i>Previous code(s): A04-G01+, A04-G06+, A04-G07, A04-G08+</i>  <b>1994</b>
<b>A04-G03E</b>	<ul style="list-style-type: none"> <li>. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.</li> </ul> <p style="text-align: right;">pre-1970</p>	<b>A04-G</b>	<b>Others</b> e.g. from hexene-1, norbornene, vinyl cyclohexane; including polyalkenamers i.e. involving ring opening without affecting C-C double bond.
<b>A04-G03E1</b>	<ul style="list-style-type: none"> <li>.. <b>Films; packaging; (electro)photographic; medical, dental, cosmetic and veterinary; household, office</b> Prior to 1970 see A04-G03E.</li> </ul> <p style="text-align: right;">1970</p>	<b>A04-H</b>	<b>ADDITION TYPE RESINS</b>  <b>2002</b>
<b>A04-G04</b>	<b>Butene-1 (co)polymers</b>	<b>A04-H00H</b>	<b>General addition type resin</b>  <b>2002</b>
<b>A04-G05</b>	<b>Isobutene (co)polymers</b> Excluding with isoprene for which see A04-G05A.		
<b>A04-G05A</b>	<ul style="list-style-type: none"> <li>. <b>Butyl rubber</b> i.e. isobutene-isoprene copolymer. Prior to 1970 see A04-G05.</li> </ul> <p style="text-align: right;">1970</p>		
<b>A04-G06</b>	<b>Ethylene copolymers with olefin-1</b> Including LLDPE and terpolymers such as EPDM.		
<b>A04-G06A</b>	<ul style="list-style-type: none"> <li>. <b>Production, compositions</b> Prior to 1970 see A04-G06.</li> </ul> <p style="text-align: right;">1970</p>		
<b>A04-G07</b>	<b>Ethylene with vinyl acetate (EVA)</b>		
<b>A04-G08</b>	<b>Ethylene copolymers</b> Excluding A04-G06+, A04-G07. See also A04-G11.		

## A05 CONDENSATION POLYMERS

<b>A05-A</b>	<b>EPOXY RESINS</b> i.e. any compound containing 2 or more epoxy groups. For polymers containing epoxy groups by modification see A10-E+ e.g. epoxidised novolacs see A10-E08C. For acrylated epoxy resins (vinyl ester resins) see A10-E07B.	
<b>A05-A01</b>	<b>General</b> Applied during the pre-70 (pre-CPI) accession number range 60,000P - 79,999P and was then discontinued.	<b>1966-1967</b>
<b>A05-A01A</b>	<b>. Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	<b>pre-1970</b>
<b>A05-A01B</b>	<b>. Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	<b>pre-1970</b>
<b>A05-A01B1</b>	<b>.. With crosslinking agent or system</b> Prior to 1986 see A05-A01B.	<b>1986</b>
<b>A05-A01C</b>	<b>. Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	<b>pre-1970</b>
<b>A05-A01D</b>	<b>. Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	<b>pre-1970</b>
<b>A05-A01E</b>	<b>. Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	<b>pre-1970</b>
<b>A05-A01E1</b>	<b>.. Adhesives, coatings</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-A01E.	<b>1970-1985</b>

<b>A05-A01E2</b>	<b>.. Electrical engineering</b> Including electrical encapsulation. Prior to 1970 see A05-A01E.	<b>1970</b>
<b>A05-A01E3</b>	<b>.. Adhesives and binders</b> Prior to 1986 see A05-A01E1.	<b>1986</b>
<b>A05-A01E4</b>	<b>.. Coatings</b> Prior to 1986 see A05-A01E1.	<b>1986</b>
<b>A05-A02</b>	<b>Glycidyl ethers of phenols</b> e.g. bisphenol-A diglycidyl ether.	
<b>A05-A03</b>	<b>Glycidyl ethers of alcohols</b> e.g. butanediol diglycidyl ether.	
<b>A05-A04</b>	<b>Other glycidyl cpds.</b> e.g. diglycidyl carboxylates; diglycidyl derivatives of amines; (co)polymers of glycidyl acrylates (with A04-F06+); polyglycidyl derivatives of isocyanuric acid.	
<b>A05-A05</b>	<b>Cycloaliphatic epoxides</b> e.g. vinyl cyclohexene diepoxide.	
<b>A05-A</b>	<b>Others</b> e.g. butadiene diepoxide.	
<b>A05-B</b>	<b>AMINOPLASTS</b> e.g. reaction products of aldehyde/ketone with amine/amide, usually involving alkylation and then polycondensation. For etherified aminoplasts e.g. alkoxyated MF see A10-E08C.	
<b>A05-B01</b>	<b>General</b>	
<b>A05-B02</b>	<b>Melamine-formaldehyde (MF) resins</b> For 'alkylated' e.g. butylated or methoxy- methylolated MF resins see A10-E08C.	
<b>A05-B03</b>	<b>Urea-formaldehyde (UF) resins</b>	
<b>A05-B04</b>	<b>Ethylene- or propylene-urea (derivatives)-formaldehyde resins</b>	
<b>A05-B</b>	<b>Others</b> e.g. dicyandiamide-, benzoguanamine-formaldehyde resins.	
<b>A05-C</b>	<b>PHENOPLASTS</b> i.e. reaction products of aldehyde/ketone with phenol(s) usually involving alkylation e.g. methylolation and then polycondensation. Includes resols and novolacs.	



<b>A05-C01</b>	<b>General</b>		
<b>A05-C01A</b>	. <b>Production, compositions</b> Prior to 1970 see A05-C01.	1970	
<b>A05-C01B</b>	. <b>Uses</b> Prior to 1986 see A05-C01.	1986	
<b>A05-C01B1</b>	.. <b>Adhesives and binders; coatings; laminates; reinforced plastics</b> Prior to 1986 see A05-C01.	1986	
<b>A05-C01B2</b>	.. <b>(Electro)photographic use</b> <i>Previous code(s): A05-C01B</i>	1994	
<b>A05-C02</b>	<b>Polyhydric phenols and any aldehyde</b> e.g. resorcinol-formaldehyde resins.		
<b>A05-C03</b>	<b>Monohydric, mononuclear phenols and formaldehyde</b> e.g. phenol-formaldehyde, cresol-formaldehyde.		
<b>A05-C03A</b>	. <b>Adhesives and binders; coatings; laminates; reinforced plastics</b> Prior to 1986 see A05-C03.	1986	
<b>A05-C04</b>	<b>Monohydric, mononuclear phenols and any other aldehyde</b>		
<b>A05-C</b>	<b>Others</b> e.g. from monohydric, polynuclear phenols.		
<b>A05-D</b>	<b>UNSATURATED LINEAR POLYMERS</b> For all non-linear unsaturated polyesters see A05-E08. A reference to polyester with no further details is assumed to be of the type A05-D02+ if used for crosslinkable /reinforced compositions or products.		
<b>A05-D01</b>	<b>General</b>		
<b>A05-D02</b>	<b>Unsaturated polyesters from unsaturated dibasic acids</b> Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts. Applied during the pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	1966-1967	
<b>A05-D02A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970	
<b>A05-D02B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970	
<b>A05-D02C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970	
<b>A05-D02D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970	
<b>A05-D02E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970	
<b>A05-D02E1</b>	.. <b>Building, civil engineering; laminates</b> Prior to 1970 see A05-D02E.	1970	
<b>A05-D</b>	<b>Others</b> e.g. unsaturated polyesters from saturated dibasic acids and unsaturated dihydric alcohols.		
<b>A05-E</b>	<b>SATURATED POLYESTERS</b> Including aromatic unsaturation, but excluding olefinic or acetylenic unsaturation. Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts. Dihydric alcohols and phenols include derivatives e.g. acetates, haloformates. Polyesters which are subsequently used for polyesterurethanes are only searchable in A05-E: if their production is novel. For all polyesterurethanes see A05-G02 except for foams when see A12-S02+. A reference to polyester with no further details is assumed to be of the type A05-E: section if used for fibres, films, paints and thermoplastic polyester mouldings.		
<b>A05-E01</b>	<b>General</b>		
<b>A05-E01A</b>	. <b>Production, compositions</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-E01.	1970-1985	

<b>A05-E01A1</b>	.. <b>Production</b> Prior to 1986 see A05-E01A.	<b>1986</b>	<b>A05-E03</b>	<b>From isophthalic acid and dihydric alcohols or phenols</b> Excluding from ring substituted isophthalic e.g. 5-sulfoisophthalic acid, for which see A05-E05. Including from copolymers of isophthalic acid and terephthalic acid.	
<b>A05-E01A2</b>	.. <b>Compositions</b> Prior to 1986 see A05-E01A.	<b>1986</b>	<b>A05-E04</b>	<b>From terephthalic acid and dihydric alcohols or phenols</b> Excluding from ring substituted terephthalic, for which see A05-E05. Applied during the pre-70 (pre-accession number range 60,001P - 79,999P and was then discontinued.	<b>1966-1967</b>
<b>A05-E01B</b>	. <b>Textiles, textile treatments</b> Prior to 1970 see A05-E01.	<b>1970</b>	<b>A05-E04A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	<b>pre-1970</b>
<b>A05-E01B1</b>	.. <b>Mechanical treatment</b> Prior to 1986 see A05-E01B.	<b>1986</b>	<b>A05-E04B</b>	. <b>Compounding</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	<b>pre-1970</b>
<b>A05-E01B2</b>	.. <b>Chemical treatment</b> Including dyeing. Prior to 1986 see A05-E01B.	<b>1986</b>	<b>A05-E04C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	<b>pre-1970</b>
<b>A05-E01B3</b>	.. <b>Specific uses</b> Prior to 1986 see A05-E01B.	<b>1986</b>	<b>A05-E04D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	<b>pre-1970</b>
<b>A05-E01C</b>	. <b>Fabrication, treatment</b> Excluding A05-E01B+. Prior to 1986 see A05-E01.	<b>1986</b>	<b>A05-E04E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	<b>pre-1970</b>
<b>A05-E01D</b>	. <b>Uses</b> Excluding A05-E01B+. Prior to 1986 see A05-E01.	<b>1986</b>	<b>A05-E05</b>	<b>From other aromatic di-carboxylic acids and dihydric alcohols or phenols</b> i.e. excluding A05-E03, A05-E04+, e.g. from 5-sulfoisophthalic acid. For saturated polyesters based on naphthalene dicarboxylic acid see A05-E05A.	
<b>A05-E01D1</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1986 see A05-E01.	<b>1986</b>	<b>A05-E05A</b>	. <b>From naphthalene dicarboxylic acid and dihydric alcohol or phenol</b>	<b>1994</b>
<b>A05-E01D2</b>	.. <b>Electrical engineering</b> Prior to 1986 see A05-E01.	<b>1986</b>		<i>Previous code(s): A05-E05</i>	
<b>A05-E01D3</b>	.. <b>Films; packaging</b> Prior to 1986 see A05-E01.	<b>1986</b>			
<b>A05-E02</b>	<b>From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols; hydroxyacids; or lactones and glycolides</b>				
<b>A05-E02A</b>	. <b>From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols</b>	<b>2005</b>			
<b>A05-E02B</b>	. <b>From hydroxyacids</b> e.g. polyhydroxybutyrate, polyhydroxyvalerate.	<b>2005</b>			
<b>A05-E02C</b>	. <b>From lactones and glycolides</b>	<b>2005</b>			

<b>A05-E06</b>	<b>Polycarbonates; polythiocarbonates</b>		<b>A05-F01B</b>	<b>. Compositions</b> Applied from 80,000P (pre-CPI) to the end of 1985 and was then discontinued. Prior to 80,000P see A05-F01.	<b>1986</b>		
<b>A05-E06A</b>	<b>. Production; compositions</b> Prior to 1986 see A05-E06.	<b>1986</b>				<b>1967-1985</b>	
<b>A05-E06B</b>	<b>. Uses</b> Prior to 1986 see A05-E06.	<b>1986</b>	<b>A05-F01B1</b>	<b>.. With additives</b> Including polymeric. Prior to 1986 see A05-F01B.			<b>1986</b>
<b>A05-E07</b>	<b>Polyesteramides; polyesterimides</b> With A05-J01+.		<b>A05-F01B2</b>	<b>.. With polymers</b> i.e. mixture. Prior to 1986 see A05-F01B.			<b>1986</b>
<b>A05-E08</b>	<b>Alkyd resins</b> All types including glyptal resins, non-linear polyesters, drying oil or non-drying oil derived polyesters. Prior to 1970 see A05-E.	<b>1970</b>	<b>A05-F01C</b>	<b>. Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01.			<b>pre-1970</b>
<b>A05-E09</b>	<b>Polyetheresters</b> e.g. Hytrel®. Prior to 1986 see the appropriate A05-E: section and A05-H: section e.g. for production of polybutylene-terephthalate polytetramethylene glycol (Hytrel®) see A05-E04A and A05-H05.	<b>1986</b>	<b>A05-F01D</b>	<b>. Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01.			<b>pre-1970</b>
<b>A05-E10</b>	<b>Polyarylates</b> Prior to 1986 see A05-E01+, A05-E03, A05-E04+ and A05-E05.	<b>1986</b>	<b>A05-F01E</b>	<b>. Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01.			<b>pre-1970</b>
<b>A05-E</b>	<b>Others</b> e.g. from dibasic non-carboxylic acids e.g. benzenedisulfonic acid; from heterocyclic diacids.		<b>A05-F01E1</b>	<b>.. Textiles</b> Prior to 1970 see A05-F01E.			<b>1970</b>
<b>A05-F</b>	<b>POLYAMIDES</b> Contain -CON(R)- groups in the backbone of the repeat unit. Including from S containing acids. Excluding polyesteramides for which see A05-E07. Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts.		<b>A05-F01E2</b>	<b>.. Electrical and mechanical engineering</b> Prior to 1970 see A05-F01E.			<b>1970</b>
<b>A05-F01</b>	<b>General</b> Applied during the pre-1970 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued.	<b>1966-1967</b>	<b>A05-F01E3</b>	<b>.. Films; packaging; medical, dental, cosmetic and veterinary; (electro) photographic</b> Prior to 1986 see A05-F01E.			<b>1986</b>
<b>A05-F01A</b>	<b>. Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01.	<b>pre-1970</b>	<b>A05-F02</b>	<b>From aliphatic dibasic acid(s) and any diamine(s)</b> e.g. nylon 6:6 and nylon 6:10.			
			<b>A05-F03</b>	<b>From lactam(s) and/or amino acid(s)</b> e.g. nylon 6, nylon 11.			
			<b>A05-F04</b>	<b>Polyaminoamides from polymerised vegetable oil acids and polyamino components (Versamids®)</b>			

<b>A05-F05</b>	<b>Polyamides from aromatic dicarboxylic acid(s) and aromatic diamine(s) only</b> Including aramids, Kevlar®. Prior to 1986 see A05-F.		<b>A05-G01E2</b>	<b>.. Electrical and mechanical engineering</b> Prior to 1986 see A05-G01E.	<b>1986</b>
		<b>1986</b>	<b>A05-G02</b>	<b>From polyester polyol(s) and isocyanate(s)</b> For polyester polyols do not search code(s) from A05-E.; see note under Polyesters.	
<b>A05-F</b>	<b>Others</b> e.g. from di-isocyanates and di-acids; polyamideimides (with A05-J01+).		<b>A05-G03</b>	<b>From polyether polyol(s) and isocyanate(s)</b> For polyether polyols do not search code(s) from A05-H.; see note under Polyethers.	
<b>A05-G</b>	<b>POLYURETHANES</b> Contain -NHCOO- groups in the backbone of the repeat unit. For polyurethane foams see A12-S02+ only. Includes polythiourethanes. For polyurethane polyurea see also A05-J04. Isocyanates may be blocked isocyanates (with A02-C).		<b>A05-G04</b>	<b>From monomeric polyols and isocyanate</b> e.g. from butanediol.	
<b>A05-G01</b>	<b>General</b> Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	<b>1966-1967</b>	<b>A05-G</b>	<b>Others</b> e.g. from polybutadiene diol and isocyanate(s); from bis-haloformates and diamines.	
<b>A05-G01A</b>	<b>. Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01.	<b>pre-1970</b>	<b>A05-H</b>	<b>POLYETHERS</b> Polyethers which are subsequently used for polyetherurethanes are only searchable in A05-H: if their production is novel. For all polyetherurethanes see A05-G03 except for foams when see A12-S02+. For end modified polyalkylene oxides see A10-E+ e.g. for polyoxyethylene nonylphenol ether see A10-E08B.	
<b>A05-G01B</b>	<b>. Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01.	<b>pre-1970</b>	<b>A05-H01</b>	<b>General</b>	
<b>A05-G01C</b>	<b>. Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01.	<b>pre-1970</b>	<b>A05-H01A</b>	<b>. Production, compositions</b> Prior to 1986 see A05-H01.	<b>1986</b>
<b>A05-G01D</b>	<b>. Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01.	<b>pre-1970</b>	<b>A05-H01B</b>	<b>. Uses</b> Prior to 1986 see A05-H01.	<b>1986</b>
<b>A05-G01E</b>	<b>. Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01.	<b>pre-1970</b>	<b>A05-H02</b>	<b>Oxymethylene (co)polymers (acetal resin)</b> Including formaldehyde homologues e.g. trioxane.	
<b>A05-G01E1</b>	<b>.. Coatings</b> Prior to 1970 see A05-G01E.	<b>1970</b>	<b>A05-H02A</b>	<b>. Production, compositions</b> Prior to 1970 see A05-H02.	<b>1970</b>
			<b>A05-H03</b>	<b>Oxyethylene (co)polymers</b>	
			<b>A05-H03A</b>	<b>. Production, compositions general</b> Prior to 1970 see A05-H03.	<b>1970</b>
			<b>A05-H03A1</b>	<b>.. Oxyethylene homopolymer production</b>	<b>2002</b>
			<b>A05-H03A2</b>	<b>.. Copolymer production</b>	<b>2002</b>

<b>A05-H03A3</b>	<b>.. Oxyethylene homopolymer compositions</b>	2002	<b>A05-J03</b>	<b>Polyanhydrides</b>	
<b>A05-H03A4</b>	<b>.. Copolymer compositions</b>	2002	<b>A05-J04</b>	<b>Polyureas; polythioureas</b> e.g. from polyamines and polyisocyanates.	
<b>A05-H04</b>	<b>Oxypropylene (co)polymers</b> Including epihalohydrin polymers.		<b>A05-J05</b>	<b>Polysulfides; polyepisulfides (polythioethers, thiokols); polyene-polythiol polymers</b>	
<b>A05-H04A</b>	<b>. Production, compositions general</b>	2002	<b>A05-J05A</b>	<b>. Poly(arylene sulfides)</b> e.g. polyphenylene sulfide.	1994
<b>A05-H04A1</b>	<b>.. Oxypropylene homopolymer production</b>	2002		<i>Previous code(s): A05-J05</i>	
<b>A05-H04A2</b>	<b>.. Copolymer production</b>	2002	<b>A05-J06</b>	<b>Polysulfones</b> All types including polyethers containing sulfone group(s) from 1986. For earlier references see A05-H07.	
<b>A05-H04A3</b>	<b>.. Oxypropylene homopolymer compositions</b>	2002	<b>A05-J07</b>	<b>Polyalkyleneimines</b> e.g. polyethylene imine.	
<b>A05-H04A4</b>	<b>.. Copolymer compositions</b>	2002	<b>A05-J08</b>	<b>Aldehyde or ketone condensates</b> Excluding A05-B-; A05-C-; A05-H02+; e.g. naphthalenesulfonic acid-formaldehyde condensates, furfural resins. Prior to 1970 see A05-J.	1970
<b>A05-H05</b>	<b>From furans and derivatives</b> e.g. polytetrahydrofuran.		<b>A05-J09</b>	<b>Amine-epihalohydrin polymers; polycarbodiimides, polyhydrazides</b> Including polybrene. Prior to 1977 see A05-J.	1977
<b>A05-H06</b>	<b>Phenoxy resins</b> i.e. from dihydric phenols, including bisphenols, and epihalohydrins; excluding A05-A02.		<b>A05-J10</b>	<b>Polyketones</b> Including poly(ether) ether ketones e.g. PEEK®. Prior to 1986 see A05-J and A05-H07 for structures such as (OCC6H4COOC6H4) <sub>n</sub> and (OC6H4OC6H4COC6H4) <sub>n</sub> respectively.	1986
<b>A05-H07</b>	<b>Aromatic polyethers</b> Excluding A05-H06.		<b>A05-J11</b>	<b>Polyimines</b> Excluding polyalkylene imines for which see A05-J07; A05-J09; e.g. polyamine-polymaleimide resins, polyanilines, biguanide polymers. Prior to 1986 see A05-J.	1986
<b>A05-H07A</b>	<b>. Polyarylene ethers</b>	1994		<i>Previous code(s): A05-H07</i>	
<b>A05-H</b>	<b>Others</b> e.g. Polyglycerol		<b>A05-J12</b>	<b>Polypyrroles and polythiophenes</b> Optionally substituted.	1994
<b>A05-J</b>	<b>OTHER POLYMERS</b>			<i>Previous code(s): A05-J</i>	
<b>A05-J01</b>	<b>Polyimides</b> e.g. formed from a tetracarboxylic acid and a diamine. Including polyamic acid. For polyamideimides see also A05-F.		<b>A05-J13</b>	<b>(Methylene)Arylene polymer</b> Includes e.g. poly-p-xylylene, polyfluorenes, xylok resins (phenol-aralkyl resin).	2022
<b>A05-J01A</b>	<b>. Production, compositions</b> Prior to 1986 see A05-J01.	1986			
<b>A05-J01B</b>	<b>. Uses</b> Prior to 1986 see A05-J01.	1986			
<b>A05-J02</b>	<b>Heterocyclic polymers produced by cyclisation during polycondensation</b> Including: e.g. polyhydantoins, polyparabanic acid, polybenzimidazoles, polyisocyanurates, polycyanurates, polyoxazoli(di)nes, polydopamine. Excluding polyimides, for which code from A05-J01+.				

<b>A05-J</b>	<b>Others</b> Excluding A05-A01 to A05-J13; e.g.furan resins (from furfuryl alcohol), Friedel-Crafts resins, poly- p-xylylene and phenol- terpene resins.
<b>A05-K</b>	<b>CONDENSATION TYPE RESINS</b> 2002
<b>A05-K00K</b>	<b>General condensation type resin</b> 2002

## A06 INORGANIC POLYMERS

Natural inorganic polymers such as silicates are not indexed in section A.

<b>A06-A</b>	<b>SILICON POLYMERS</b> Including silicones, polysiloxanes, polysilazanes.
<b>A06-A</b>	<b>General</b> Applied during the pre-1970 (pre- CPI) accession number range 60,001P - 79,999P and was then discontinued. <b>1966-1967</b>
<b>A06-A00A</b>	<b>. Production</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. <b>pre-1970</b>
<b>A06-A00B</b>	<b>. Compositions</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A <b>pre-1970</b>
<b>A06-A00C</b>	<b>. Fabrication</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. <b>pre-1970</b>
<b>A06-A00D</b>	<b>. Treatment</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. <b>pre-1970</b>
<b>A06-A00E</b>	<b>. Uses</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. <b>pre-1970</b>
<b>A06-A00E1</b>	<b>.. Adhesives and binders; coatings, textile treatment</b> Prior to 1970 see A06-A00E. <b>1970</b>
<b>A06-A00E2</b>	<b>.. Chemical, electrical and mechanical engineering</b> Prior to 1970 see A06-A00E. <b>1970</b>
<b>A06-A00E3</b>	<b>.. Medical, dental, cosmetic and veterinary</b> Prior to 1986 see A06-A00E. <b>1986</b>

<b>A06-A00E4</b>	<b>.. (Electro)photographic; printing; optical</b> Prior to 1986 see A06-A00E.	<b>1986</b>
<b>A06-B</b>	<b>PHOSPHORUS POLYMERS</b>	
<b>A06-B</b>	<b>Phosphorus polymers</b> i.e. Phosphorus present in repeat unit and not by modification e.g. polyphosphazenes.	
<b>A06-C</b>	<b>BORON POLYMERS</b>	
<b>A06-C</b>	<b>Boron polymers</b> i.e. Boron present in repeat unit and not by modification e.g. polycarboranes.	
<b>A06-D</b>	<b>METAL OR METALLOID CONTAINING POLYMERS</b>	
<b>A06-D01</b>	<b>Alum(in)oxanes</b>  <i>Previous code(s): A06-D</i>	<b>1994</b>
<b>A06-D</b>	<b>Metal or metalloid containing polymers</b> i.e. metal(loid) in repeat unit and not by modification; e.g. polygermanates, polytitanates.	

## **A07 POLYMER BLENDS, AQUEOUS DISPERSIONS**

<b>A07-A</b>	<b>MIXTURES OF POLYMERS</b> Used for genuine mixtures only and not for polymeric additives. N.B. Natural polymers are those coded in A03; addition polymers are those coded in A04; condensation polymers are those coded in A05; and A06:.	
<b>A07-A</b>	<b>Mixtures</b> Applied from the start of Plasdoc to the end of 1969 and was then discontinued.	<b>1966-1969</b>
<b>A07-A01</b>	<b>Containing natural polymers</b> Excluding natural rubber for which see A07-A02A. Prior to 1970 see A07-A.	<b>1970</b>
<b>A07-A01A</b>	<b>. Containing tar, pitch, bitumen and/or petroleum resins</b> Prior to 1986 see A07-A01.	<b>1986</b>
<b>A07-A02</b>	<b>Containing addition (co)polymers only</b> The following sub-divisions are hierarchical e.g. a PVC-polyolefin mixture is coded A07-A02B only. Prior to 1970 see A07-A.	<b>1970</b>
<b>A07-A02A</b>	<b>. From diolefinic monomers or natural rubber</b> Prior to 1977 see A07-A02.	<b>1977</b>
<b>A07-A02A1</b>	<b>.. Containing butadiene (co)polymers</b> Prior to 1986 see A07-A02A.	<b>1986</b>
<b>A07-A02B</b>	<b>. From nitrogen or halogen containing monoolefinic monomers</b> Prior to 1977 see A07-A02.	<b>1977</b>
<b>A07-A02C</b>	<b>. From aliphatic substituted monoolefinic monomers not containing nitrogen or halogen</b> Prior to 1977 see A07-A02.	<b>1977</b>
<b>A07-A02D</b>	<b>. From monoolefinic aliphatic hydrocarbons</b> No other polymer type in blend. Prior to 1977 see A07-A02.	<b>1977</b>

<b>A07-A03</b>	<b>Containing condensation polymers only</b> Prior to 1970 see A07-A.	<b>1970</b>	<b>A07-B01</b>	<b>Rubber latexes</b> Natural or synthetic. Prior to 1970 see A07-B.	<b>1970</b>
<b>A07-A03A</b>	. <b>Containing saturated polyester and/or polycarbonate</b> Prior to 1986 see A07-A03.	<b>1986</b>	<b>A07-B02</b>	<b>Acrylic polymer dispersions</b> Prior to 1977 see A07-B.	<b>1977</b>
<b>A07-A03B</b>	. <b>Containing epoxy resin</b> Prior to 1986 see A07-A03.	<b>1986</b>	<b>A07-B03</b>	<b>Other addition polymer dispersions</b> Prior to 1977 see A07-B.	<b>1977</b>
<b>A07-A03C</b>	. <b>Containing polyamide, polyurethane and/or polyether</b> Prior to 1986 see A07-A03.	<b>1986</b>	<b>A07-B04</b>	<b>Natural and/or condensation polymer dispersions</b> Prior to 1977 see A07-B.	<b>1977</b>
<b>A07-A03D</b>	. <b>Containing unsaturated polyester, alkyd, aminoplast and/or phenoplast</b> Prior to 1986 see A07-A03.	<b>1986</b>			
<b>A07-A03E</b>	. <b>Other condensation polymer(s)</b>	<b>2020</b>			
<b>A07-A04</b>	<b>Containing mixtures of addition and condensation polymers</b> Prior to 1970 see A07-A.	<b>1970</b>			
<b>A07-A04A</b>	. <b>Epoxy resin</b> Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A04B</b>	. <b>Phenoplast and/or aminoplast</b> Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A04C</b>	. <b>Unsaturated polyester</b> Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A04D</b>	. <b>Saturated polyester</b> Including alkyds. Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A04E</b>	. <b>Polyamide, polyurethane and/or polyether</b> Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A04F</b>	. <b>Other condensation polymer(s)</b> Prior to 1977 see A07-A04.	<b>1977</b>			
<b>A07-A05</b>	<b>Unspecified polymer</b>	<b>2002</b>			
<b>A07-B</b>	<b>AQUEOUS DISPERSIONS AND LATEXES</b>				
<b>A07-B</b>	<b>General</b>				



## A08 ADDITIVES

This section covers all the conventional additives or materials associated with polymers. Some of these directly affect the properties of polymers (plasticisers, antioxidants etc.) while others affect indirectly e.g. emulsifiers for emulsion polymerisation, biocides for marine paints etc. Polymeric additives (not blends for which see A07-A: section) are included. See appropriate A08-A: through A08-S: sections in addition to the appropriate polymer code(s). Coding A08-M09+ code may involve additional code from A08-R: section (e.g. A08-R03 for carbon black conductive filler) and from A09-A: section (e.g. A09-A03 for conductivity). Expanded (e.g. microballoons) fillers are coded in the appropriate code from A08-R: section. For syntactic foam see A12-W12. The starting materials, the intermediates, processes and the catalysts used in the production of non-polymeric additives are not coded.

<b>A08-A</b>	<b>STABILISERS</b>
<b>A08-A01</b>	<b>General</b> Including multi- functional e.g. one compound acting as heat and light stabiliser.
<b>A08-A01A</b>	. <b>For addition polymers</b> Prior to 1986 see A08-A01. <span style="float: right;">1986</span>
<b>A08-A01A1</b>	.. <b>For aliphatic monoolefinic (co)polymers</b> Hydrocarbon only. Prior to 1986 see A08-A01. <span style="float: right;">1986</span>
<b>A08-A01B</b>	. <b>For condensation polymers</b> Prior to 1986 see A08-A01. <span style="float: right;">1986</span>
<b>A08-A02</b>	<b>Against ionising radiation</b>
<b>A08-A03</b>	<b>Against light or UV</b>
<b>A08-A04</b>	<b>Against heat</b>
<b>A08-A04A</b>	. <b>Metal containing</b> Including boron and silicon. Prior to 1970 see A08-A04. <span style="float: right;">1970</span>
<b>A08-A05</b>	<b>Antiozonant</b>
<b>A08-A06</b>	<b>Antioxidant</b>
<b>A08-A07</b>	<b>Metal inhibitors, chelating and sequestering agents</b>
<b>A08-A</b>	<b>Others</b> e.g. viscosity stabiliser, (water) treeing/tracking stabiliser.

<b>A08-B</b>	<b>BLOWING AGENTS AND PORE FORMERS</b> For intumescent agents search the appropriate code from this section and the appropriate code from A08-F.
<b>A08-B01</b>	<b>General</b>
<b>A08-B02</b>	<b>Compounds releasing carbon dioxide</b> e.g. (bi)carbonate.
<b>A08-B03</b>	<b>Compounds releasing nitrogen</b> e.g. azobisisobutyronitrile.
<b>A08-B04</b>	<b>Volatile materials; soluble materials</b> i.e. pore formers.
<b>A08-B04A</b>	. <b>Halohydrocarbon volatile blowing agents</b> Includes perhalogenated compounds and Freons®. <span style="float: right;">1994</span>  <i>Previous code(s): A08-B04</i>
<b>A08-B04B</b>	. <b>Halogen free volatile blowing agents</b> e.g. pressurised gases, hydrocarbons. <span style="float: right;">1994</span>  <i>Previous code(s): A08-B04</i>
<b>A08-B</b>	<b>Others</b>
<b>A08-C</b>	<b>CROSSLINKERS, VULCANISERS, ACCELERATORS AND ACTIVATORS FOR ADDITION POLYMERS AND ETHYLENICALLY UNSATD. POLYMERS</b>
<b>A08-C01</b>	<b>General</b>
<b>A08-C02</b>	<b>Activators</b> e.g. ZnO.
<b>A08-C03</b>	<b>Accelerators</b> e.g. mercaptothiazoles, dithiocarbamates, guanidines, aminoaldehyde condensates.
<b>A08-C04</b>	<b>Sulphur (containing) crosslinkers</b> Excluding A08-C05.
<b>A08-C05</b>	<b>Peroxides, persalts and other oxidisers crosslinkers</b> e.g. hydroperoxides, potassium persulfate.
<b>A08-C06</b>	<b>Anti-scorch agents, cure retarders</b>
<b>A08-C07</b>	<b>Olefinically unsaturated monomeric crosslinkers</b> e.g. ethyleneglycol dimethacrylate. Prior to 1977 see A08-C. <span style="float: right;">1977</span>

<b>A08-C07A</b>	<ul style="list-style-type: none"> <li>• <b>Styrene crosslinker</b> Prior to 1986 see A08-C07.</li> </ul>	<b>1986</b>	<b>A08-E</b>	<b>DYES AND PIGMENTS</b> i.e. surface colouring agents and bulk colouring agents respectively.	
<b>A08-C08</b>	<ul style="list-style-type: none"> <li>• <b>Polymeric crosslinker</b> Prior to 1977 see A08-C.</li> </ul>	<b>1977</b>	<b>A08-E01</b>	<b>General</b> Including printing pastes.	
<b>A08-C09</b>	<ul style="list-style-type: none"> <li>• <b>Phenol, nitrogen or metal containing compounds crosslinkers</b> Excluding A08-C04, A08-C05, A08-C07, A08-C08; e.g. azobisisobutyronitrile, BF3. Prior to 1977 see A08-C.</li> </ul>	<b>1977</b>	<b>A08-E02</b>	<b>Inorganic pigments</b> Including inorganic delustrants, brighteners e.g. TiO <sub>2</sub> .	
<b>A08-C09A</b>	<ul style="list-style-type: none"> <li>• <b>Isocyanate crosslinkers</b> Excluding A08-C04, A08-C05, A08-C07 and A08-C08.  <i>Previous code(s): A08-C09</i></li> </ul>	<b>1994</b>	<b>A08-E03</b>	<b>Organic dyes</b>	
<b>A08-C10</b>	<ul style="list-style-type: none"> <li>• <b>Water crosslinker</b>  <i>Previous code(s): A08-C</i></li> </ul>	<b>1994</b>	<b>A08-E03A</b>	<ul style="list-style-type: none"> <li>• <b>Azo</b> Prior to 1970 see A08-E03.</li> </ul>	<b>1970</b>
<b>A08-C</b>	<ul style="list-style-type: none"> <li>• <b>Other crosslinkers</b> e.g. non-metallic halonium salts.</li> </ul>		<b>A08-E03A1</b>	<ul style="list-style-type: none"> <li>•• <b>Monoazo, water soluble</b> Prior to 1977 see A08-E03A.</li> </ul>	<b>1977</b>
<b>A08-D</b>	<b>CROSSLINKERS AND ACCELERATORS FOR OTHER POLYMERS</b> Excluding those covered by A08-C.		<b>A08-E03A2</b>	<ul style="list-style-type: none"> <li>•• <b>Monoazo, water insoluble</b> Prior to 1977 see A08-E03A.</li> </ul>	<b>1977</b>
<b>A08-D01</b>	<b>General</b>		<b>A08-E03A3</b>	<ul style="list-style-type: none"> <li>•• <b>Dis- and polyazo</b> Prior to 1977 see A08-E03A.</li> </ul>	<b>1977</b>
<b>A08-D02</b>	<b>Acids and anhydrides</b>		<b>A08-E03B</b>	<ul style="list-style-type: none"> <li>• <b>Anthraquinone</b> Prior to 1970 see A08-E03.</li> </ul>	<b>1970</b>
<b>A08-D03</b>	<b>Amines</b> e.g. aminophenols, imidazoles, hexamethylene tetramine, ammonium chloride, including hydrazine and hydrazides.		<b>A08-E03C</b>	<ul style="list-style-type: none"> <li>• <b>Optical brighteners</b> Including delustrants, flatt(en)ing agents. Prior to 1970 see A08-E03.</li> </ul>	<b>1970</b>
<b>A08-D04</b>	<b>Nitrogen containing compounds</b> Excluding A08-D03 ; e.g. polyamides.		<b>A08-E04</b>	<b>Organic pigments</b>	
<b>A08-D04A</b>	<ul style="list-style-type: none"> <li>• <b>(Poly)isocyanates</b> Optionally blocked. Prior to 1986 see A08-D04.</li> </ul>	<b>1986</b>	<b>A08-F</b>	<b>FLAME RETARDANTS</b> For intumescent agents search the appropriate code from this section and the appropriate code from A08-B:.	
<b>A08-D05</b>	<b>Metal containing compounds and polymers thereof</b> Including boron, phosphorus, silicon. Prior to 1986 see A08-D.	<b>1986</b>	<b>A08-F01</b>	<b>General</b>	
<b>A08-D06</b>	<ul style="list-style-type: none"> <li>• <b>Water crosslinker</b>  <i>Previous code(s): A08-D</i></li> </ul>	<b>1994</b>	<b>A08-F02</b>	<b>Antimony containing compounds</b> e.g. Sb <sub>2</sub> O <sub>3</sub> .	
<b>A08-D</b>	<ul style="list-style-type: none"> <li>• <b>Others</b> e.g. peroxides, persalts.</li> </ul>		<b>A08-F03</b>	<b>Phosphorus containing compounds</b> e.g. red phosphorus, tricresyl phosphate.	
			<b>A08-F04</b>	<b>Halogen containing compounds</b>	
			<b>A08-F04A</b>	<ul style="list-style-type: none"> <li>• <b>Polymeric</b> e.g. chlorinated polyethylene. Prior to 1977 see A08-F04.</li> </ul>	<b>1977</b>
			<b>A08-F04B</b>	<ul style="list-style-type: none"> <li>• <b>Non-polymeric aromatic or heterocyclic compounds</b> With direct halogen-ring bond(s) e.g. tetrabromo-bisphenol A. Prior to 1977 see A08-F04.</li> </ul>	<b>1977</b>

<b>A08-F04C</b>	. <b>Non-polymeric (cyclo)aliphatic compounds</b> e.g. carbon tetrabromide, hexabromocyclododecane. Prior to 1977 see A08-F04.	<b>1977</b>	<b>A08-M06</b>	<b>Viscosity modifiers</b> Excluding A08-A; including thixotropic agents.	
<b>A08-F05</b>	<b>Aluminium hydroxide</b> <i>Previous code(s): A08-F</i>	<b>1994</b>	<b>A08-M07</b>	<b>Antiblocking agents, dusting agents, slip agents</b> i.e. materials applied to polymer surfaces to reduce their adhesiveness e.g. talc. Prior to 1970 see A08-M.	<b>1970</b>
<b>A08-F</b>	<b>Others</b> Including smoke inhibitors.		<b>A08-M08</b>	<b>Prodegradants, peptising agents</b> Prior to 1977 see A08-M.	<b>1977</b>
<b>A08-M</b>	<b>MISCELLANEOUS AGENTS OR ADDITIVES</b>		<b>A08-M09</b>	<b>Agents affecting mechanical, electrical, optical, magnetic and thermal properties</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A08-M.	<b>1977-1985</b>
<b>A08-M01</b>	<b>Adhesion improvers, subbing agents, bonding aids</b> i.e. agents to improve the adhesiveness between polymer and substrate.		<b>A08-M09A</b>	. <b>Electrical, magnetic</b> Prior to 1986 see A08-M09.	<b>1986</b>
<b>A08-M01A</b>	. <b>Dyeing and printing aids, dye receptiveness improving agents, dye levellers, dye/pigment dispersants</b> Including polymeric. Prior to 1970 see A08-M01.	<b>1970</b>	<b>A08-M09A1</b>	<b>.. Carbon electroconductivity agent</b> e.g. carbon nanotubes, fullerenes, graphene. Excl: (In)organic carbon compounds. Prior to 2011 see A08-M09A.	<b>2011</b>
<b>A08-M01B</b>	. <b>Polymeric adhesion improvers</b> Prior to 1977 see A08-M01.	<b>1977</b>	<b>A08-M09B</b>	. <b>Mechanical</b> Prior to 1986 see A08-M09.	<b>1986</b>
<b>A08-M01C</b>	. <b>Acids, metal compounds adhesion improvers</b> e.g. organo-aluminium or titanium compounds. Prior to 1977 see A08-M01.	<b>1977</b>	<b>A08-M09C</b>	. <b>Optical; thermal</b> Prior to 1986 see A08-M09.	<b>1986</b>
<b>A08-M01D</b>	. <b>Silicon containing compounds adhesion improvers</b> e.g. alkoxy silanes, vinyl silanes. Prior to 1977 see A08-M01.	<b>1977</b>	<b>A08-M09C1</b>	<b>.. Carbon thermal conductivity agent</b> e.g. carbon nanotubes, fullerenes, graphene. Excl: (In)organic carbon compounds. Prior to 2011 see A08-M09C.	<b>2011</b>
<b>A08-M02</b>	<b>Antiseptic, fungicidal, animal repellents</b> e.g. tin compounds, copper compounds.		<b>A08-M10</b>	<b>Other specifically functional agents</b> Including nucleating agents. Prior to 1977 see A08-M.	<b>1977</b>
<b>A08-M03</b>	<b>Lubricants</b> e.g. silicones, metal stearates.		<b>A08-M10A</b>	. <b>Compatibility improver</b>	<b>2017</b>
<b>A08-M03A</b>	. <b>Lubricants and oiling agents for fibres and textiles</b> Prior to 1986 see A08-M03.	<b>1986</b>	<b>A08-M</b>	<b>Others</b> Includes additives of unspecified function.	
<b>A08-M03B</b>	. <b>Mould release agents; internal lubricants</b> Prior to 1986 see A08-M03.	<b>1986</b>	<b>A08-P</b>	<b>PLASTICISERS AND EXTENDERS</b>	
<b>A08-M04</b>	<b>Odorants, deodorants</b>		<b>A08-P01</b>	<b>General</b>	
<b>A08-M05</b>	<b>Tackifiers</b>				

<b>A08-P02</b>	<b>Phthalates</b>		
<b>A08-P03</b>	<b>Other aromatic acid esters</b> Excluding A08-P02; e.g. trimellitates.		
<b>A08-P04</b>	<b>(Cyclo)Aliphatic carboxylic acid esters</b> e.g. adipates, sebacates. Including cyclohexyl carboxylic acid esters.		
<b>A08-P05</b>	<b>Inorganic acid esters</b> e.g. phosphates.		
<b>A08-P06</b>	<b>Hydroxy acid esters</b> e.g. citrates.		
<b>A08-P07</b>	<b>Epoxy compounds</b> e.g. epoxidised soybean oil.		
<b>A08-P08</b>	<b>Coal tar fractions, oils, waxes, hydrocarbons</b> Excluding A08-P02 to A08-P07.		
<b>A08-P</b>	<b>Others</b> e.g. glycerine, thioethers.		
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<b>A08-R</b>	<b>FILLERS AND REINFORCING AGENTS</b>		
<b>A08-R01</b>	<b>General</b>		
<b>A08-R02</b>	<b>Asbestos</b>		
<b>A08-R03</b>	<b>Carbon</b> Including carbon black, graphite (non-fibrous).		
<b>A08-R03A</b>	. <b>Fibrous</b> Prior to 1986 see A08-R03.		1986
<b>A08-R04</b>	<b>Glass</b> Any form, including fibres, flake, powder, microspheres. See also A12-S08B.		
<b>A08-R05</b>	<b>Metal</b> Including boron, phosphorus, silicon; excluding compounds of metals.		
<b>A08-R06</b>	<b>Silica and silicates</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.		1966-1985
<b>A08-R06A</b>	. <b>Silica</b> Including SiO <sub>2</sub> , sand, quartz, white carbon, aerosil, silicic acid, diatomite. Prior to 1986 see A08-R06.		1986
<b>A08-R06B</b>	. <b>Silicates</b> Including talc, mica, kaolin, clay, zeolite, wollastonite. Prior to 1986 see A08-R06.		1986
<b>A08-R07</b>	<b>Cellulosic</b> Including wood powder/sawdust, shavings. Not to be searched for chipboard, hardboard or fibreboard, for which see A12-A04+.		
<b>A08-R08</b>	<b>Polymeric</b>		
<b>A08-R08A</b>	. <b>Fibrous polymeric fillers</b>		1994
		<i>Previous code(s): A08-R08</i>	
<b>A08-R08B</b>	. <b>Particulate polymeric fillers</b>		1994
		<i>Previous code(s): A08-R08</i>	
<b>A08-R09</b>	<b>Whiskers</b> e.g. potassium titanate. Prior to 1986 see A08-R.		1986
<b>A08-R</b>	<b>Others</b> Including metal compounds e.g. CaCO <sub>3</sub> , BaSO <sub>4</sub> .		
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<b>A08-S</b>	<b>SURFACE ACTIVE AGENTS</b> Excluding adhesion improvers, tackifiers, lubricants, antiblocking agents, for which see A08-M:.		
<b>A08-S01</b>	<b>General</b>		
<b>A08-S02</b>	<b>Solvents; swelling agents</b>		
<b>A08-S03</b>	<b>Anti-foaming agents</b>		
<b>A08-S04</b>	<b>Anti-static agents</b>		
<b>A08-S05</b>	<b>Emulsifiers; wetting agents</b>		
<b>A08-S06</b>	<b>Protective colloids</b>		
<b>A08-S07</b>	<b>Foam stabilisers; cell control agents</b> Prior to 1977 see A08-S.		1977
<b>A08-S08</b>	<b>Absorption agents; repellance agents</b> Including scale inhibitors, antifog agents. For use of polymeric repellent finishes on fibres see A12-G03 only. Prior to 1977 see A08-S.		1977
<b>A08-S09</b>	<b>Anti-settling agents</b> e.g. fumed silica.		2018
<b>A08-S</b>	<b>Others</b> Including coagulants.		

## A09 PROPERTIES, ANALYSIS, TESTING, CONTROL

<b>A09-A</b>	<b>PROPERTIES</b> Coded only where the particular property is of exceptional importance. Properties resulting from a functional additive are not coded. However, properties related to polymer structure are coded.	
<b>A09-A01</b>	<b>Non-flammability</b>	
<b>A09-A01A</b>	. <b>Thermal properties</b> Including heat stability. Prior to 1970 see A09-A01.	1970
<b>A09-A02</b>	<b>Optical properties</b> Including transparency and refractive index.	
<b>A09-A02A</b>	. <b>Liquid crystal, nematic properties</b> e.g. optically anisotropic melt. Prior to 1986 no specific code was available.	1986
<b>A09-A03</b>	<b>Electrical</b> e.g. (non)-conductivity. Including for (doped) polyacetylenes.	
<b>A09-A03A</b>	. <b>Electroluminescent property</b>	2002
<b>A09-A04</b>	<b>Magnetic properties</b>	
<b>A09-A05</b>	<b>Mechanical</b>	
<b>A09-A05A</b>	. <b>Impact strength, toughness</b> Prior to 1986 see A09-A05.	1986
<b>A09-A05B</b>	. <b>Shape-memory property</b> Includes self-healing, self-repairing. Prior to 2005 see A09-A05.	2005
<b>A09-A06</b>	<b>Dyeability, printability</b> Prior to 1977 see A09-A.	1977
<b>A09-A07</b>	<b>Biodegradability</b>	1994
	<i>Previous code(s): A09-A</i>	
<b>A09-A08</b>	<b>Absorption/adsorption properties</b>	1994
	<i>Previous code(s): A09-A</i>	
<b>A09-A09</b>	<b>Permeability properties</b> Includes semipermeability and gas barrier properties.	1994
	<i>Previous code(s): A09-A</i>	

<b>A09-A</b>	<b>Others</b> e.g. fungicidal.	
<b>A09-B</b>	<b>ANALYSIS</b>	
<b>A09-B</b>	<b>Analysis</b> i.e. of chemical constitution.	
<b>A09-C</b>	<b>TESTING</b>	
<b>A09-C</b>	<b>Testing</b> i.e. of physical properties.	
<b>A09-D</b>	<b>EQUIPMENT CONTROL, SAFETY DEVICES</b>	
<b>A09-D</b>	<b>Equipment control, safety devices</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1966-1985
<b>A09-D01</b>	<b>Moulding processes</b> i.e. involving moulds e.g. injection. Prior to 1986 see A09-D.	1986
<b>A09-D02</b>	<b>Involving extruders</b> Prior to 1986 see A09-D.	1986
<b>A09-D03</b>	<b>Others</b> Prior to 1986 see A09-D.	1986

## A10 POLYMERISATION, POLYMER MODIFICATION

Addition (co)polymerisation of alkylene oxides, lactones, lactams, alkylene-imines is coded under A10-D: section only. For microsuspension polymerisation see A10-B03 and A10-B05. For inverse phase polymerisation see A10-B02, A10-B05 and A10-B. For descaling of plant see A10-G02. For descaling additive see also A08-S08. Treatment of effluent following polymerisation is coded under A10-G.

<b>A10-A</b>	<b>NATURAL POLYMER PRODUCTION</b>	
<b>A10-A</b>	<b>Natural polymer production</b> Excluding modification of natural polymers; including petroleum resin production, extraction of natural polymers e.g. tapping of rubber trees.	
<b>A10-B</b>	<b>ADDITION (CO)POLYMERISATION</b> Excluding A10-C:.	
<b>A10-B01</b>	<b>General</b> Including equipment.	
<b>A10-B02</b>	<b>Bulk</b>	
<b>A10-B03</b>	<b>Emulsion</b>	
<b>A10-B04</b>	<b>Solution</b>	
<b>A10-B05</b>	<b>Suspension</b>	
<b>A10-B06</b>	<b>Irradiation</b>	
<b>A10-B07</b>	<b>Interfacial</b>	
<b>A10-B08</b>	<b>Oligomerisation; telomerisation</b> Including dimerisation. Prior to 1970 see A10-B.	1970
<b>A10-B</b>	<b>Others</b> e.g. gaseous phase, high pressure.	
<b>A10-C</b>	<b>ORDERED COPOLYMERISATION BY ADDITION</b>	
<b>A10-C01</b>	<b>General</b>	
<b>A10-C02</b>	<b>Block copolymerisation</b>	
<b>A10-C03</b>	<b>Graft copolymerisation</b>	
<b>A10-C03A</b>	<b>. Grafting onto formed polymeric substrates</b> Including fibres and articles. Prior to 1970 see A10-C03.	1970

<b>A10-C03B</b>	<b>. By emulsion or suspension processes</b> Prior to 1977 see A10-C03 and A10-C03A.	1977
<b>A10-C03C</b>	<b>. By solution, bulk or irradiation initiated processes</b> Prior to 1977 see A10-C03 and A10-C03A.	1977
<b>A10-D</b>	<b>CONDENSATION POLYMERISATION</b>	
<b>A10-D01</b>	<b>Interfacial</b>	
<b>A10-D02</b>	<b>Ordered cocondensation</b>	
<b>A10-D03</b>	<b>Ring opening or closure</b> Prior to 1970 see A10-D.	1970
<b>A10-D04</b>	<b>Equipment</b> Prior to 1970 see A10-D01, A10-D02 and A10-D appropriately.	1970
<b>A10-D05</b>	<b>Polyesterification</b> Includes carbonate bond formation.  <i>Previous code(s): A10-D+</i>	1994
<b>A10-D06</b>	<b>Electrolytic/oxidative polymerisation</b>  <i>Previous code(s): A10-D</i>	1994
<b>A10-D07</b>	<b>General condensation polymerization</b>	2023
<b>A10-D</b>	<b>Others</b>	
<b>A10-E</b>	<b>CHEMICAL MODIFICATION</b> Including modified polymers. Modified polymers are always searched in A10-E: Whenever the modification process is described, the unmodified polymer is additionally searchable. For imidation search both A10-E14 and A10-E17. Maleinised resins are coded A10-E23, e.g. maleinised rosin, polyisobutenyl maleic anhydride etc. Devulcanised polymer is coded A10-E. Vinyl silane modified polymer is coded A10-E03 and A10-E22A. If graft copolymerisation onto the polymer is involved, then A4-A and A10-C03+ also coded.	
<b>A10-E01</b>	<b>General</b>	
<b>A10-E02</b>	<b>Acetalisation</b> Used for polyvinyl acetal, butyral, formal and polyvinyl ketals.	

<b>A10-E03</b>	<b>Alkylation; arylation</b> i.e. formation of C-C bond. e.g. haloalkylation, aminoarylation.		<b>A10-E09</b>	<b>Hydrolysis, saponification, alcoholysis, glycolysis</b> For (partially) hydrolysed polyvinyl acetate or ethylene vinyl acetate copolymer see A10-E09A or A10-E09B+ appropriately. Including reactions of chitosan.	
<b>A10-E04</b>	<b>Dehalogenation; (de)hydrohalogenation</b>		<b>A10-E09A</b>	<b>. Polyvinyl alcohol compositions</b> Prior to 1970 see A10-E09.	<b>1970</b>
<b>A10-E04A</b>	<b>. Halogenation</b> Prior to 1986 see A10-E04.	<b>1986</b>	<b>A10-E09B</b>	<b>. Polyvinyl alcohol uses</b> Prior to 1970 see A10-E09.	<b>1970</b>
<b>A10-E05</b>	<b>Depolymerisation; degradation</b>		<b>A10-E09B1</b>	<b>.. Adhesives and binders; coatings</b> Prior to 1986 see A10-E09B.	<b>1986</b>
<b>A10-E05A</b>	<b>. Pyrolysis of waste polymeric material</b> Prior to 1977 see A10-E05.	<b>1977</b>	<b>A10-E09B2</b>	<b>.. Optical, (electro) photographic, laboratory; medical, dental, cosmetic and veterinary</b> Prior to 1986 see A10-E09B.	<b>1986</b>
<b>A10-E05B</b>	<b>. Carbonisation</b> Excluding A10-E05A. Prior to 1977 see A10-E05.	<b>1977</b>	<b>A10-E10</b>	<b>Electric discharge, ultrasonic treatment and irradiation</b> Including by UV and by ionising rays; excluding for crosslinking, for which see A11-C02B.	
<b>A10-E05C</b>	<b>. Depolymerisation to monomers or oligomers</b> Prior to 1977 see A10-E05.	<b>1977</b>	<b>A10-E11</b>	<b>Oxidation; ozonisation</b> Including dehydrogenated polymers.	
<b>A10-E06</b>	<b>Epoxidation</b> e.g. epoxidised polybutadiene. For epoxidised novolac see A10-E08C.		<b>A10-E12</b>	<b>Sulfonation or sulfohalogenation</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	<b>1966-1985</b>
<b>A10-E07</b>	<b>Esterification</b>		<b>A10-E12A</b>	<b>. Sulfonation</b> Prior to 1986 see A10-E12.	<b>1986</b>
<b>A10-E07A</b>	<b>. By unsaturated polybasic acid (or derivatives)</b> e.g. maleic acid. Prior to 1977 see A10-E07.	<b>1977</b>	<b>A10-E12B</b>	<b>. Halosulfonation</b> Prior to 1986 see A10-E12.	<b>1986</b>
<b>A10-E07B</b>	<b>. By unsaturated monobasic acid (or derivatives)</b> Including acrylated epoxy resins. Prior to 1977 see A10-E07.	<b>1977</b>	<b>A10-E13</b>	<b>Hydrogenation</b> Including reduction by other means.	
<b>A10-E07C</b>	<b>. By saturated acid (or derivatives)</b> Prior to 1977 see A10-E07.	<b>1977</b>	<b>A10-E14</b>	<b>Cyclisation</b>	
<b>A10-E08</b>	<b>Etherification</b>		<b>A10-E15</b>	<b>Amidation, amination</b> Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A10-E.	<b>1970-1976</b>
<b>A10-E08A</b>	<b>. (Cyclo)aliphatic ether of polyether containing oxyethylene and/or oxypropylene units only</b> Prior to 1977 see A10-E08.	<b>1977</b>			
<b>A10-E08B</b>	<b>. Other ethers of polyoxyalkylene glycols</b> Prior to 1977 see A10-E08.	<b>1977</b>			
<b>A10-E08C</b>	<b>. Other etherified polymers</b> Including 'alkylated' melamine, e.g. (methoxy) methylolated melamine; epoxidised phenoplasts. Prior to 1977 see A10-E08.	<b>1977</b>			

<b>A10-E16</b>	<b>Incorporation of metal atoms</b> Including boron, phosphorus and silicon. Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A10-E.	1970-1976	<b>A10-E</b>	<b>Others</b>	1977
<b>A10-E17</b>	<b>Amidation</b> Prior to 1977 see A10-E15.	1977	<b>A10-G</b>	<b>OTHER MISCELLANEOUS PROCESSES</b>	
<b>A10-E17A</b>	. <b>Amidation of epoxy resins or polyethers</b>	2002	<b>A10-G01</b>	<b>Purification and concentration of polymer</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1966-1985
<b>A10-E17B</b>	. <b>Amidation of other polymers</b>	2002	<b>A10-G01A</b>	. <b>Monomer, solvent, catalyst recovery/removal from polymer, including catalyst destruction; devolatilisation</b> Prior to 1986 see A10-G01.	1986
<b>A10-E18</b>	<b>Amination of epoxy resins or polyethers</b> Prior to 1977 see A10-E15.	1977	<b>A10-G01B</b>	. <b>Other purification and concentration of polymer</b> Prior to 1986 see A10-G01.	1986
<b>A10-E19</b>	<b>Amination of other polymers</b> Prior to 1977 see A10-E15.	1977	<b>A10-G02</b>	<b>Prevention/removal of scale on polymerisation vessels</b> Including use of additives, coatings etc. Prior to 1986 see A10-G.	1986
<b>A10-E20</b>	<b>Incorporation of phosphorus</b> Prior to 1977 see A10-E16.	1977	<b>A10-G</b>	<b>Others</b> Including cleaning of polymerisation vessels.	
<b>A10-E21</b>	<b>Incorporation of alkali(ne earth) metal</b> Including NH <sub>4</sub> <sup>+</sup> . Prior to 1977 see A10-E16.	1977			
<b>A10-E21A</b>	. <b>Natural polymers</b> Prior to 1986 see A10-E21.	1986			
<b>A10-E21B</b>	. <b>Mono- or di-carboxylic unsaturated acid (co)polymers</b> Prior to 1986 see A10-E21.	1986			
<b>A10-E22</b>	<b>Incorporation of other metal(loid)s</b> i.e. excluding A10-E20 and A10-E21+; including boron. Prior to 1977 see A10-E16.	1977			
<b>A10-E22A</b>	. <b>Incorporation of silicon</b> Prior to 1986 see A10-E22.	1986			
<b>A10-E23</b>	<b>Forming hydroxy or carboxy groups other than by hydrolysis</b> Prior to 1977 see A10-E.	1977			
<b>A10-E24</b>	<b>Nitration; urethanisation; sulfation; sulfurisation; xanthation; thio group formation</b> Including acrylated polyurethanes prepared from e.g. isocyanate terminated prepolymers and hydroxyalkyl acrylates. Prior to 1977 see A10-E.				



## A11 PROCESSING POLYMERS INCLUDING EQUIPMENT

A11-A	PRELIMINARY PROCESSES	
A11-A01	<b>Colouring, bleaching</b>	
A11-A01A	. <b>With specific compositions</b> Prior to 1970 see A11-A01.	1970
A11-A01B	. <b>Processes</b> Prior to 1970 see A11-A01.	1970
A11-A02	<b>Heating</b> Including pre-heating and drying; excluding annealing etc. for which see A11-B02+ and crosslinking for which see A11-C02+.	
A11-A02A	. <b>Heating film/sheet, divided forms</b> e.g. powders, fibre or fabric. Prior to 1977 see A11-A02.	1977
A11-A02B	. <b>Heating other forms</b> Excluding A11-A02A; e.g. moulded articles, tubes, parisons. Prior to 1977 see A11-A02.	1977
A11-A02C	. <b>Cooling</b> Excluding A11-B07D. Prior to 1977 see A11-A02.	1977
A11-A03	<b>Mixing, compounding, homogenising, blending</b>	
A11-A03A	. <b>Equipment</b> Prior to 1970 see A11-A03.	1970
A11-A04	<b>Divided forms of polymer production</b> e.g. by granulation, grinding to powders, pelleting.	
A11-A05	<b>Cutting, sawing and other machining</b> Excluding A11-A04.	
A11-A05A	. <b>Perforating, punching, slitting, drilling holes; cutting tubes and tyres</b> Prior to 1977 see A11-A05.	1977
A11-A05B	. <b>Deflashing and burr removal; cutting recesses, grooves, threads, etc., in surfaces</b> Prior to 1977 see A11-A05.	1977

A11-A05C	. <b>Cutting films and fabrics</b> e.g. during bag making. Prior to 1977 see A11-A05.	1977
A11-A06	<b>Sieving, sorting, filtering, classifying</b> Classifying, sieving, filtering of raw materials.	2022
A11-A	<b>Others</b> Including methods of feeding raw materials, degassing, vacuum hoppers.	
A11-B	FORMING PROCESSES	
A11-B01	<b>General</b>	
A11-B02	<b>Annealing, crystallising, heat-setting, orienting, drawing, fibrillating</b>	
A11-B02A	. <b>Orienting/stretching film</b> Prior to 1970 see A11-B02.	1970
A11-B02B	. <b>Orienting/stretching fibres</b> Inc: fabric. Prior to 1970 see A11-B02.	1970
A11-B02C	. <b>Heat-setting films/fibres</b> Prior to 1970 see A11-B02.	1970
A11-B02D	. <b>Crimping, bulking</b> Prior to 1977 see A11-B02C.	1977
A11-B02E	. <b>Shrinking</b> Prior to 1977 see A11-B02C.	1977
A11-B03	<b>Calendering</b>	
A11-B04	<b>Casting; slush-, dip-, and rotary moulding, general</b> Including with monomer or condensant and polymerising.	
A11-B04A	. <b>By rotational moulding, centrifugal casting</b> Prior to 1977 see A11-B04.	1977
A11-B04B	. <b>By other specific moulding methods</b> e.g. dip moulding, shell moulding; excluding A11-B04C. Prior to 1977 see A11-B04.	1977
A11-B04C	. <b>Forming films, sheets, lace</b> Prior to 1977 see A11-B04.	1977
A11-B05	<b>Coating</b> Including spreading, encapsulation.	

<b>A11-B05A</b>	<ul style="list-style-type: none"> <li>. <b>Electrodeposition, dipping</b> Search with A11-B05D if coating is dispersion, solution or paste. Including fluidised bed. Prior to 1970 see A11-B05.</li> </ul>	<b>A11-B06D</b>	<ul style="list-style-type: none"> <li>. <b>Involving other specific methods</b> e.g. by dissolution, sintering; excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>
	1970		1977
<b>A11-B05B</b>	<ul style="list-style-type: none"> <li>. <b>Coating by spraying, flocking, extrusion, general</b> Search with A11-B05D if coating is dispersion, solution or paste. Prior to 1970 see A11-B05.</li> </ul>	<b>A11-B07</b>	<b>Extrusion and coextrusion</b> Excluding coating by extrusion for which see A11-B05B2, extrusion spinning for which see A11-B15+ and extrusion foaming for which see A11-B06B.
	1970		
<b>A11-B05B1</b>	<ul style="list-style-type: none"> <li>.. <b>By spraying</b> Prior to 1986 see A11-B05B.</li> </ul>	<b>A11-B07A</b>	<ul style="list-style-type: none"> <li>. <b>Of film and sheet</b> Including inflation forming tubular film. Prior to 1970 see A11-B07.</li> </ul>
	1986		1970
<b>A11-B05B2</b>	<ul style="list-style-type: none"> <li>.. <b>By extrusion</b> Prior to 1986 see A11-B05B.</li> </ul>	<b>A11-B07B</b>	<ul style="list-style-type: none"> <li>. <b>Of tube and other profiles</b> Excluding A11-B07A. Prior to 1970 see A11-B07.</li> </ul>
	1986		1970
<b>A11-B05B3</b>	<ul style="list-style-type: none"> <li>.. <b>Spin coating</b></li> </ul>	<b>A11-B07C</b>	<ul style="list-style-type: none"> <li>. <b>Other extrusion</b> Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately.</li> </ul>
	2016		1977
<b>A11-B05C</b>	<ul style="list-style-type: none"> <li>. <b>With monomer or condensant and polymerising</b> Excluding A11-B04+; i.e. leaving a finished coating. Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	<b>A11-B07D</b>	<ul style="list-style-type: none"> <li>. <b>Associated processes</b> e.g. cooling, haul-off. Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately.</li> </ul>
	1977		1977
<b>A11-B05D</b>	<ul style="list-style-type: none"> <li>. <b>With dispersion, solution or paste</b> Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	<b>A11-B08</b>	<b>Forming</b> Including corrugating, winding strips to form tube.
	1977		
<b>A11-B05E</b>	<ul style="list-style-type: none"> <li>. <b>With powder, melt or foam</b> Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	<b>A11-B08A</b>	<ul style="list-style-type: none"> <li>. <b>Vacuum assisted forming of sheet or film</b> Prior to 1977 see A11-B08.</li> </ul>
	1977		1977
<b>A11-B05F</b>	<ul style="list-style-type: none"> <li>. <b>Encapsulation process</b> Encapsulating.</li> </ul>	<b>A11-B08B</b>	<ul style="list-style-type: none"> <li>. <b>Forming of sheet or film</b> Excluding A11-B08A. Prior to 1977 see A11-B08.</li> </ul>
	2016		1977
<b>A11-B06</b>	<b>Expanding, foaming, pore-forming</b>	<b>A11-B08C</b>	<ul style="list-style-type: none"> <li>. <b>Forming from tube or pipe</b> Including fittings. Prior to 1977 see A11-B08.</li> </ul>
			1977
<b>A11-B06A</b>	<ul style="list-style-type: none"> <li>. <b>To form specific goods</b> Prior to 1970 see A11-B06.</li> </ul>	<b>A11-B09</b>	<b>Laminating; lay-up of reinforced plastics</b> See also A12-S08+.
	1970		
<b>A11-B06B</b>	<ul style="list-style-type: none"> <li>. <b>Involving extrusion</b> Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>	<b>A11-B09A</b>	<ul style="list-style-type: none"> <li>. <b>To form specific goods</b> Prior to 1970 see A11-B09.</li> </ul>
	1977		1970
<b>A11-B06C</b>	<ul style="list-style-type: none"> <li>. <b>Involving molding</b> Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>	<b>A11-B09A1</b>	<ul style="list-style-type: none"> <li>.. <b>Involving fibrous/filament reinforcement</b> Prior to 1986 see A11-B09A.</li> </ul>
	1977		1986

<b>A11-B09A2</b>	<b>.. Involving non-fibrous material</b> Excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1986 see A11-B09A.	<b>1986</b>	<b>A11-B15B</b>	<b>. Melt</b> Prior to 1970 see A11-B15.	<b>1970</b>
<b>A11-B09B</b>	<b>. Decorative laminate production; chip-, fibre-, card-board and plywood</b> Prior to 1977 see A11-B09.	<b>1977</b>	<b>A11-B15B1</b>	<b>.. High speed melt spinning</b> <i>Previous code(s): A11-B15B</i>	<b>1994</b>
<b>A11-B09C</b>	<b>. Fibre reinforced plastics (FRP) production, filament winding, pultrusion</b> Excluding A11-B09A+. Prior to 1977 see A11-B09.	<b>1977</b>	<b>A11-B15C</b>	<b>. Solution</b> i.e. wet or dry. Prior to 1970 see A11-B15.	<b>1970</b>
<b>A11-B09D</b>	<b>. Laminating non-fibrous bodies</b> Excluding A11-B09A+; excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1977 see A11-B09.	<b>1977</b>	<b>A11-B16</b>	<b>Stereographic moulding</b> Used for processes that produce a three-dimensional polymer form by sequential polymerising or curing, usually by computer control, onto a previously polymerised or cured surface, thus "building up" a three-dimensional moulding. Also used for 3D-printing, additive manufacturing, FDM, LOM, SFF etc. See also A10-B+, A10-C+, A10-D+, A11-C02B and/or A11-C02D if appropriate.	<b>1994</b>
<b>A11-B09E</b>	<b>. Other laminating processes</b> Excluding A11-B09A+. Prior to 1977 see A11-B09.	<b>1977</b>		<i>Previous code(s): A11-B</i>	
<b>A11-B10</b>	<b>Blow molding</b> Excluding A11-B07A.		<b>A11-B17</b>	<b>Tyre manufacture</b> All processes. See also A11-C02A1 and A12-T01A.	<b>1994</b>
<b>A11-B11</b>	<b>Compression and transfer moulding</b>			<i>Previous code(s): A11-B</i>	
<b>A11-B12</b>	<b>Injection molding</b>		<b>A11-B</b>	<b>Others</b> Including insert incorporation.	
<b>A11-B12A</b>	<b>. To form specific goods</b> Prior to 1970 see A11-B12.	<b>1970</b>	<b>A11-C</b>	<b>OTHER MISCELLANEOUS PROCESSES</b> i.e. on (semi-)finished polymers.	
<b>A11-B12B</b>	<b>. Molds</b> Prior to 1977 see A11-B12 and A11-B12A appropriately.	<b>1977</b>	<b>A11-C01</b>	<b>Bonding, glueing, welding, heat-sealing, riveting</b>	
<b>A11-B12C</b>	<b>. Equipment</b> Excluding A11-B12A and A11-B12B. Prior to 1977 see A11-B12 and A11-B12A appropriately.	<b>1977</b>	<b>A11-C01A</b>	<b>. Heat sealing, welding to make specific goods</b> e.g. ultrasonic, microwave. Prior to 1970 see A11-C01.	<b>1970</b>
<b>A11-B13</b>	<b>Pressing (between flat platens)</b>		<b>A11-C01A1</b>	<b>.. Involving film, sheet; packaging</b> Prior to 1986 see A11-C01A.	<b>1986</b>
<b>A11-B14</b>	<b>Sintering</b> Excluding A11-B06D.		<b>A11-C01B</b>	<b>. Heat sealing, welding, general</b> e.g. ultrasonic, microwave. Prior to 1970 see A11-C01.	<b>1970</b>
<b>A11-B15</b>	<b>Spinning</b> Including associated processes, e.g. take-off.		<b>A11-C01C</b>	<b>. Other bonding to make specific goods</b> Prior to 1970 see A11-C01.	<b>1970</b>
<b>A11-B15A</b>	<b>. Heads, die design, spinnerettes</b> Prior to 1970 see A11-B15.	<b>1970</b>	<b>A11-C01D</b>	<b>. Other bonding, general</b> Prior to 1970 see A11-C01.	<b>1970</b>

<b>A11-C02</b>	<b>Crosslinking, curing, vulcanisation</b>		<b>A11-C04D</b>	<b>. Chemical treatment</b> Including etching. Prior to 1977 see A11-C04.	<b>1977</b>
<b>A11-C02A</b>	<b>. Rubber vulcanisation</b> Prior to 1970 see A11-C02.	<b>1970</b>	<b>A11-C04E</b>	<b>. Corona discharge, plasma treatment; irradiation</b> Prior to 1986 see A11-C04.	<b>1986</b>
<b>A11-C02A1</b>	<b>.. Tyre vulcanisation</b> Prior to 1986 see A11-C02A.	<b>1986</b>	<b>A11-C05</b>	<b>Textile processes</b> Excluding specific processes in A11-A:, A11-B: and A11-C:. Prior to 1970 no specific code was available. References may be found under A11-A, A11-B and A11-C:.	<b>1970</b>
<b>A11-C02B</b>	<b>. Crosslinking with irradiation</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02.	<b>1977</b>	<b>A11-C05A</b>	<b>. Producing fabrics</b> Prior to 1977 see A11-C05.	<b>1977</b>
<b>A11-C02C</b>	<b>. Crosslinking involving coating and/or extrusion</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02.	<b>1977</b>	<b>A11-C05A1</b>	<b>.. Melt blowing</b> <i>Previous code(s): A11-C05A</i>	<b>1994</b>
<b>A11-C02D</b>	<b>. Crosslinking involving moulding and/or foaming</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02.	<b>1977</b>	<b>A11-C05B</b>	<b>. Twisting, winding of fibres and yarns</b> Prior to 1977 see A11-C05.	<b>1977</b>
<b>A11-C03</b>	<b>Scrap recovery</b> Including retreading of tyres; reclaiming and recycling as well as use of reclaimed/recycled polymer.		<b>A11-C05C</b>	<b>. Other processing of fibres and yarns</b> Inc: mercerizing, reeling. Prior to 1977 see A11-C05.	<b>1977</b>
<b>A11-C03A</b>	<b>. Involving shredding, cutting, pulverising, granulating</b> Prior to 1986 see A11-C03.	<b>1986</b>	<b>A11-C05C1</b>	<b>.. Flash spinning</b> <i>Previous code(s): A11-C05</i>	<b>1994</b>
<b>A11-C04</b>	<b>Surface treatment</b> Including flame treatment.		<b>A11-C06</b>	<b>Ejection of mouldings; conveying, winding and storage of plastics articles</b> Prior to 1977 see A11-C.	<b>1977</b>
<b>A11-C04A</b>	<b>. Painting, printing</b> Prior to 1970 see A11-C04.	<b>1970</b>	<b>A11-C07</b>	<b>Waste treatment; pollution control</b> Prior to 1977 see A11-C.	<b>1977</b>
<b>A11-C04B</b>	<b>. Metallising; coating with other materials, general</b> Prior to 1970 see A11-C04.	<b>1970</b>	<b>A11-C</b>	<b>Other miscellaneous processes</b> Including repair of articles (excluding retreading of tyres), sterilisation, wire insulation removal, cleaning of polymer handling/forming/ processing plant; excluding cleaning of polymerisation vessels for which see A10-G.	
<b>A11-C04B1</b>	<b>.. Metallising</b> Prior to 1986 see A11-C04B.	<b>1986</b>			
<b>A11-C04B2</b>	<b>.. Coating with other materials</b> Excluding A11-C04B1. Prior to 1986 see A11-C04B.	<b>1986</b>			
<b>A11-C04C</b>	<b>. Embossing</b> Prior to 1977 see A11-C04.	<b>1977</b>			

## A12 POLYMER APPLICATIONS

Where the polymer use as an adhesive and/or coating applies to a specific use in any other section (A12-C: through A12-W:), then the appropriate code from that section only is applied e.g. for bottle coatings see A12-P06A only.

<b>A12-A</b>	<b>ADHESIVES AND BINDERS</b> Excluding sealants for which see A12-R08. For binders, when a specific use of the binder is given only that use is searchable.	
<b>A12-A</b>	<b>General adhesive applications</b> i.e. unspecified compositions for general adhesive applications.	
<b>A12-A01</b>	<b>Adhesive tape</b> Excluding electrical insulation tape for which see A12-E03; including surgical tape.	
<b>A12-A01A</b>	. <b>Adhesive on a carrier (excluding tape)</b>	1994
<b>A12-A02</b>	<b>Binders for core moulds, earth consolidation</b>	
<b>A12-A03</b>	<b>Abrasive paper, grinding wheels</b> Including all abrasive compositions.	
<b>A12-A04</b>	<b>Board, general</b> Prior to 1970 see A12-A.	1970
<b>A12-A04A</b>	. <b>Decorative laminate; decorative board</b> Prior to 1977 see A12-A04.	1977
<b>A12-A04B</b>	. <b>Chip-, particle- or fibre-board</b> Prior to 1977 see A12-A04.	1977
<b>A12-A04C</b>	. <b>Other cellulosic products</b> Including plywood. Prior to 1977 see A12-A04.	1977
<b>A12-A04D</b>	. <b>Laminates, otherwise unspecified</b>	2002
<b>A12-A05</b>	<b>Adhesive and binder compsns.</b> Excluding A12-A02, A12-A03 and A12-A04+; this is only for general adhesive and binder applications. When a specific use is given, only that use is searchable. Prior to 1970 see A12-A.	1970
<b>A12-A05A</b>	. <b>Natural polymer, natural rubber or diene rubber based</b> Prior to 1970 see A12-A.	1970

<b>A12-A05B</b>	. <b>Addition polymer based</b> Excluding diene rubber. Prior to 1970 see A12-A.	1970
<b>A12-A05B1</b>	.. <b>Acrylic</b> Prior to 1986 see A12-A05B.	1986
<b>A12-A05B2</b>	.. <b>Polyolefins</b> Monoolefinic hydrocarbon; including ethylene-vinyl acetate copolymer. Prior to 1986 see A12-A05B.	1986
<b>A12-A05B3</b>	.. <b>Vinyl halide and/or vinyl carboxylate (co)polymers</b> Excluding ethylene-vinyl acetate copolymer for which see A12-A05B2. Prior to 1986 see A12-A05B.	1986
<b>A12-A05C</b>	. <b>Epoxy resin based</b> Prior to 1970 see A12-A.	1970
<b>A12-A05D</b>	. <b>Aminoplast or phenoplast based</b> Prior to 1977 see A12-A05.	1977
<b>A12-A05E</b>	. <b>Polyester based</b> Prior to 1977 see A12-A05.	1977
<b>A12-A05F</b>	. <b>Polyurethane or polyurea based; other resins from isocyanates</b> Prior to 1977 see A12-A05.	1977
<b>A12-B</b>	<b>COATINGS AND PAINTS</b> Excluding textile finishes for which see A12-G+; including polishes. The codes A12-B01+ are applied when the substrate is specified. The codes A12-B01, A12-B01A and A12-B01B are applied when neither the polymer nor the substrate is specified. Search only the substrate on which the coating is directly applied.	
<b>A12-B01</b>	<b>General</b>	
<b>A12-B01A</b>	. <b>Emulsion paints, latex paints, water based lacquers, general</b> Prior to 1970 see A12-B01.	1970
<b>A12-B01B</b>	. <b>Varnishes, solvent-based lacquers, general</b> Prior to 1970 see A12-B01.	1970

<b>A12-B01C</b>	<ul style="list-style-type: none"> <li>• <b>Inorganic polymers, including silicon polymers; diene or polyene polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B01X</b>	<ul style="list-style-type: none"> <li>• <b>General condensation polymer coating</b> Indexed for the generic case and where three or more codes are required from the A12-B01+ hierarchy. <span style="float: right;">1994</span>  <i>Previous code(s): A12-B01+</i></li> </ul>
<b>A12-B01D</b>	<ul style="list-style-type: none"> <li>• <b>Natural polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B02</b>	<b>Fibres, cloth and felts</b> Excluding finishes for which see A12-G: section or A12-S05S.
<b>A12-B01E</b>	<ul style="list-style-type: none"> <li>• <b>Acrylic polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B02A</b>	<ul style="list-style-type: none"> <li>• <b>Leathercloth, synthetic leather</b> Prior to 1970 see A12-B02. <span style="float: right;">1970</span></li> </ul>
<b>A12-B01F</b>	<ul style="list-style-type: none"> <li>• <b>Vinyl carboxylate or halogen containing addition polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B02B</b>	<ul style="list-style-type: none"> <li>• <b>Polymer-bonded non-woven fabrics</b> Prior to 1970 see A12-B02. <span style="float: right;">1970</span></li> </ul>
<b>A12-B01G</b>	<ul style="list-style-type: none"> <li>• <b>Other addition polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B03</b>	<b>Paper, cardboard</b> Excluding for use in paper making for which see A12-W06+.
<b>A12-B01H</b>	<ul style="list-style-type: none"> <li>• <b>Polyesters</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B03A</b>	<ul style="list-style-type: none"> <li>• <b>Compositions</b> Prior to 1970 see A12-B03. <span style="float: right;">1970</span></li> </ul>
<b>A12-B01J</b>	<ul style="list-style-type: none"> <li>• <b>Phenoplasts or aminoplasts</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B04</b>	<b>On metal</b> Excluding on electric wire, for which see A12-E02+.
<b>A12-B01K</b>	<ul style="list-style-type: none"> <li>• <b>Polyurethanes</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B04A</b>	<ul style="list-style-type: none"> <li>• <b>Compositions</b> Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A12-B04. <span style="float: right;">1970-1976</span></li> </ul>
<b>A12-B01L</b>	<ul style="list-style-type: none"> <li>• <b>Epoxy resins</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. <span style="float: right;">1977</span></li> </ul>	<b>A12-B04B</b>	<ul style="list-style-type: none"> <li>• <b>Produced by specific techniques</b> Including non-resinous pretreatment. Prior to 1977 see A12-B04A. <span style="float: right;">1977</span></li> </ul>
<b>A12-B01V</b>	<ul style="list-style-type: none"> <li>• <b>Other condensation polymers</b> Prior to 2006 see A12-B01X. <span style="float: right;">2006</span></li> </ul>	<b>A12-B04C</b>	<ul style="list-style-type: none"> <li>• <b>Using natural, inorganic or condensation resins</b> Prior to 1977 see A12-B04A. <span style="float: right;">1977</span></li> </ul>
<b>A12-B01W</b>	<ul style="list-style-type: none"> <li>• <b>General addition polymer coating</b> Indexed for the generic case or when three or more codes are required from the A12-B01+ hierarchy. <span style="float: right;">1994</span>  <i>Previous code(s): A12-B01+</i></li> </ul>	<b>A12-B04D</b>	<ul style="list-style-type: none"> <li>• <b>Using acrylic resins</b> Prior to 1977 see A12-B04A. <span style="float: right;">1977</span></li> </ul>
		<b>A12-B04E</b>	<ul style="list-style-type: none"> <li>• <b>Using vinyl carboxylate or halogen containing addition polymers</b> Prior to 1977 see A12-B04A. <span style="float: right;">1977</span></li> </ul>
		<b>A12-B04F</b>	<ul style="list-style-type: none"> <li>• <b>Using other addition polymers</b> Prior to 1977 see A12-B04A. <span style="float: right;">1977</span></li> </ul>

<b>A12-B05</b>	<b>On glass; glass fibre</b> Excluding glass fibre reinforced for which see A12-S08+; Including on glass optical fibre (with A12-L03A). Prior to 1970 see A12-B.	1970	<b>A12-C04</b>	<b>Footwear</b> Including laces; excluding socks, hosiery, for which see A12-C03.	
<b>A12-B06</b>	<b>On natural leather</b> Prior to 1970 see A12-B.	1970	<b>A12-D</b>	<b>HOUSEHOLD AND OFFICE FITTINGS OR ACCESSORIES</b>	
<b>A12-B07</b>	<b>On polymers</b> Excluding on fibres for which see A12-B02+ or A12-G+. Prior to 1970 see A12-B.	1970	<b>A12-D00D</b>	<b>General household/office application</b> Indexed for the generic case and where three or more codes are required from the A12-D+ hierarchy.	1994
<b>A12-B07A</b>	. <b>On films</b> Optionally laminated. Prior to 1977 see A12-B07.	1977	<b>A12-D01</b>	<b>Furniture and soft furnishings</b> Including mattresses, bedding, draperies.	
<b>A12-B07B</b>	. <b>On foams</b> Prior to 1977 see A12-B07.	1977	<b>A12-D02</b>	<b>Carpets and (foam) underlays</b>	
<b>A12-B07C</b>	. <b>On tubes, cables or other profiles</b> Prior to 1977 see A12-B07.	1977	<b>A12-D03</b>	<b>Kitchenware</b> Including brushes, boil-in-bag food packs, cooking utensils.	
<b>A12-B08</b>	<b>On other inorganic material</b> e.g. concrete, ceramics, stone. Prior to 1977 see A12-B.	1977	<b>A12-D04</b>	<b>Other domestic</b> e.g. refrigerators.	
<b>A12-B09</b>	<b>On wood or other plant derived material</b> Including seeds, coal dust. Prior to 1977 see A12-B.	1977	<b>A12-D05</b>	<b>Office</b>	
<b>A12-B</b>	<b>Other specific coatings</b> e.g. on foods, medical tablets.		<b>A12-D05A</b>	. <b>Pressure sensitive materials</b> e.g. carbon(-less) paper, typewriter ribbon. Prior to 1986 see A12-D05.	1986
<b>A12-C</b>	<b>CLOTHING AND FOOTWEAR</b>		<b>A12-D05B</b>	. <b>Writing devices and inks</b> Prior to 1986 see A12-D05.	1986
<b>A12-C00C</b>	<b>Clothing general</b>	2002	<b>A12-D</b>	<b>Others</b> e.g. credit cards.	
<b>A12-C01</b>	<b>Foamback fabrics and garments</b>		<b>A12-E</b>	<b>ELECTRICAL ENGINEERING</b>	
<b>A12-C02</b>	<b>Safety clothing</b> Excluding footwear; including sunglasses.		<b>A12-E01</b>	<b>General</b> Including general insulating compositions.	
<b>A12-C02A</b>	. <b>Gloves</b>  <i>Previous code(s): A12-C02</i>	1994	<b>A12-E01A</b>	. <b>Electromagnetic screening</b>  <i>Previous code(s): A12-E+</i>	1994
<b>A12-C02B</b>	. <b>Helmets</b>  <i>Previous code(s): A12-C02</i>	1994	<b>A12-E02</b>	<b>Cable and wire insulation or coating</b>	
<b>A12-C02C</b>	. <b>Protective masks</b> Includes surgical/medical masks (with A12-V03C1).	2022	<b>A12-E02A</b>	. <b>Compositions</b> Prior to 1970 see A12-E02.	1970
<b>A12-C03</b>	<b>Other clothing</b> Including (slide)fasteners.		<b>A12-E02B</b>	. <b>Fabrication, treatment</b> Prior to 1986 see A12-E02.	1986
			<b>A12-E03</b>	<b>Insulation tape</b>	
			<b>A12-E04</b>	<b>Potting compounds, encapsulating compositions and like insulation</b>	
			<b>A12-E05</b>	<b>Insulating cases and bodies (moulded or cast)</b>	

<b>A12-E06</b>	<b>Batteries, accumulators, fuel cells</b> Prior to 1970 see A12-E and A12-E05 appropriately.	<b>1970</b>	<b>A12-E09</b>	<b>Electrolytic, electrochemical, or electrophoresis cells</b> Including parts thereof e.g. electrodes. Prior to 1977 see A12-E.	<b>1977</b>
<b>A12-E06A</b>	. <b>Electrodes</b> Prior to 1986 see A12-E06.	<b>1986</b>	<b>A12-E10</b>	<b>Heat and temperature uses</b> e.g. temperature measurement, heating materials, heat sensitive materials. Prior to 1977 see A12-E.	<b>1977</b>
<b>A12-E06B</b>	. <b>Separators, membranes</b> Prior to 1986 see A12-E06.	<b>1986</b>	<b>A12-E11</b>	<b>Electro-optical</b> Excluding liquid crystal (devices) for which see A12-L03B; e.g. lamps. Prior to 1977 see A12-E.	<b>1977</b>
<b>A12-E06C</b>	. <b>Casings, seals, sealants</b> Prior to 1986 see A12-E06.	<b>1986</b>	<b>A12-E11A</b>	. <b>Electrochromic displays including cathode ray tubes; photodiodes (LED)</b> Prior to 1986 see A12-E11.	<b>1986</b>
<b>A12-E07</b>	<b>Circuit components</b> Prior to 1970 see A12-E.	<b>1970</b>	<b>A12-E11B</b>	. <b>Photoelectric cells</b> Including solar cells. Prior to 1986 see A12-E11.	<b>1986</b>
<b>A12-E07A</b>	. <b>Printed circuits</b> Prior to 1977 see A12-E07.	<b>1977</b>	<b>A12-E11C</b>	. <b>Electroluminescent devices</b>	<b>2002</b>
<b>A12-E07B</b>	. <b>Capacitors</b> Prior to 1977 see A12-E07.	<b>1977</b>	<b>A12-E12</b>	<b>Electroacoustic</b> e.g. radios, loudspeakers, including transducers. Prior to 1977 see A12-E.	<b>1977</b>
<b>A12-E07C</b>	. <b>Semiconductor devices, integrated circuits; resistors</b> Prior to 1977 see A12-E07.	<b>1977</b>	<b>A12-E13</b>	<b>Instrumentation; measuring; testing</b> Including probes, sensors, detectors. Prior to 1986 see A12-E.	<b>1986</b>
<b>A12-E07C1</b>	.. <b>Associated processing auxiliaries</b> e.g. developers (with A12-L+), polishing compositions (with A12-A3), tape automated bonding (TAB) compositions.	<b>2011</b>	<b>A12-E14</b>	<b>Electrodes</b> Excluding A12-E06A and A12-E09. Prior to 1986 see A12-E.	<b>1986</b>
<b>A12-E08</b>	<b>Magnetic</b> e.g. magnets. Prior to 1970 see A12-E.	<b>1970</b>	<b>A12-E15</b>	<b>Piezoelectric compositions/devices</b> Prior to 1986 see A12-E.	<b>1986</b>
<b>A12-E08A</b>	. <b>Magnetic recording (compositions)</b> Prior to 1986 see A12-E08.	<b>1986</b>	<b>A12-E16</b>	<b>Superconductor application</b>  <i>Previous code(s): A12-E</i>	<b>1994</b>
<b>A12-E08A1</b>	.. <b>Magnetic tape</b> Including audio and video. Prior to 1986 see A12-E08.	<b>1986</b>	<b>A12-E</b>	<b>Other electrical uses</b> Including aerials, electrical waveguides, electric bus bars.	
<b>A12-E08A2</b>	.. <b>Other magnetic recording</b> Including heads, (floppy) discs, magneto-(optical). Prior to 1986 see A12-E08.	<b>1986</b>	<b>A12-F</b>	<b>FANCY GOODS, GAMES, SPORTS EQUIPMENT, TOYS, EDUCATIONAL DEVICES (OTHERS)</b> Includes fancy goods, toys, educational devices, training, teaching, models, globes.	
<b>A12-E08B</b>	. <b>Motors, coils, transformers, generators</b> Prior to 1986 see A12-E08.	<b>1986</b>			



<b>A12-F01</b>	<b>Sports and games equipment</b> Including camping, board games, fishing lines. Prior to 1970 see A12-F.  1970	<b>A12-H02B</b>	<b>. Reinforced</b> See also A12-S08+. Prior to 1970 see A12-H02.  1970
<b>A12-F01A</b>	<b>. Sports areas</b> Including courts, mats, pools. Prior to 1986 see A12-F01.  1986	<b>A12-H02C</b>	<b>. Fittings</b> e.g. flanges, connectors. Prior to 1977 see A12-H02, A12-H02A and A12-H02B appropriately.  1977
<b>A12-F01B</b>	<b>. Balls, racquets, clubs, bats</b> Prior to 1986 see A12-F01.  1986	<b>A12-H02D</b>	<b>. Coatings, linings</b> Including polymer laminates and coextrudates. Prior to 1977 see A12-H02, A12-H02A, and A12-H02B appropriately.  1977
<b>A12-F</b>	<b>Others</b> Including fancy goods, toys: Educational devices, training, teaching, models, globes.	<b>A12-H02D1</b>	<b>.. Lagging, thermal insulation</b> Prior to 1986 see A12-H02D  1986
<b>A12-G</b>	<b>FIBRE AND TEXTILE POLYMERIC FINISHES</b>	<b>A12-H03</b>	<b>Gears, bearing surfaces and similar joints</b>
<b>A12-G00G</b>	<b>General or unspecified fibre and textile polymeric finishes</b>  2002	<b>A12-H04</b>	<b>Filters</b> Excluding (semi)-permeable membranes (ultrafilters) for which see A12-W11A; includes cigarette filters.
<b>A12-G01</b>	<b>Flame-retardant</b> See also A12-S05R for non-resinous finishes.	<b>A12-H05</b>	<b>Moulds of rubber or plastics</b> Excluding core moulds for which see A12-A02.
<b>A12-G02</b>	<b>Shrink-, crease-resistant, non-iron</b> See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.  1970	<b>A12-H06</b>	<b>Hinges</b>
<b>A12-G03</b>	<b>Water-, oil-, soil-proofing</b> See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.  1970	<b>A12-H07</b>	<b>Valves, diaphragms</b> Prior to 1970 see A12-H.  1970
<b>A12-G04</b>	<b>Sizes</b> See also A12-S05R for non-resinous finishes.  1994  <i>Previous code(s): A12-G</i>	<b>A12-H08</b>	<b>Seals</b> Excluding A12-H07; sealants for which see A12-R08 and closures for which see A12-P03. Prior to 1970 see A12-H.  1970
<b>A12-G</b>	<b>Others</b> Excluding A12-S05S. See also A12-S05T for non-resinous finishes.	<b>A12-H09</b>	<b>Shock absorbers</b> Prior to 1977 see A12-H.  1977
<b>A12-H</b>	<b>MECHANICAL ENGINEERING</b>	<b>A12-H10</b>	<b>Brake material; materials for increasing or decreasing friction; abrasion reducers</b> Excluding bearings for which see A12-H03. Prior to 1977 see A12-H.  1977
<b>A12-H00H</b>	<b>General mechanical engineering</b> Indexed for the generic case and where three or more codes are required from the A12-H+ hierarchy.  1994	<b>A12-H11</b>	<b>Rolls, rollers</b> Prior to 1986 see A12-H.  1986
<b>A12-H01</b>	<b>(Conveyor) belts</b> Including systems.	<b>A12-H12</b>	<b>Fasteners</b> Including screws, nuts, clamps, (anchor) bolts. Prior to 1986 see A12-H.  1986
<b>A12-H02</b>	<b>Hose, tubing, pipes</b>		
<b>A12-H02A</b>	<b>. Unreinforced</b> Prior to 1970 see A12-H02.  1970		

<b>A12-H</b>	<b>Others</b> e.g. tools, pumps, fan blades.		
<b>A12-L</b>	<b>(ELECTRO)PHOTOGRAPHY, LABORATORY, OPTICAL</b> (Electro)photographic materials include those sensitive to (UV) light or ionising radiation.		
<b>A12-L00L</b>	<b>General optical</b>	2002	
<b>A12-L01</b>	<b>Photographic (film) support; binders</b>		
<b>A12-L02</b>	<b>Other photographic materials, processes</b>		
<b>A12-L02A</b>	<ul style="list-style-type: none"> <li>• <b>Apparatus</b> Including lenses; e.g. spectacle lenses (with 12-V02A), but excluding contact lenses for which see A12-V02A only. Prior to 1970 see A12-L02.</li> </ul>	1970	
<b>A12-L02B</b>	<ul style="list-style-type: none"> <li>• <b>Compositions for making printing plates or electrical devices</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L02.</li> </ul>	1977-1985	
<b>A12-L02B1</b>	<ul style="list-style-type: none"> <li>• <b>Printing plates</b> Prior to 1986 see A12-L02B.</li> </ul>	1986	
<b>A12-L02B2</b>	<ul style="list-style-type: none"> <li>• <b>Electrical devices</b> e.g. printed circuits. Prior to 1986 see A12-L02B.</li> </ul>	1986	
<b>A12-L02C</b>	<ul style="list-style-type: none"> <li>• <b>Radiation sensitive compositions containing unsaturated monomers</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.</li> </ul>	1977	
<b>A12-L02D</b>	<ul style="list-style-type: none"> <li>• <b>Radiation sensitive compositions containing unsaturated polymers</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.</li> </ul>	1977	
<b>A12-L02E</b>	<ul style="list-style-type: none"> <li>• <b>Other radiation sensitive polymer compositions</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.</li> </ul>	1977	
<b>A12-L02F</b>	<ul style="list-style-type: none"> <li>• <b>Compositions containing non-radiation sensitive polymer</b> Excluding A12-L01; including mordants, acceptor layers, developers. Prior to 1986 see A12-L02.</li> </ul>	1986	
<b>A12-L03</b>	<b>Other optical uses</b> i.e. non-photographic; excluding electro-optical for which see A12-E11+; e.g. spectacle frames, lamp shades.		
<b>A12-L03A</b>	<ul style="list-style-type: none"> <li>• <b>Optical fibres, cables</b> Including coatings, adhesives etc. Prior to 1986 see A12-L03.</li> </ul>	1986	
<b>A12-L03B</b>	<ul style="list-style-type: none"> <li>• <b>Liquid crystal (devices)</b> Prior to 1986 see the combination of codes A12-L03 and A12-E11.</li> </ul>	1986	
<b>A12-L03C</b>	<ul style="list-style-type: none"> <li>• <b>Optically readable records</b> Including laser recording devices, optical discs e.g. compact discs. Prior to 1986 see A12-L03.</li> </ul>	1986	
<b>A12-L03D</b>	<ul style="list-style-type: none"> <li>• <b>Optical filters</b> <i>Previous code(s): A12-L03</i></li> </ul>	1994	
<b>A12-L04</b>	<b>Laboratory</b>		
<b>A12-L04A</b>	<ul style="list-style-type: none"> <li>• <b>Chromatography</b> <i>Previous code(s): A12-L04</i></li> </ul>	1994	
<b>A12-L04B</b>	<ul style="list-style-type: none"> <li>• <b>Sensors/measuring</b> Excluding A12-E13. <i>Previous code(s): A12-L04</i></li> </ul>	1994	
<b>A12-L05</b>	<b>Electrophotography and thermography</b> Prior to 1970 see A12-L01, A12-L02 and A12-L appropriately.	1970	
<b>A12-L05A</b>	<ul style="list-style-type: none"> <li>• <b>Thermography</b> Prior to 1977 see A12-L05.</li> </ul>	1977	
<b>A12-L05B</b>	<ul style="list-style-type: none"> <li>• <b>Photoconductive polymers</b> Prior to 1977 see A12-L05.</li> </ul>	1977	
<b>A12-L05C</b>	<ul style="list-style-type: none"> <li>• <b>Electrophotographic toners and apparatus</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L05.</li> </ul>	1977-1985	

<b>A12-L05C1</b>	<b>.. Equipment</b> Prior to 1986 see A12-L05C.	<b>1986</b>	<b>A12-P03</b>	<b>Closures</b>	
<b>A12-L05C2</b>	<b>.. Toners and carriers</b> Prior to 1986 see A12-L05C.	<b>1986</b>	<b>A12-P04</b>	<b>Shrink packages</b>	
<b>A12-L05D</b>	<b>. Binders and substrates</b> Prior to 1977 see A12-L05.	<b>1977</b>	<b>A12-P05</b>	<b>Tanks, drums</b> Including linings.	
<b>A12-L</b>	<b>Others</b>		<b>A12-P06</b>	<b>Other containers</b>	
<b>A12-M</b>	<b>ION EXCHANGE RESINS, POLYELECTROLYTES</b>		<b>A12-P06A</b>	<b>. Bottles, aerosol containers</b> Prior to 1970 see A12-P06.	<b>1970</b>
<b>A12-M</b>	<b>General ion exchange resins</b>		<b>A12-P06B</b>	<b>. Boxes, cartons, crates, rigid packs</b> Prior to 1970 see A12-P06.	<b>1970</b>
<b>A12-M01</b>	<b>Acrylic polyelectrolytes, flocclulants</b> Prior to 1977 see A12-M	<b>1977</b>	<b>A12-P06C</b>	<b>. Collapsible tubes, sachets, blister packs</b> Prior to 1970 see A12-P06.	<b>1970</b>
<b>A12-M02</b>	<b>Other polyelectrolytes, flocclulants</b> Prior to 1977 see A12-M.	<b>1977</b>	<b>A12-P07</b>	<b>Rope, cord, net, webbing, strapping</b>	
<b>A12-M03</b>	<b>Ion exchange resins from aromatic olefinic (optionally substituted) (co)polymers</b> Prior to 1977 see A12-M.	<b>1977</b>	<b>A12-P</b>	<b>Other packaging accessories</b> e.g. handles, labels.	
<b>A12-M04</b>	<b>Ion exchange resins from other addition (co)polymers</b> Excluding A12-M03. Prior to 1977 see A12-M.	<b>1977</b>	<b>A12-R</b>	<b>BUILDING, CIVIL ENGINEERING</b>	
<b>A12-M05</b>	<b>Ion exchange resins from other polymers; chelate resins</b> Prior to 1977 see A12-M.	<b>1977</b>	<b>A12-R01</b>	<b>General</b>	
<b>A12-P</b>	<b>PACKAGING</b>		<b>A12-R01A</b>	<b>. Concrete, cement, gypsum, mortar compositions and boards</b> Prior to 1986 see A12-R01.	<b>1986</b>
<b>A12-P01</b>	<b>General</b>		<b>A12-R02</b>	<b>Fittings</b> i.e. fixtures e.g. baths, guttering.	
<b>A12-P01A</b>	<b>. (Wrapping) films and film laminates</b> Optionally containing non- polymeric layers. Prior to 1986 see A12-P01.	<b>1986</b>	<b>A12-R02A</b>	<b>. Windows, doors</b> Including frames, seals; excluding A12-R04. Prior to 1986 see A12-R02.	<b>1986</b>
<b>A12-P01B</b>	<b>. General container</b> Indexed where three or more codes are required from the A12-P+ hierarchy.	<b>1994</b>	<b>A12-R02B</b>	<b>. Solar panels, collectors, heat storage devices</b> Non-electrical. Prior to 1986 see the combination of codes A12- R02 and A12-H for solar panels/collectors; and A12-R02 for heat storage devices.	<b>1986</b>
<b>A12-P02</b>	<b>Bags and sacks</b> Excluding blood bags for which see A12-V03B, handbags for which see A12-T.		<b>A12-R03</b>	<b>Flooring</b>	
			<b>A12-R04</b>	<b>Glazing, roof lighting</b> e.g. skylights.	
			<b>A12-R05</b>	<b>Roofing</b> Excluding roof lighting.	

<b>A12-R06</b>	<b>Thermal and/or acoustic insulation; honeycomb structures</b> Including all references. The code is applicable to non-specific uses. For specific uses in building see additionally the appropriate code. For specific uses in transport see A12-T04B and for pipe lagging see A12-H02D1. For other non-building use, see that use only e.g. thermally insulated bottles see A12-P06A.	<b>A12-S02D</b>	<b>• Polyetherurethanes</b> Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. <b>1977</b>
<b>A12-R07</b>	<b>Walls, wall coverings and ceilings</b>	<b>A12-S02E</b>	<b>• Other specific polyurethanes</b> Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. <b>1977</b>
<b>A12-R08</b>	<b>Sealants, grouts, caulking compositions</b> The code is applicable to non-specific uses. For specific use in building see additionally the appropriate code e.g. for window seals see A12-R02A and A12-R08. For non-building use see that use only e.g. in sealing batteries see A12-E06+ only.	<b>A12-S02F</b>	<b>• Building, civil engineering, insulation (acoustic and thermal)</b> Prior to 1986 see A12-S02 to A12-S02E appropriately. <b>1986</b>
<b>A12-R09</b>	<b>Compositions for roads, aircraft runways, paving</b>	<b>A12-S03</b>	<b>Expanded thermosets</b> e.g. phenoplasts.
<b>A12-R</b>	<b>Others</b> e.g. road signs and road paints.	<b>A12-S04</b>	<b>Expanded polymers or general</b> Excluding A12-S01+ to A12-S03. Including uses other than A12-S04B to A12-S04E.
<b>A12-S</b>	<b>'SEMI-FINISHED' MATERIALS</b>	<b>A12-S04A</b>	<b>• Foamable, expandable compositions, general</b> Prior to 1970 see A12-S04. <b>1970</b>
<b>A12-S01</b>	<b>Expanded polystyrene</b> Including uses. The codes A04-C02+ are not additionally searchable.	<b>A12-S04A1</b>	<b>.. Foaming processes</b> A11-B06+ is additionally coded. Prior to 1977 see A12-S04A. <b>1977</b>
<b>A12-S01A</b>	<b>• Compositions and foaming processes</b> A11-B06+ is additionally coded for foaming processes. Prior to 1970 see A12-S01. <b>1970</b>	<b>A12-S04A2</b>	<b>.. Polyolefin compositions and foaming processes</b> Prior to 1977 see A12-S04A. <b>1977</b>
<b>A12-S02</b>	<b>Expanded polyurethane, general</b> The codes A05-G+ are not additionally searchable.	<b>A12-S04A3</b>	<b>.. Other addition and condensation resins compositions and foaming processes</b> Excluding A12-S01+ to A12-S03; e.g. polyisocyanurates. Prior to 1977 see A12-S04A. <b>1977</b>
<b>A12-S02A</b>	<b>• Foam-in-place, in-situ</b> Prior to 1970 see A12-S02. <b>1970</b>	<b>A12-S04B</b>	<b>• Building, civil engineering, insulation (acoustic and thermal)</b> Excluding A12-S04C and A12-S04D. Prior to 1977 see A12-S04 and A12-S04A appropriately. <b>1977</b>
<b>A12-S02B</b>	<b>• Compositions and general foam-forming</b> Applied from the start of 1970 to the end of 1976 and was then discontinued. Prior to 1970 see A12-S02. <b>1970-1976</b>	<b>A12-S04C</b>	<b>• Packaging; agriculture</b> Prior to 1977 see A12-S04 and A12-S04A appropriately. <b>1977</b>
<b>A12-S02C</b>	<b>• Foaming processes</b> Excluding A12-S02A. A11-B06+ is additionally coded. Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. <b>1977</b>	<b>A12-S04D</b>	<b>• Fabrics, furniture, upholstery, furnishings, including decorative panels; toys; sports goods</b> Prior to 1977 see A12-S04 and A12-S04A appropriately. <b>1977</b>

<b>A12-S04E</b>	<ul style="list-style-type: none"> <li>• <b>Integral skin foams, floats, cables, electrical insulation</b> Prior to 1977 see A12-S04 and A12-S04A appropriately.</li> </ul>	<b>1977</b>	<b>A12-S05N</b>	<ul style="list-style-type: none"> <li>• <b>Dyeing polyesters, polyamides or cellulotics</b> Prior to 1977 see A12-S05N. See also A11-A01 to A11-A01B appropriately.</li> </ul>	<b>1977</b>
<b>A12-S05</b>	<ul style="list-style-type: none"> <li>• <b>Fibres and textiles</b> Applied from the start of Plasdoc to the end of 1969 and as then discontinued.</li> </ul>	<b>1966-1969</b>	<b>A12-S05P</b>	<ul style="list-style-type: none"> <li>• <b>Dyeing other substrates</b> Excluding A12-S05N. Prior to 1977 see A12-S05M. See also A11-A01 to A11-A01B appropriately.</li> </ul>	<b>1977</b>
<b>A12-S05A</b>	<ul style="list-style-type: none"> <li>• <b>Non-circular, hollow, tapered fibres</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05Q</b>	<ul style="list-style-type: none"> <li>• <b>Printing</b> Prior to 1977 see A12-S05M. See also A11-C04A.</li> </ul>	<b>1977</b>
<b>A12-S05B</b>	<ul style="list-style-type: none"> <li>• <b>Conjugate fibres</b> e.g. sea-island, side-by-side, sheath-core. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05R</b>	<ul style="list-style-type: none"> <li>• <b>Repellent, flame proofing, crease-resistant, pill resistant and durable press treatments (non-resinous)</b> e.g. water, oil, insect. Prior to 1977 see A12-S05M.</li> </ul>	<b>1977</b>
<b>A12-S05C</b>	<ul style="list-style-type: none"> <li>• <b>Textured fibres</b> e.g. crimped, bulked. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05S</b>	<ul style="list-style-type: none"> <li>• <b>Antistatic, surfactant, softener or lubricant treatments</b> i.e. both resinous and non-resinous finishes. Prior to 1977 see A12-S05M.</li> </ul>	<b>1977</b>
<b>A12-S05D</b>	<ul style="list-style-type: none"> <li>• <b>Elastic fibres</b> e.g. spandex. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05T</b>	<ul style="list-style-type: none"> <li>• <b>Other chemical treatments</b> Non-resinous; including carbon fibre production. Prior to 1977 see A12-S05M</li> </ul>	<b>1977</b>
<b>A12-S05E</b>	<ul style="list-style-type: none"> <li>• <b>Other fibres</b> e.g. staple, monofil, fancy yarns. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05U</b>	<ul style="list-style-type: none"> <li>• <b>Physical and mechanical processes</b> Prior to 1977 see A12-S05M.</li> </ul>	<b>1977</b>
<b>A12-S05F</b>	<ul style="list-style-type: none"> <li>• <b>Woven fabrics</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S05X</b>	<ul style="list-style-type: none"> <li>• <b>General fibre</b> Indexed for the generic case.  <i>Previous code(s): A12-S05</i></li> </ul>	<b>1994</b>
<b>A12-S05G</b>	<ul style="list-style-type: none"> <li>• <b>Non-woven fabrics; felts</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S06</b>	<ul style="list-style-type: none"> <li>• <b>Films</b> i.e. self-supporting.</li> </ul>	
<b>A12-S05H</b>	<ul style="list-style-type: none"> <li>• <b>Knitted fabrics</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S06A</b>	<ul style="list-style-type: none"> <li>• <b>Film production</b> Including tubular. Prior to 1970 see A12-S06.</li> </ul>	<b>1970</b>
<b>A12-S05J</b>	<ul style="list-style-type: none"> <li>• <b>Other fabrics</b> e.g. net, pile, tufted. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S06B</b>	<ul style="list-style-type: none"> <li>• <b>Film treatment</b> Includes welding, chemical etching and surface treatment. Prior to 1970 see A12-S06.</li> </ul>	<b>1970</b>
<b>A12-S05K</b>	<ul style="list-style-type: none"> <li>• <b>Fibre forming compositions</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>	<b>A12-S06C</b>	<ul style="list-style-type: none"> <li>• <b>Having a laminated structure</b> e.g. with metal foils. Prior to 1977 see A12-S06, A12-S06A and A12-S06B appropriately.</li> </ul>	<b>1977</b>
<b>A12-S05L</b>	<ul style="list-style-type: none"> <li>• <b>Production of fibres</b> Including drawing; see also A11-B02+, A11-B15+ and A11-C05+. Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>			
<b>A12-S05M</b>	<ul style="list-style-type: none"> <li>• <b>Treatment of fibres, textiles, general</b> Prior to 1970 see A12-S05.</li> </ul>	<b>1970</b>			

<b>A12-S06C1</b>	.. <b>Of polymeric films only</b> Prior to 1986 see A12-S06C. 1986	<b>A12-S09</b>	<b>Powders, granules</b> Prior to 1977 see A12-S. 1977
<b>A12-S06D</b>	. <b>Made from mixtures of polymers</b> Prior to 1977 see A12-S06, A12-S06A and A12-S06B appropriately. 1977	<b>A12-S09A</b>	. <b>Formed by mechanical treatment</b> e.g. cutting, grinding. Prior to 1986 see A12-S09. 1986
<b>A12-S07</b>	<b>Sheet</b> Excluding reinforced, for which see A12-S08A.	<b>A12-S10</b>	<b>Plastisols</b> Prior to 1986 see A12-S. 1986
<b>A12-S07A</b>	. <b>Laminated</b> Prior to 1970 see A12-S07. 1970	<b>A12-S</b>	<b>Other semi-finished materials</b> e.g. solutions; bulk-, dough-, sheet- and thick- moulding compounds (BMC, DMC, SMC, TMC), micro-gels.
<b>A12-S08</b>	<b>Reinforced plastics</b> See also A12-H02B.	<hr/> <b>A12-T</b>	<hr/> <b>TRANSPORT</b>
<b>A12-S08A</b>	. <b>Sheets, panels, laminates</b> Prior to 1970 see A12-S08. 1970	<b>A12-T01</b>	<b>Tyres and tracks, inner tubes</b>
<b>A12-S08B</b>	. <b>Glass fibre reinforced</b> Excluding A12-S08A; do not search A08-R04 unless novelty in glass fibre. Prior to 1970 see A12-S08. 1970	<b>A12-T01A</b>	. <b>Tyre-building equipment</b> Prior to 1970 see A12-T01. 1970
<b>A12-S08C</b>	. <b>Other specific reinforcing materials</b> e.g. carbon fibre. Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately. 1977	<b>A12-T01B</b>	. <b>Tyre design, studs</b> e.g. tread. Prior to 1977 see A12-T01. 1977
<b>A12-S08D</b>	. <b>Uses</b> Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately. 1977	<b>A12-T01C</b>	. <b>Tyre cord (polymeric only); tyre cord adhesives (polymeric only)</b> Prior to 1977 see A12-T01. 1977
<b>A12-S08D1</b>	.. <b>Mechanical engineering</b> Prior to 1986 see A12-S08D. 1986	<b>A12-T01D</b>	. <b>Retreading, scrap recovery, disposal and use of old tyres</b> Prior to 1977 see A12-T01. 1977
<b>A12-S08D2</b>	.. <b>Electrical engineering</b> Prior to 1986 see A12-S08D. 1986	<b>A12-T02</b>	<b>Vehicle shells</b> e.g. boat hulls.
<b>A12-S08D3</b>	.. <b>Transport; military</b> Prior to 1986 see A12-S08D. 1986	<b>A12-T03</b>	<b>Other parts for rockets, space vehicles, jet engines and armaments</b> Excluding A12-T01+ and A12-T02.
<b>A12-S08E</b>	. <b>Thermoplastic reinforced composites</b> Prior to 1986 see A12-S08 to A12-S08D appropriately. 1986	<b>A12-T03A</b>	. <b>Fuels, explosives</b> Prior to 1970 see A12-T03. 1970
<b>A12-S08F</b>	. <b>Fabric reinforced</b> i.e. woven, non-woven or knitted of e.g. glass, aramid. Prior to 1986 see A12-S08 to A12-S08D appropriately. 1986	<b>A12-T03B</b>	. <b>Petroleum fuel additives</b> Prior to 1977 see A12-T03A. 1977
		<b>A12-T03C</b>	. <b>Propellants, rocket fuels</b> Prior to 1977 see A12-T03A. 1977
		<b>A12-T03D</b>	. <b>Military applications</b> <i>Previous code(s): A12-T03</i> 1994

<b>A12-T03D1</b>	<b>.. Military applications (offensive)</b> e.g. weapons.	<b>1994</b>	<b>A12-V02B</b>	<b>. Dental</b> Including fillings, adhesives. Prior to 1986 see A12-V02.	<b>1986</b>
<b>A12-T03D2</b>	<b>.. Military applications (defensive)</b> e.g. body armour (with A12-C02).	<b>1994</b>	<b>A12-V03</b>	<b>Equipment, splints, sutures</b> Prior to 1970 see A12-V.	<b>1970</b>
<b>A12-T04</b>	<b>Other vehicle parts and accessories</b>		<b>A12-V03A</b>	<b>. Dressings; bandages; tampons; diapers</b> Prior to 1977 see A12-V03.	<b>1977</b>
<b>A12-T04A</b>	<b>. Optical</b> Prior to 1977 see A12-T04.	<b>1977</b>	<b>A12-V03B</b>	<b>. Respirators; oxygenating devices; blood handling apparatus and devices</b> E.g. catheters. Prior to 1977 see A12-V03.	<b>1977</b>
<b>A12-T04B</b>	<b>. Crash pads (excluding bumpers), fascia, insulation (acoustic and thermal), upholstery</b> Prior to 1977 see A12-T04.	<b>1977</b>	<b>A12-V03B1</b>	<b>.. Birth control devices</b> Prior to 2006 see A12-V03B	<b>2006</b>
<b>A12-T04C</b>	<b>. Engine systems and associated components; electrical</b> Excluding jet engines; e.g. exhaust systems, carburettors, gaskets, propeller shafts. Prior to 1986 see A12-T04.	<b>1986</b>	<b>A12-V03C</b>	<b>. Dental, sterilisation and hygiene; testing, diagnosis and pathology</b> Prior to 1977 see A12-V01, A12-V02, A12-V03 and A12-V appropriately.	<b>1977-1985</b>
<b>A12-T04D</b>	<b>. Other moulded parts, fittings</b> Including bumpers. Prior to 1986 see A12-T04.	<b>1986</b>	<b>A12-V03C1</b>	<b>.. Dental; sterilisation and hygiene</b> e.g. surgical gowns and masks. Prior to 1986 see A12-V03C.	<b>1986</b>
<b>A12-T04E</b>	<b>. Safety devices</b> <i>Previous code(s): A12-T04</i>	<b>1994</b>	<b>A12-V03C2</b>	<b>.. Testing, diagnosis, pathology</b> Including medical blood testing (with A12-V03B). Prior to 1986, see A12-V03C.	<b>1986</b>
<b>A12-T05</b>	<b>Vehicle coatings, paints</b> Prior to 1986 see A12-T.	<b>1986</b>	<b>A12-V03D</b>	<b>. Medical or surgical instrumentation and equipment</b> Excluding A12-V03B, A12-V03C1 and A12-V03C2. Prior to 1986 see A12-V03.	<b>1986</b>
<b>A12-T</b>	<b>Others</b> e.g. pallets, travel goods, buoys.		<b>A12-V04</b>	<b>Cosmetics, toilet requisites</b> Including razor blades, wigs. Prior to 1970 see A12-V.	<b>1970</b>
<b>A12-V</b>	<b>MEDICAL, DENTAL, COSMETICS AND VETERINARY</b>		<b>A12-V04A</b>	<b>. Hair requisites</b> e.g. shampoo, dyes, gels. Prior to 1986 see A12-V04.	<b>1986</b>
<b>A12-V00V</b>	<b>Medical general</b>	<b>2002</b>	<b>A12-V04B</b>	<b>. Dental</b> e.g. toothpaste, dental floss. Prior to 1986 see A12-V04.	<b>1986</b>
<b>A12-V01</b>	<b>Medicines, pharmaceuticals</b> Prior to 1970 see A12-V.	<b>1970</b>			
<b>A12-V02</b>	<b>Prostheses</b> e.g. artificial blood vessels. Prior to 1970 see A12-V.	<b>1970</b>			
<b>A12-V02A</b>	<b>. Optical</b> e.g. contact lenses; for spectacle lenses see A12-L02A, in addition; for spectacle frames see A12-L03. Prior to 1986 see A12-V02.	<b>1986</b>			

<b>A12-V04C</b>	<ul style="list-style-type: none"> <li>• <b>Skin requisites</b> e.g. barrier creams, lotions, powders etc; including nail varnish, lipstick. Prior to 1986 see A12-V04.</li> </ul>	<b>1986</b>	<b>A12-W06B</b>	<ul style="list-style-type: none"> <li>• <b>Addition polymers</b> Prior to 1977 see A12-W06.</li> </ul>	<b>1977</b>
<b>A12-V05</b>	<b>Tissue engineering, stem cell culture</b>	<b>2024</b>	<b>A12-W06C</b>	<ul style="list-style-type: none"> <li>• <b>Condensation polymers</b> Prior to 1977 see A12-W06.</li> </ul>	<b>1977</b>
<b>A12-V</b>	<b>Others</b>		<b>A12-W06D</b>	<ul style="list-style-type: none"> <li>• <b>Natural polymers</b> Excluding natural cellulose e.g. wood fibres. Prior to 1977 see A12-W06.</li> </ul>	<b>1977</b>
<b>A12-W</b>	<b>OTHER APPLICATIONS</b> Excluding A12-A: to A12-V:.		<b>A12-W07</b>	<b>Printing; book binding</b>	
<b>A12-W01</b>	<b>Gramophone records</b>		<b>A12-W07A</b>	<ul style="list-style-type: none"> <li>• <b>Printing plates produced non-photographically</b> Prior to 1970 see A12-W07.</li> </ul>	<b>1970</b>
<b>A12-W01A</b>	<ul style="list-style-type: none"> <li>• <b>Video discs</b> Prior to 1986 see A12-W01.</li> </ul>	<b>1986</b>	<b>A12-W07B</b>	<ul style="list-style-type: none"> <li>• <b>Lithographic printing plates produced (electro)photographically</b> Prior to 1977 see A12-W07A.</li> </ul>	<b>1977</b>
<b>A12-W02</b>	<b>Lubricants and functional fluids</b> Including hydraulic fluids.		<b>A12-W07C</b>	<ul style="list-style-type: none"> <li>• <b>Other printing plates produced (electro)photographically</b> Prior to 1977 see A12-W07A.</li> </ul>	<b>1977</b>
<b>A12-W02A</b>	<ul style="list-style-type: none"> <li>• <b>Polymeric additives</b> Prior to 1970 see A12-W02.</li> </ul>	<b>1970</b>	<b>A12-W07D</b>	<ul style="list-style-type: none"> <li>• <b>Inks</b> Prior to 1977 see A12-W07.</li> </ul>	<b>1977</b>
<b>A12-W03</b>	<b>Advertising and display</b>		<b>A12-W07D1</b>	<ul style="list-style-type: none"> <li>• <b>Inkjet inks</b></li> </ul>	<b>2002</b>
<b>A12-W04</b>	<b>Agriculture, horticulture</b> Including animal husbandry.		<b>A12-W07E</b>	<ul style="list-style-type: none"> <li>• <b>Dyes and pigments for inks</b> Where dye/pigment is novelty. Prior to 1977 see A12-W07.</li> </ul>	<b>1977</b>
<b>A12-W04A</b>	<ul style="list-style-type: none"> <li>• <b>Growing areas, containers</b> Including greenhouses, cloches, agricultural film, plant pots, mulches. Prior to 1986 see A12-W04.</li> </ul>	<b>1986</b>	<b>A12-W07F</b>	<ul style="list-style-type: none"> <li>• <b>Other printing equipment/processes</b> e.g. equipment for book binding, printing blankets. Prior to 1977 see A12-W07.</li> </ul>	<b>1977</b>
<b>A12-W04B</b>	<ul style="list-style-type: none"> <li>• <b>Culture media</b> Including fertilisers, soil improvers, seed coatings. Prior to 1986 see A12-W04.</li> </ul>	<b>1986</b>	<b>A12-W07F1</b>	<ul style="list-style-type: none"> <li>• <b>Thermal transfer systems</b> <i>Previous code(s): A12-W07F</i></li> </ul>	<b>1994</b>
<b>A12-W04C</b>	<ul style="list-style-type: none"> <li>• <b>Protective chemicals</b> Including bactericides, herbicides, fungicides, insecticides. Prior to 1986 see A12-W04.</li> </ul>	<b>1986</b>	<b>A12-W07F2</b>	<ul style="list-style-type: none"> <li>• <b>Printing substrates</b> <i>Previous code(s): A12-W07F</i></li> </ul>	<b>2007</b>
<b>A12-W05</b>	<b>Encapsulated articles</b> Excluding electrical goods for which see A12-E04; including microcapsules.		<b>A12-W08</b>	<b>Musical instruments</b>	
<b>A12-W06</b>	<b>Paper compositions</b> Excluding coatings for which see A12-B03+ and paper making machinery (e.g. belts, filters) for which see A12-H+.		<b>A12-W09</b>	<b>Food</b> Excluding packaging for which see A12-P+. Prior to 1970 see A12-W.	<b>1970</b>
<b>A12-W06A</b>	<ul style="list-style-type: none"> <li>• <b>From non-cellulosic polymeric film, pulp or fibre</b> Prior to 1977 see A12-W06.</li> </ul>	<b>1977</b>	<b>A12-W10</b>	<b>Mining, oil wells</b> Prior to 1970 see A12-W.	<b>1970</b>



<b>A12-W10A</b>	. <b>Drilling mud or fluid</b> Prior to 1986 see A12-W10. 1986	<b>A12-W11J</b>	. <b>Water treatment (compositions); scale inhibition; corrosion prevention</b> Including pollution control treatment. Prior to 1986 see A12-W11 and A12-W12 appropriately. 1986
<b>A12-W10B</b>	. <b>Well stimulation, flooding, recovery, fracturing</b> Prior to 1986 see A12-W10. 1986	<b>A12-W11K</b>	. <b>Catalysts and supports</b> Prior to 1986 see A12-W11B. 1986
<b>A12-W10C</b>	. <b>Cementing, plugging, lining, consolidation</b> Prior to 1986 see A12-W10. 1986	<b>A12-W11L</b>	. <b>(Immobilised) enzymes or microorganisms, microbiology</b> Excluding detergents for which see A12-W12A or A12-W12B. Prior to 1986 see A12-W11B. 1986
<b>A12-W11</b>	<b>Chemical engineering, pollution control</b> Prior to 1970 see A12-W. 1970	<b>A12-W12</b>	<b>Miscellaneous compositions</b> e.g. syntactic foams, fire-fighting. Prior to 1970 see A12-W. 1970
<b>A12-W11A</b>	. <b>Reverse osmosis; semi-permeable membranes</b> Including ultrafilters. Prior to 1977 see A12-W11. 1977	<b>A12-W12A</b>	. <b>Detergents for fibres/fabrics</b> Including softeners. Prior to 1977 see A12-W12. 1977
<b>A12-W11B</b>	. <b>Enzyme containing compositions; catalysts</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. From the start of 1986 see A12-W11K and A12-W11L. Prior to 1977 see A12-W11. 1977-1985	<b>A12-W12B</b>	. <b>Cleaning compositions</b> Excluding A12-W12A. 1977
<b>A12-W11C</b>	. <b>Nuclear engineering</b> Prior to 1977 see A12-W11. 1977	<b>A12-W12C</b>	. <b>Surfactants</b> Excluding A12-W12A and A12-W12B. Prior to 1977 see A12-W12. 1977
<b>A12-W11D</b>	. <b>Adsorption other than with ion exchange resins</b> e.g. in pollution control. Prior to 1977 see A12-W11. 1977	<b>A12-W12D</b>	. <b>Electroplating additives; fluxes, metallurgy, ceramic uses</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-W12. 1977-1985
<b>A12-W11E</b>	. <b>Pollution control using coagulants, flocculants or polyelectrolytes</b> Prior to 1977 see A12-W11. 1977	<b>A12-W12E</b>	. <b>Electroplating bath additives</b> Prior to 1986 see A12-W12D. 1986
<b>A12-W11F</b>	. <b>Other pollution control</b> Prior to 1977 see A12-W11. 1977	<b>A12-W12F</b>	. <b>Metallurgy</b> Including fluxes, metal passivation agents. Secondary uses of produced metal are not coded. Prior to 1986, see A12-W12D. 1986
<b>A12-W11G</b>	. <b>Heat exchangers, heat storage and heat transfer compositions, coolants, antifreeze</b> Prior to 1986 see A12-W11 and A12-W12 appropriately. 1986	<b>A12-W12G</b>	. <b>Ceramics, refractory compsns.</b> Prior to 1986 see A12-W12D. 1986
<b>A12-W11H</b>	. <b>Polymer use in pigment/dye compositions of no other specified use</b> Prior to 1986 see A12-W11. 1986	<b>A12-W13</b>	<b>Super absorbents</b> 2002

<b>A12-W14</b>	<b>Nanotechnology</b> Excludes resists.	<b>2007</b>
<b>A12-W15</b>	<b>Controlled release</b>	<b>2010</b>
<b>A12-W16</b>	<b>Renewable energy</b>	<b>2010</b>
<b>A12-W17</b>	<b>Wearable technology</b> Includes virtual reality.	<b>2022</b>
<b>A12-W</b>	<b>Others</b> e.g. coffins, watches.	
<b>A99-A</b>	<b>Patents with minimal polymer content</b>	<b>2001</b>

**B:**  
**PHARMACEUTICALS**

- B01 Steroids
- B02 Antibiotics (*Vaccines pre-1994, see B14-S11 from 1994*)
- B03 Vitamins (*pre-2011, see B15 from 201101*)
- B04 Natural Products (or Genetically Engineered), Polymers
- B05 Miscellaneous
- B06 Heterocyclics, Fused Ring
- B07 Heterocyclics, Mononuclear
- B08 Aromatics, Polycarbocyclic
- B09 Alicyclics, Polycarbocyclic
- B10 Aromatics and Cycloaliphatics (Mono- and Bicyclic only), Aliphatics
- B11 Processes, Apparatus
- B12 Diagnostics and Formulation Types (*Therapeutic, Pesticidal, Herbicidal pre-1994*)
- B14 Pharmaceutical Activities
- B15 Vitamins (*from 201101*)

## B: PHARMACEUTICALS

The codes in this section have an initial letter B and apply only to Pharmaceuticals. For the corresponding Agricultural Chemicals codes the initial 'B' must be replaced by 'C' (before 1994). The notes referring to "B" codes apply equally to "C" codes in Agricultural Chemicals unless stated otherwise (before 1994). A compound is normally assigned only one code from sections B01 to B10 according to the priority rule of B01 before B02 etc.

Compounds of known structure are always coded according to chemical structure in B05 to B10 and B15. However, steroids, antibiotics, vitamins and natural products (and their derivatives) are coded respectively in B01, B02, B03/B15 and B04 unless stated otherwise (see B03/B15, B03-J, B03-K, B04-A07A, B04-A07E for exclusions).

The code commenced in 1963 for Pharmaceuticals (Farmdoc) and 1965 for Agricultural Chemicals (Agdoc).

## B01 STEROIDS

This section covers all compounds containing the basic steroidal nucleus (cyclopentanophenanthrene ring), which may have other rings (carbocyclic or heterocyclic) fused onto it. Compounds which contain heteroatoms within the basic cyclopentanophenanthrene ring (e.g. azasteroids) are excluded. Homosteroids (containing extra carbon in the ring), norsteroids (missing one carbon in the ring) and secosteroids (bonds broken, e.g. vitamin D) are also excluded. Steroids of unknown structure are also coded under B04-B02D: (before 1994) or B04-J02 (after 1994). All groups listed include derivatives. Thus hydroxy includes ethers, esters and cyclic derivatives (linked via an oxygen atom to a steroid carbon atom). All the compound types listed may contain additional substituents, provided that they are not specified for an earlier occurring code.

### Conventions used

- 1 Steroids containing thio-groups (e.g. mercapto or thione), are assigned the same code as the corresponding oxygen containing compounds.
- 2 17, 20 and 21 hydroxy include all cyclic derivatives linked via -O- to 17, 20 or 21, provided these are not linked via atoms other than O(S) to 17, 20 or 21 positions.
- 3 3, 17 and 20 ketone include oxime, hydrazone etc., hemi-ketal, ketal (including those cyclic derivatives which satisfy convention (2)).
- 4 In deciding precedence, the highest priority is given to the lowest number.
- 5 'Y' represents 2-4 carbon chain (including Z), but includes cyclic derivatives only when they satisfy conventions (2) or (3).
- 6 'Z' represents hydroxyacetyl or 1,2-di-hydroxyethyl (specific subset of Y).

<b>B01-A</b>	<b>1,3,5(10)-TRIENES</b>
<b>B01-A01</b>	<b>Estrones (3-ol, 17-one)</b>
<b>B01-A02</b>	<b>Estradiols (3,17-diol)</b>
<b>B01-A03</b>	<b>Others</b>
<b>B01-B</b>	<b>RING 'A' DIENES</b>
<b>B01-B01</b>	<b>Prednisones (3,11-dione; 17-ol; 17-Z)</b>
<b>B01-B02</b>	<b>Prednisolones (3-one; 11,17-diol; 17-Z)</b>
<b>B01-B03</b>	<b>Other 1,4-dienes</b>
<b>B01-B04</b>	<b>Others</b>

<b>B01-C</b>	<b>RING 'A' MONOENES</b>
<b>B01-C01</b>	<b>Cortisones (3,11-dione; 17-ol; 17-Z)</b>
<b>B01-C02</b>	<b>Cortisols (3-one; 11,17-diol; 17-Z)</b>
<b>B01-C03</b>	<b>17-hydroxyprogesterones (3-one; 17-acetyl)</b>
<b>B01-C04</b>	<b>Progesterones (3-one; 17-acetyl)</b>
<b>B01-C05</b>	<b>Testosterones (3-one; 17-ol)</b>
<b>B01-C06</b>	<b>Pregn(3 or 4)enes (17-Y)</b>
<b>B01-C07</b>	<b>Pregn(1 or 2)enes (17-Y)</b>
<b>B01-C08</b>	<b>Pregn(5(10) or 1(10))enes (17-Y)</b>
<b>B01-C09</b>	<b>Androst(3 or 4)enes</b>
<b>B01-C10</b>	<b>Androst(1 or 2)enes</b>
<b>B01-C11</b>	<b>Androst(5(10) or 1(10))enes</b>
<b>B01-D</b>	<b>SATURATED RING 'A'</b>
<b>B01-D01</b>	<b>Pregnanes (17-Y)</b> Including cardenolides and digoxin.
<b>B01-D02</b>	<b>Androstanes</b>
<b>B01-E</b>	<b>STEROIDS NO STRUCTURE</b>
<b>B01-E</b>	<b>Steroids (no structure)</b> Non-structural steroids other than steroid hormones, e.g. plant sterols. 2010

## **B02 ANTIBIOTICS (Vaccines pre-1994, see B14-S11 from 1994)**

Antibiotics are coded using the first letter of the parent antibiotic (where this is known or given), for example, dihydrostreptomycin is coded B02-S, chlortetracycline B02-T and adriamycin (doxorubicin) B02-D. Unnamed or general antibiotics are coded B02-Z.

Vaccines, anti-toxins used as vaccines etc. are coded B02-V02 (before 1994) and B14-S11+ (from 1994). "C" and "P" antibiotics including cephalosporins and penicillins are subdivided further. All antibiotics are coded in this section even if they are not being used for their antibiotic properties.

<b>B02-C</b>	<b>"C" ANTIBIOTICS, GENERAL</b>
<b>B02-C</b>	<b>General</b>
<b>B02-C01</b>	<b>"C" antibiotics other than cephalosporins</b> 1977
<b>B02-C02</b>	<b>Ring modified cephalosporins</b> This code covers cephalosporins with no -(CH <sub>2</sub> )X (X=H or substituent) at 3-position, or two substituents at 7-position. 1977
<b>B02-C03</b>	<b>Other 3-unsubstituted methyl, 7-monosubstituted cephalosporins</b> 1977
<b>B02-C04</b>	<b>Other 7-monosubstituted cephalosporins</b> Including lactones. 1977
<b>B02-P</b>	<b>"P" ANTIBIOTICS, GENERAL</b>
<b>B02-P</b>	<b>General</b> Includes penicillins with no 6-acetamide group.
<b>B02-P01</b>	<b>"P" antibiotics other than penicillins</b> 1977
<b>B02-P02</b>	<b>6-acetamidopenicillins, alpha-substituted by N-atom</b> 1977
<b>B02-P03</b>	<b>Other 6-acetamidopenicillins</b> 1977
<b>B02-P04</b>	<b>Other penicillins</b> With beta-lactam ring with 6 position substituted by group other than acetamide 2012

<b>B02-V</b>	<b>"V" ANTIBIOTICS, VACCINES (PRE-1994)</b>	
<b>B02-V</b>	<b>General</b>	<b>1963-1993</b>
<b>B02-V01</b>	<b>"V" Antibiotics</b>	<b>1986</b>
<b>B02-V02</b>	<b>Vaccines</b> Excluding interferon. The code B12-A06 for antiviral is not additionally searchable.	<b>1986-1993</b> <i>Now coded as: B14-S11+</i>
<b>B02-V03</b>	<b>Interferon</b> Not additionally searchable as polypeptide B04-C01:.	<b>1986-1993</b> <i>Now coded as: B04-H05+</i>
<b>B02-Z</b>	<b>"Z" ANTIBIOTICS, GENERAL</b>	
<b>B02-Z</b>	<b>General</b>	
<b>B02-Z01</b>	<b>Z antibiotics general</b>	<b>2022</b>

## B03 VITAMINS

From 2011 vitamins have been transferred to B15 codes. B03 codes remain valid and searchable for records prior to 2011. Each sub-group includes related compounds with similar activity and pro-vitamins. The following compounds, although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (B07-D04+), pantothenic acid (B10-C04D), folic acid (B06-D09), choline (B10-A22), inositol (B10-E04A), biotin (B06-F03), p-aminobenzoic acid (B10-B02A), linoleic acid (B10-C04E2) and other unsaturated acids.

**retired end 2010**

<b>B03-A</b>	<b>A and carotenoids</b> <i>now coded B15-A00+</i>	<b>retired end 2010</b>
<b>B03-B</b>	<b>B1 (thiamine)</b> <i>now coded B15-B01+</i>	<b>retired end 2010</b>
<b>B03-C</b>	<b>B2 (riboflavin)</b> <i>now coded B15-B02+</i>	<b>retired end 2010</b>
<b>B03-D</b>	<b>B6 (pyridoxine)</b> <i>now coded B15-B06+</i>	<b>retired end 2010</b>
<b>B03-E</b>	<b>B12 and cobalamine</b> <i>now coded B15-B12+</i>	<b>retired end 2010</b>
<b>B03-F</b>	<b>C (ascorbic acid)</b> <i>now coded B15-C00+</i>	<b>retired end 2010</b>
<b>B03-G</b>	<b>D (calciferol)</b> <i>now coded B15-D00+</i>	<b>retired end 2010</b>
<b>B03-H</b>	<b>E and tocopherols</b> <i>now coded B15-E00+</i>	<b>retired end 2010</b>
<b>B03-J</b>	<b>Vitamin K</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only. <i>now coded B15-K00+</i>	<b>retired end 2010</b>
<b>B03-K</b>	<b>Vitamin P and others</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only. <i>now coded B15-P00+</i>	<b>retired end 2010</b>

**B03-L****General***now coded B15-Z00*

retired end 2010

**B04 NATURAL PRODUCTS (OR GENETICALLY ENGINEERED), POLYMERS**

In general, natural products are coded according to their most descriptive feature (usually chemical), thus

- (i) milk is coded B04-B04K only, and not also B04-B04G (gland extract) or B04-B04L (mammalian extract);
- (ii) a polysaccharide obtained from a plant is coded B04-C02D only, and not also B04-A07F.

The following compounds and their derivatives are coded in B04 only and not also according to their chemical structure:- tropanes, scopolamine, quinine, quinidine, lysergic acid, morphine, yohimbanes, xanthines, rotenone, pyrethroids, gibberellins, nucleosides and nucleotides, prostaglandins. If a compound's structure or activity suggest it **may** be a natural product analogue it is coded in B04 and structurally. To distinguish between specifically genetically engineered products and those prepared by other methods, the E suffix (engineered) is appended to codes introduced from 1994 in the appropriate format. For example, Interleukin 6 prepared by exogenous gene expression in a host is coded B04-H02G0E. All codes which have genetically engineered equivalents are marked #.

**B04-A ALKALOIDS, PLANT EXTRACTS**

<b>B04-A01</b>	<b>Belladonna</b> Including tropanes and scopolamines.
<b>B04-A02</b>	<b>Cinchona</b> Including quin(id)ines.
<b>B04-A03</b>	<b>Ergot</b> Including lysergic acid.
<b>B04-A04</b>	<b>Opium</b> Including morphines and morphinans from 198601 but excluding apomorphine.
<b>B04-A05</b>	<b>Rauwolfia</b> Including yohimbanes.
<b>B04-A06</b>	<b>Xanthines</b> i.e. 2,6-dioxapurines.
<b>B04-A07</b>	<b>Plant extracts general</b>

1963-1965

<b>B04-A07A</b>	. <b>Other alkaloids</b> Applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only e.g. strychnine is coded B06-E05. <b>1965</b>	<b>B04-A07F1</b>	.. <b>Mushrooms, toadstools extracts</b> <b>1986-1993</b> <i>Now coded as: B04-A10A</i>
<b>B04-A07A1</b>	.. <b>Vinca alkaloids</b> Includes vincristine, vinblastine, vinorelbine and vindesine. <b>2010</b>	<b>B04-A07F2</b>	.. <b>Other plant extracts</b> <b>1986-1993</b> <i>Now coded as: B04-A10B+, B04-A09C</i>
<b>B04-A07B</b>	. <b>Derris</b> e.g. rotenone. <b>1965</b>	<b>B04-A08 #</b>	<b>Plant divisions and whole plants general and other</b> E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded B04-F08. <b>1994</b> <i>Previous code(s): B04-A07D</i>
<b>B04-A07C</b>	. <b>Pyrethrins</b> <b>1965</b>	<b>B04-A08A #</b>	. <b>Bryophytes</b> e.g. liverworts and mosses. <b>1994</b> <i>Previous code(s): B04-A07D5</i>
<b>B04-A07D</b>	. <b>Peat, straw, cereal, seeds, bran, whole plants, juice</b> <b>1965-1993</b> <i>Now coded as: B04-A08, B04-A09</i>	<b>B04-A08A1 #</b>	.. <b>Marchantiophyta (liverworts)</b> <b>2012</b>
<b>B04-A07D1</b>	.. <b>Peat, humic acid</b> <b>1986-1993</b> <i>Now coded as: B04-A09J</i>	<b>B04-A08A2 #</b>	.. <b>Bryophyta (mosses)</b> <b>2012</b>
<b>B04-A07D2</b>	.. <b>Seeds, husks from seeds, seed meal, cereal, grain</b> <b>1986-1993</b> <i>Now coded as: B04-A09F</i>	<b>B04-A08A3 #</b>	.. <b>Anthocerotophyta (hornworts)</b> <b>2012</b>
<b>B04-A07D3</b>	.. <b>Wood shavings, bark, sawdust</b> <b>1986-1993</b> <i>Now coded as: B04-A09G</i>	<b>B04-A08B #</b>	. <b>Pteridophytes</b> e.g. ferns. <b>1994</b> <i>Previous code(s): B04-A07D5</i>
<b>B04-A07D4</b>	.. <b>Grass, straw, hay, plant stems, sap produced by pressing</b> Excluding B04-A07D3. <b>1986-1993</b> <i>Now coded as: B04-A09H</i>	<b>B04-A08B1 #</b>	.. <b>Psilotopsida</b> <b>2012</b>
<b>B04-A07D5</b>	.. <b>Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture</b> Excluding B04-A07D4. B11-A is also coded. <b>1986-1993</b> <i>Now coded as: B04-A08+, B04-A09A, B04-A09B, B04-A09D</i>	<b>B04-A08B2 #</b>	.. <b>Equisetopsida</b> <b>2012</b>
<b>B04-A07E</b>	. <b>Glycosides, saponins</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. glycyrrhizin is coded B07-A02B. Includes steroidal saponins. <b>1965</b>	<b>B04-A08B3 #</b>	.. <b>Marattiopsida</b> <b>2012</b>
<b>B04-A07F</b>	. <b>Plant extract general</b> <b>1963-1993</b> <i>Now coded as: B04-A10</i>	<b>B04-A08B4 #</b>	.. <b>Polypodiopsida</b> <b>2012</b>
		<b>B04-A08C #</b>	. <b>Spermatophytes</b> <b>1994-2011</b> <i>Previous code(s): B04-A07D5</i>
		<b>B04-A08C1 #</b>	.. <b>Gymnosperms</b> e.g. conifers. <b>1994-2011</b> <i>Previous code(s): B04-A07D5, now coded as B04-A08F+</i>
		<b>B04-A08C2 #</b>	.. <b>Angiosperms</b> e.g. flowering plants, grass, dicotyledons and monocotyledons. <b>1994-2011</b> <i>Previous code(s): B04-A07D5, now coded as B04-A08G+</i>



<b>B04-A08D #</b>	. <b>Fungi (higher)</b> e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. 1994 <i>Previous code(s): B04-A07D5</i>	<b>B04-A09G #</b>	. <b>Wood shaving, bark, sawdust</b> 1994 <i>Previous code(s): B04-A07D3</i>
<b>B04-A08D1 #</b>	.. <b>Ascomycota</b> 2012	<b>B04-A09H #</b>	. <b>Straw, hay, stems, sap, plant resin</b> includes propolis 1994 <i>Previous code(s): B04-A07D4</i>
<b>B04-A08D2 #</b>	.. <b>Basidiomycota</b> 2012	<b>B04-A09J #</b>	. <b>Peat, humic acid</b> 1994 <i>Previous code(s): B04-A07D1</i>
<b>B04-A08F #</b>	. <b>Gymnosperms</b> 2012 <i>Previous code(s): B04-A07D5, B04-A08C1</i>	<b>B04-A09K #</b>	. <b>Fruit</b> 2006 <i>Previous code(s): B04-A09</i>
<b>B04-A08F1 #</b>	.. <b>Pinophyta (conifers)</b> 2012	<b>B04-A10 #</b>	<b>Plant extracts general and other</b> Plant extracts derived from specific plant species are additionally coded in B04-A08. When the use of "Chinese herbal medicine" is claimed this code is applied. 1994 <i>Previous code(s): B04-A07F</i>
<b>B04-A08F2 #</b>	.. <b>Ginkgophyta</b> 2012	<b>B04-A10A #</b>	. <b>Fungal extracts</b> e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. 1994 <i>Previous code(s): B04-A07F1</i>
<b>B04-A08F3 #</b>	.. <b>Cycadophyta (cycads)</b> 2012	<b>B04-A10B #</b>	. <b>Leaf extracts</b> 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A08F4 #</b>	.. <b>Gnetophyta</b> 2012	<b>B04-A10C #</b>	. <b>Flower extracts and extracts from flower parts</b> Excluding pollen. 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A08G #</b>	. <b>Angiosperms</b> 2012 <i>Previous code(s): B04-A07D5, B04-A08C2</i>	<b>B04-A10D #</b>	. <b>Pollen extract</b> 1994 <i>Previous code(s): B04-A07F, B04-B04C2</i>
<b>B04-A08G1 #</b>	.. <b>Monocots</b> 2012	<b>B04-A10E #</b>	. <b>Root extracts</b> 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A08G2 #</b>	.. <b>Dicots</b> 2012	<b>B04-A10F #</b>	. <b>Seed, seed husk, seed meal, cereal, grain and nut extracts</b> 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A09 #</b>	<b>Plant parts general and other</b> Plant parts derived from specific plant species are additionally coded in B04-A08. 1994 <i>Previous code(s): B04-A07D</i>	<b>B04-A10G #</b>	. <b>Wood shaving, bark, sawdust extracts</b> 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A09A #</b>	. <b>Leaves</b> 1994 <i>Previous code(s): B04-A07D5</i>	<b>B04-A10H #</b>	. <b>Straw, hay, stem and sap extracts</b> 1994 <i>Previous code(s): B04-A07F2</i>
<b>B04-A09B #</b>	. <b>Flowers and parts</b> Excluding pollen. 1994 <i>Previous code(s): B04-A07D5</i>		
<b>B04-A09C #</b>	. <b>Pollen</b> 1994 <i>Previous code(s): B04-A07F, B04-B04C2</i>		
<b>B04-A09D #</b>	. <b>Roots</b> 1994 <i>Previous code(s): B04-A07D5</i>		
<b>B04-A09F #</b>	. <b>Seeds, seed husks, seed meal, cereal, grain, nuts, bran</b> 1994 <i>Previous code(s): B04-A07D2</i>		

<b>B04-A10K #</b>	. <b>Fruit extract</b> <i>Previous code(s): B04-A10</i>	2006	<b>B04-B02B3</b>	.. <b>Algae</b> e.g. <i>Spirilla</i> .	1986-1993 <i>Now coded as: B04-F08</i>
<b>B04-A98</b>	<b>Patent with herbal composition</b>	2012	<b>B04-B02B4</b>	.. <b>Viruses</b>	1986-1993 <i>Now coded as: B04-F11</i>
<b>B04-A99</b>	<b>Patent with hybrid plant</b>	2012	<b>B04-B02B5</b>	.. <b>Others</b> e.g. <i>Mycoplasma</i> .	1986-1993 <i>Now coded as: B04-F06, B04-F07, B04-F10A4</i>
<b>B04-B</b>	<b>ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS</b>		<b>B04-B02C</b>	. <b>Enzymes general</b> The code B04-B02C is used when the type of enzyme is unspecified. When specific enzymes are given then these are coded in B04-B02C1 to B04-B02C7 in preference to B04-B02C.	1965-1993 <i>Now coded as: B04-L01</i>
<b>B04-B01</b>	<b>Oils, fats general</b>	1963-1965	<b>B04-B02C1</b>	.. <b>Coenzymes</b>	1977-1993 <i>Now coded as: B04-L02</i>
<b>B04-B01A</b>	. <b>Halogenated oils, waxes, etc.</b>	1965	<b>B04-B02C2</b>	.. <b>Oxidoreductases</b>	1977-1993 <i>Now coded as: B04-L03+</i>
<b>B04-B01B</b>	. <b>Fats, lanolin, lipids, glycolipids</b>	1965	<b>B04-B02C3</b>	.. <b>Hydrolases</b> e.g. <i>chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodornase, collagenase, plasmin, plasminogen.</i>	1977-1993 <i>Now coded as: B04-L05+</i>
<b>B04-B01C</b>	. <b>Oils and waxes general</b>		<b>B04-B02C4</b>	.. <b>Transferases</b>	1986-1993 <i>Now coded as: B04-L04+</i>
<b>B04-B01C1</b>	.. <b>Vegetable oils and waxes</b> e.g. <i>sunflower, soy bean and cotton seed oil.</i>	1986	<b>B04-B02C5</b>	.. <b>Lyases</b>	1986-1993 <i>Now coded as: B04-L06</i>
<b>B04-B01C2</b>	.. <b>Animal oils and waxes</b> e.g. <i>spermaceti, cod liver oil, honeycomb and beeswax.</i>	1986	<b>B04-B02C6</b>	.. <b>Isomerases</b>	1986-1993 <i>Now coded as: B04-L07</i>
<b>B04-B01C3</b>	.. <b>Mineral oils and waxes</b> e.g. <i>vaseline, petroleum liquid paraffin and synthetic oils.</i>	1986	<b>B04-B02C7</b>	.. <b>Ligases (synthetases)</b>	1986-1993 <i>Now coded as: B04-L08</i>
<b>B04-B01D</b>	. <b>Other oil and wax derivatives</b> Oils and waxes that are hydrogenated and/or modified by a polymer. May be applied in conjunction with codes from B04-B01C. <i>Previous code(s): B04-B01C</i>	2010	<b>B04-B02D</b>	. <b>Hormones and steroids general</b> The code B12-G04 or B04-C01 is not additionally applied with B04-B02D2 to B04-B02D4 unless a structure is given in the patent. <i>Now coded as: B04-J01, B04-J02, B04-J03, B04-J04, B04-J05</i>	1965-1993
<b>B04-B02</b>	<b>Microorganisms, hormones, enzymes general</b>	1963-1965			
<b>B04-B02A</b>	. <b>Gibberellins</b>	1965			
<b>B04-B02B</b>	. <b>Microorganisms general</b> <i>Now coded as: B04-F01</i>	1965-1993			
<b>B04-B02B1</b>	.. <b>Bacteria</b> e.g. <i>Staphylococcus, Bacillus, Rickettsia.</i>	1986-1993 <i>Now coded as: B04-F10+</i>			
<b>B04-B02B2</b>	.. <b>Fungi</b> e.g. <i>Candida, Aspergillus.</i>	1986-1993 <i>Now coded as: B04-F09+</i>			

<b>B04-B02D1</b>	<p><b>.. Steroidal hormones (no complete structure)</b> 1986-1993 <i>Now coded as: B04-J02</i></p>	<b>B04-B03C</b>	<p><b>. Oligonucleotides</b> This code is applied whenever the term "Oligonucleotide" is used in a patent, or otherwise to chains of 3 to 6 nucleotide units.  1994 <i>Previous code(s): B04-B04A1, B04-B03B</i></p>
<b>B04-B02D2</b>	<p><b>.. Pancreatic hormones</b> 1986-1993 <i>Now coded as: B04-J03+</i></p>	<b>B04-B03D</b>	<p><b>. Modified nucleosides</b> E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleosides.  2005 <i>Previous code: B04-B03A</i></p>
<b>B04-B02D3</b>	<p><b>.. Thyroid and parathyroid hormone</b> e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives.  1986-1993 <i>Now coded as: B04-J04+</i></p>	<b>B04-B03E</b>	<p><b>. Modified nucleotides</b> E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleotides.  2005 <i>Previous code: B04-B03B</i></p>
<b>B04-B02D4</b>	<p><b>.. Pituitary gland hormones</b> e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adrenocorticotrophic hormone (ACTH) corticotrophic, follicle stimulating (FSH), interstitial cell stimulating, prolactin, ammotrophin, somatotropin, thyroid stimulating, thyrotrophic, thyrotropin, vasopressin, chorionic gonadotropin, luteinising, growth and their derivatives.  1986-1993 <i>Now coded as: B04-J05+</i></p>	<b>B04-B03F</b>	<p><b>. Modified oligonucleotides</b> Compounds where the only modification is one or more deoxyribose sugars are searched as oligonucleotides. For the most general references only.  2018</p>
<b>B04-B02E</b>	<p><b>. Prostaglandins</b> From 197501 prostaglandins are coded B04-B02E only, and no longer according to their chemical structure.  1975-1993 <i>Now coded as: B04-H03+</i></p>	<b>B04-B03F1</b>	<p><b>.. Capped modified oligonucleotides</b> Oligonucleotide must be composed of 7 or fewer nucleobases, see B04-E: for associated capped codes when 8 bases or longer. Includes trinucleotide cap and trinucleotide mRNA cap, particularly those based on m7G (7-methylated-guanine) and analogs.  2024</p>
<b>B04-B03</b>	<p><b>Nucleosides and nucleotides general</b> Coenzymes which are nucleotides are also coded B04-B02C1 (before 1994) or B04-L02 (from 1994). Nucleosides and nucleotides containing xanthine bases are coded B04-B03+ and not B04-A06.  1965</p>	<b>B04-B03F2</b>	<p><b>.. Other modified oligonucleotides</b> Oligonucleotide must be composed of 7 or fewer nucleobases.  2024</p>
<b>B04-B03A</b>	<p><b>. Nucleosides</b> e.g. adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded B04-B03D.  1986</p>	<b>B04-B04</b>	<p><b>Animal extract general</b>  1963-1965</p>
<b>B04-B03B</b>	<p><b>. Nucleotides</b> e.g. adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded B04-B03E.  1986</p>	<b>B04-B04A</b>	<p><b>. Proteins, nucleic acids, cells general</b> For antigens see B04-B04C.  1965-1993 <i>Now coded as: B04-E01, B04-F01, B04-N04, B04-N05, B04-N06</i></p>

<b>B04-B04A1</b>	<p><b>.. DNA, vector DNA, RNA, nucleic acids.</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-E02+, B04-E03+, B04-E04, B04-E05, B04-E06, B04-E07, B04-E08</i></p>	<b>B04-B04C5</b>	<p><b>.. Monoclonal antibody</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-G21</i></p>
<b>B04-B04A2</b>	<p><b>.. Plant cells</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-F08</i></p>	<b>B04-B04C6</b>	<p><b>.. Other antibody including immunoglobulin and hemagglutinin</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-G02, B04-G03, B04-G04, B04-G06, B04-G10, B04-G20, B04-G22</i></p>
<b>B04-B04A3</b>	<p><b>.. Animal cells</b></p> <p>For blood cells see B04-B04D, microbial cells see B04-B02B.</p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-F02, B04-F05, B04-F07</i></p>	<b>B04-B04C7</b>	<p><b>.. Haptens</b></p> <p>A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule.</p> <p style="text-align: right;">1994</p> <p><i>Previous code(s): B04-B04C</i></p>
<b>B04-B04A4</b>	<p><b>.. Proteins from plants and mushrooms</b></p> <p>e.g. gluten.</p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-N01+</i></p>	<b>B04-B04C8</b>	<p><b>.. Cancer antigen</b></p> <p style="text-align: right;">2005</p>
<b>B04-B04A5</b>	<p><b>.. Proteins from microorganisms</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-N03+</i></p>	<b>B04-B04C9</b>	<p><b>.. Allergen</b></p> <p>An antigenic substance capable of producing immediate type hypersensitivity (i.e. an allergic reaction). The specific substance which is allergenic is also coded (e.g. B04-A08C2 + B04-A09C for pollen).</p> <p style="text-align: right;">2005</p>
<b>B04-B04A6</b>	<p><b>.. Proteins from animals or insects</b></p> <p>e.g. gelatin, egg white, glycoproteins, gamma-globulins, silk.</p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-N02+</i></p>	<b>B04-B04D</b>	<p><b>. Blood and derivatives general</b></p> <p style="text-align: right;">1965</p>
<b>B04-B04B</b>	<p><b>. Animal excrements general</b></p> <p style="text-align: right;">1965</p>	<b>B04-B04D1</b>	<p><b>.. Blood cells and derivatives</b></p> <p>Including leucocytes, erythrocytes, lymphocytes. These are not coded under B04-B04A3.</p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-F04</i></p>
<b>B04-B04B1</b>	<p><b>.. Urine</b></p> <p style="text-align: right;">1994</p> <p><i>Previous code(s): B04-B04B</i></p>	<b>B04-B04D2</b>	<p><b>.. Blood proteins</b></p> <p>Excluding blood factors. e.g. serum albumin, hemoglobin, fibrinogen (prior to 198601 see also B04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under B04-H19.</p> <p style="text-align: right;">1986</p>
<b>B04-B04B2</b>	<p><b>.. Faeces</b></p> <p style="text-align: right;">1994</p> <p><i>Previous code(s): B04-B04B</i></p>	<b>B04-B04D3</b>	<p><b>.. Blood factors</b></p> <p>e.g. clotting factors, thrombin (see also B04-B02C3 for prothrombin, fibrinogen).</p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-H01, B04-H13, B04-H14, B04-H15, B04-H19</i></p>
<b>B04-B04C</b>	<p><b>. Antigens, general Antibody (pre-1994)</b></p> <p style="text-align: right;">1965</p> <p><i>Previous code(s): B04-G01</i></p>	<b>B04-B04D4</b>	<p><b>.. Blood serum, plasma</b></p> <p>Excluding B04-B04D2/3.</p> <p style="text-align: right;">1986</p>
<b>B04-B04C1</b>	<p><b>.. Microbial antigen</b></p> <p>When used as a vaccine then B02-V02 is coded (before 1994) or B14-S11+ (from 1994).</p> <p style="text-align: right;">1986</p>		
<b>B04-B04C2</b>	<p><b>.. Other antigens</b></p> <p>Material which is antigenic is also coded.</p> <p style="text-align: right;">1986</p>		
<b>B04-B04C3</b>	<p><b>.. Microbial antibody</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-G07, B04-G08, B04-G09</i></p>		
<b>B04-B04C4</b>	<p><b>.. Anticancer antibody</b></p> <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-G05</i></p>		

<b>B04-B04D5</b>	.. <b>Whole blood</b> Excluding B04-B04D1 to B04-B04D4.	<b>1986</b>	<b>B04-B04M6</b>	.. <b>Trochozoa</b> Includes annelids (worms) and molluscs.	<b>2017</b>
<b>B04-B04E</b>	. <b>Bone, marrow, nails, teeth</b> Includes skin, horn and hair as well as extracts.	<b>1965</b>	<b>B04-B04N</b>	. <b>Eggs</b> Used when the source of the eggs is not specified or where all three subcodes are applicable. Also includes egg parts and egg extracts. Avian eggs code as B04-B04N1 from 201501.	<b>2014</b>
<b>B04-B04F</b>	. <b>Enzyme inhibitors</b> <i>Now coded as: B04-M01</i>	<b>1965-1993</b>	<b>B04-B04N1</b>	.. <b>Avian eggs</b> <i>Previous code(s): B04-B04N</i>	<b>2015</b>
<b>B04-B04G</b>	. <b>Gland extracts</b> Includes saliva, snake venom and musk.	<b>1965</b>	<b>B04-B04N2</b>	.. <b>Fish eggs, fish roe</b>	<b>2015</b>
<b>B04-B04H</b>	. <b>Organ extracts</b> Including extracts from all body organs, such as heart, kidney, liver, placenta, nerve, brain, lung, pancreas, intestine, stomach.	<b>1965</b>	<b>B04-B04N3</b>	.. <b>Eggs from other sources</b> Includes insect and reptile eggs.	<b>2015</b>
<b>B04-B04J</b>	. <b>Metabolic factors</b> <i>Now coded as: B04-H01, B04-H04+, B04-H06+, B04-H08, B04-H09, B04-H10, B04-H12, B04-H13, B04-H14, B04-H16, B04-H17, B04-H18</i>	<b>1965-1993</b>	<hr/> <b>B04-C</b> <b>POLYMERS</b> The generic codes B04-C01, B04-C02 and B04-C03 are only used for general disclosures which would otherwise require several specific codes. Therefore when a specific code is searched, the corresponding generic code must also be searched.		
<b>B04-B04K</b>	. <b>Milk</b> Including derivatives.	<b>1965</b>	<b>B04-C01</b>	<b>Polypeptides general</b> Polypeptides containing four or more peptide units are coded from B04-C01A to B04-C01G only, tripeptides are coded both B04-C01A and according to their chemical structure (in B05 to B10) and dipeptides are coded according to their chemical structures only. Cystine represents two amino acid residues. Polypeptide/protein sequences are further coded under B04-N.	
<b>B04-B04L</b>	. <b>Other mammalian extracts</b> This code is used for mammalian extracts only (from 1994). For whole mammals see B04-P.	<b>1965</b>	<b>B04-C01A</b>	. <b>3 to 5 alpha amino acid residues</b>	<b>1986</b>
<b>B04-B04M</b>	. <b>Other non-mammalian extracts</b> This code is used for non-mammalian extracts only (from 1994). For whole animals see B04-P.	<b>1965</b>	<b>B04-C01B</b>	. <b>6 to 10 alpha amino acid residues</b>	<b>1986</b>
<b>B04-B04M1</b>	.. <b>Arthropod</b>	<b>2012</b>	<b>B04-C01C</b>	. <b>11 to 15 alpha amino acid residues</b>	<b>1986</b>
<b>B04-B04M2</b>	.. <b>Amphibian</b>	<b>2012</b>	<b>B04-C01D</b>	. <b>16 to 20 alpha amino acid residues</b>	<b>1986</b>
<b>B04-B04M3</b>	.. <b>Reptile</b>	<b>2012</b>	<b>B04-C01E</b>	. <b>21 to 25 alpha amino acid residues</b>	<b>1986</b>
<b>B04-B04M4</b>	.. <b>Fish</b>	<b>2012</b>			
<b>B04-B04M5</b>	.. <b>Avian</b>	<b>2012</b>			

<b>B04-C01F</b>	. <b>26 to 30 alpha amino acid residues</b>	1986	<b>B04-C02E1</b>	.. <b>Heparin (optionally modified)</b>	1986
<b>B04-C01G</b>	. <b>31 or more alpha amino acid residues</b> This code also includes proteins of defined amino acid sequence.	1986	<b>B04-C02E2</b>	.. <b>Chondroitin (optionally modified)</b>	1986
<b>B04-C01H</b>	. <b>Modified and/or cyclic peptides</b> Includes analogues. Should be applied in conjunction with a length code selected from B04-C01A to B04-C01G. Not used for peptides cyclised purely by disulfide bridge formation.	2005	<b>B04-C02E3</b>	.. <b>Chitin (optionally modified)</b> The code B04-C02F can also be searched if chitin is obtained from fungal source.	1986
<b>B04-C02</b>	<b>Polysaccharides general</b> These must contain at least 7 sugar residues in sequence.		<b>B04-C02E4</b>	.. <b>Hyaluronic acid (optionally modified)</b>	2012
<b>B04-C02A</b>	. <b>Cellulose and derivatives</b>	1986	<b>B04-C02F</b>	. <b>Polysaccharides from microbial sources</b> Polysaccharide which is modified microbiologically can also be searched under the code for the original polysaccharide.	1986
<b>B04-C02A1</b>	.. <b>Unmodified cellulose</b>	1986	<b>B04-C02V</b>	. <b>Lipopolysaccharide</b> <i>Previous code(s): B04-C02, B04-B01B</i>	1994
<b>B04-C02A2</b>	.. <b>Cellulose ethers</b> e.g. carboxymethylcellulose.	1986	<b>B04-C02X</b>	. <b>Oligosaccharides</b> This code is applied whenever the term oligosaccharide is used in a patent, or otherwise to chains of 3 to 6 sugar units. Tetrahydropyran(furan) are <b>not</b> coded unless they are ring modified.	1994
<b>B04-C02A3</b>	.. <b>Cellulose esters</b> e.g. cellulose acetate.	1986	<b>B04-C03</b>	<b>Polymers general</b>	
<b>B04-C02B</b>	. <b>Starch, dextrin and derivatives</b>	1986	<b>B04-C03A</b>	. <b>Poly N-vinyl-lactams</b>	1975
<b>B04-C02B1</b>	.. <b>Cyclodextrin and derivatives</b>	1986	<b>B04-C03B</b>	. <b>Other addition</b>	1975
<b>B04-C02B2</b>	.. <b>Unmodified starch</b>	1986	<b>B04-C03C</b>	. <b>Polyethers</b> Including thioethers and sulfides.	1975
<b>B04-C02B3</b>	.. <b>Modified starch</b> Includes derivatives of starch such as carboxymethylstarch. <i>Previous code(s): B04-C02B</i>	2010	<b>B04-C03D</b>	. <b>Natural, other condensation</b>	1975
<b>B04-C02B4</b>	.. <b>Dextrin</b>	2012	<b>B04-C03E #</b>	. <b>Dendrimers</b>	2002
<b>B04-C02C</b>	. <b>Dextran</b>	1986	<b>B04-C03F</b>	. <b>Silicones</b> <i>Previous code: B04-C03D</i>	2005
<b>B04-C02D</b>	. <b>Polysaccharides from plant</b> Excluding cellulose, starch, dextran, dextrin. Including pectin, plant gums, alginate, agar. Code(s) for the appropriate plant division(s) are also applied, if source plant(s) known.	1986	<b>B04-D</b>	<b>OTHER NATURAL PRODUCTS</b>	
<b>B04-C02E</b>	. <b>Polysaccharides from animal, bird, reptile or arthropod</b>	1986	<b>B04-D01</b>	<b>Sugars (mono- or disaccharides)</b> This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition. Includes molasses.	

<b>B04-D01A</b>	. <b>Honey</b>	<b>2011</b>
<b>B04-D02</b>	<b>Others</b> Includes any other natural product not covered by other codes e.g. clay, minerals, etc	
<b>B04-D03</b>	<b>Biomass</b>	<b>1994</b>
	<i>Previous code(s): B04-A07D, B04-A07F, B04-B02B, B04-B04B, B04-B04L, B04-B04M</i>	
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<b>B04-E</b>	<b>NUCLEIC ACIDS</b> Nucleic acids contain 7 or more nucleotide residues. E suffix is not appended to the codes in this section.	<b>1994</b>
<b>B04-E01</b>	<b>Nucleic acid general and other</b> This code covers only non-specific or general nucleic acids. It is <b>not</b> used to replace three or more codes for specific forms of DNA/RNA which are all coded individually in section B04-E02 to B04-E08. For example, if a patent claims: (1) a DNA sequence comprising a gene coding for a 5-HT receptor. (2) a plasmid containing (1). (3) a nucleic acid probe. (4) an antisense oligonucleotide. the codes are: B04-B03C, B04-E03D, B04-E05, B04-E06, B04-E08.	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E01A</b>	. <b>DNA</b> Deoxyribonucleic acid.	<b>2018</b>
<b>B04-E01B</b>	. <b>RNA</b> Ribonucleic acid.	<b>2018</b>
<b>B04-E01X</b>	. <b>Capped nucleic acids</b> Includes trinucleotide capped sequences, particularly those based around m7G (7-methylated guanine) and analogs. To be searched alongside all other applicable codes from B04-E relating to the nucleic acid.	<b>2024</b>

<b>B04-E02</b>	<b>Altered DNA coding sequences</b> These codes include engineered, recombinant constructs, chimeric genes, heterologous genes, fusion genes, allelic variants and mutant alleles. The codes include RNA transcripts of these sequences.	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02A</b>	. <b>Encoding antibodies</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02B</b>	. <b>Encoding modifiers of cell function and growth</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02C</b>	. <b>Encoding hormones</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02D</b>	. <b>Encoding receptors</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02E</b>	. <b>Encoding enzymes</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02F</b>	. <b>Encoding other protein/polypeptide</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E02G</b>	. <b>Oncogene</b>	<b>2002</b>
<b>B04-E02H</b>	. <b>Encoding fusion protein</b>	<b>2002</b>
<b>B04-E02J</b>	. <b>Encoding antigens</b>	<b>2007</b>
	<i>Previous code(s): B04-E02F</i>	
<b>B04-E02K</b>	. <b>Encoding nucleic acid</b>	<b>2009</b>
<b>B04-E03</b>	<b>Other DNA coding sequences</b> These codes cover wild type genes and their fragments, and include their RNA transcripts.	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E03A</b>	. <b>Encoding antibodies</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E03B</b>	. <b>Encoding modifiers of cell function and growth</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E03C</b>	. <b>Encoding hormones</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	
<b>B04-E03D</b>	. <b>Encoding receptors</b>	<b>1994</b>
	<i>Previous code(s): B04-B04A1</i>	

<b>B04-E03E</b>	. <b>Encoding enzymes</b> <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E07D</b>	. <b>miRNA</b> Micro RNA.	<b>2005</b>
<b>B04-E03F</b>	. <b>Encoding other protein/polypeptide</b> <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E07E</b>	. <b>shRNA</b> Small hairpin RNA.	<b>2006</b>
<b>B04-E03G</b>	. <b>Oncogene</b>	<b>2002</b>	<b>B04-E07F</b>	. <b>Aptamer</b>	<b>2007</b>
<b>B04-E03H</b>	. <b>Encoding fusion protein</b>	<b>2002-2008</b>	<b>B04-E08</b>	<b>Vectors, plasmids, cosmids, transposons</b> Viral vectors are also coded under virus (B04-F11+).	<b>1994</b>
<b>B04-E03J</b>	. <b>Encoding antigens</b> <i>Previous code(s): B04-E03F</i>	<b>2007</b>	<b>B04-E09</b>	<b>Single Nucleotide Polymorphism (SNP)</b>	<b>2002</b>
<b>B04-E03K</b>	. <b>Encoding nucleic acid</b>	<b>2009</b>	<b>B04-E10</b>	<b>Peptide nucleic acid</b>	<b>2002</b>
<b>B04-E04</b>	<b>Promoters, enhancers, regulatory sequences, upstream activating sequences</b> <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E11</b>	<b>Other analog nucleic acid</b>	<b>2002</b>
<b>B04-E05</b>	<b>Primers, probes</b> Probes can be coded in conjunction with B12-K04G codes, e.g. a probe for detecting cancer is coded B04-E05 and B12-K04G2A. A new method for diagnosing cancer utilising probes is coded B04-E05, B11-C08E5/B11-C08F8 and B12-K04G2A. <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E12</b>	<b>Reporter/marker nucleic acid</b>	<b>2015</b>
<b>B04-E06</b>	<b>Antisense sequences</b> Excluding antisense probes. <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E13</b>	<b>CRISPR</b> Includes SPIDR (Spacer Interspersed Direct Repeats). May be additionally searched with CRISPR nuclease (B04-L05A2) if the system also contains a claimed enzymatic component e.g. CRISPR/Cas system.	<b>2015</b>
<b>B04-E07</b>	<b>Other non-coding sequences</b> This code includes ribozyme, ribosomal, transfer and mitochondrial nucleic acids. <i>Previous code(s): B04-B04A1</i>	<b>1994</b>	<b>B04-E14</b>	<b>Bacterial nucleic acid</b>	<b>2021</b>
<b>B04-E07A</b>	. <b>Ribozyme</b> An RNA molecule that has catalytic activity.	<b>2005</b>	<b>B04-E15</b>	<b>Viral nucleic acid</b>	<b>2021</b>
<b>B04-E07B</b>	. <b>DNAzyme</b> A DNA molecule that has catalytic activity.	<b>2005</b>	<b>B04-E16</b>	<b>Fungal nucleic acid</b>	<b>2022</b>
<b>B04-E07C</b>	. <b>siRNA (short interfering RNA)</b> Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction.	<b>2005</b>	<b>B04-E99</b>	<b>Patent with Geneseq record</b>	<b>2008</b>
			<b>B04-F</b>	<b>CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS</b> E suffix is appended to codes for cells which are products of genetic manipulation, but not to naturally occurring mutant microbial strains, products of cell fusion or mutagenesis.	<b>1994</b>
			<b>B04-F01 #</b>	<b>Cells, microorganisms, transformants, hosts, cell lines, tissue general</b> <i>Previous code(s): B04-B02B, B04-B04A, B04-B04D1</i>	<b>1994</b>



<b>B04-F02 #</b>	<b>Mammal (including human)</b> <i>Previous code(s): B04-B04A3</i>	<b>1994</b>	<b>B04-F04B2D</b>	<b>... Others</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>
<b>B04-F02A #</b>	. <b>Cancer cells/Carcinoma</b>	<b>2002</b>	<b>B04-F05 #</b>	<b>Hybridoma</b> <i>Previous code(s): B04-B04A3</i>	<b>1994</b>
<b>B04-F02B #</b>	. <b>Stem cells</b> Cell that can replicate indefinitely and differentiate into other cells.	<b>2005</b>	<b>B04-F05A #</b>	. <b>Chimeric &amp; fused cells</b> Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under B04-F05.	<b>2005</b>
<b>B04-F02C #</b>	. <b>Progenitor cells</b> Cell that is more advanced than a stem cell, giving rise to a distinct cell lineage.	<b>2017</b>	<b>B04-F06 #</b>	<b>Protozoa</b> <i>Previous code(s): B04-B02B5</i>	<b>1994</b>
<b>B04-F03 #</b>	<b>Sperm, ova (germ cells)</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-F07 #</b>	<b>Other animal</b> <i>Previous code(s): B04-B04A3</i>	<b>1994</b>
<b>B04-F04 #</b>	<b>Blood cells (general)</b> This code covers non-specific blood cells or when three or more specific types of blood cell are mentioned. <i>Previous code(s): B04-B04D1</i>	<b>1994</b>	<b>B04-F07A #</b>	. <b>Arthropod</b>	<b>2002</b>
<b>B04-F04A #</b>	. <b>Red blood cells</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F07B #</b>	. <b>Amphibian</b>	<b>2002</b>
<b>B04-F04B #</b>	. <b>White blood cells (general)</b> This code is used when non-specific white blood cells are mentioned or when three or more white blood cell types are mentioned. <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F07C #</b>	. <b>Reptile</b>	<b>2002</b>
<b>B04-F04B1 #</b>	.. <b>Lymphocytes</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F07D #</b>	. <b>Fish</b>	<b>2002</b>
<b>B04-F04B1A</b>	... <b>T-lymphocytes</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F07E #</b>	. <b>Avian</b>	<b>2006</b>
<b>B04-F04B1B</b>	... <b>B-lymphocytes</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F08 #</b>	<b>Plant/algae</b> <i>Previous code(s): B04-B04A2, B04-B02B3</i>	<b>1994</b>
<b>B04-F04B2 #</b>	.. <b>Other white blood cells</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F08A #</b>	. <b>Algae</b> Includes diatoms.	<b>2008</b>
<b>B04-F04B2A</b>	... <b>Dendritic cells</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F09 #</b>	<b>Yeast/fungus general and other</b> <i>Previous code(s): B04-B02B2</i>	<b>1994</b>
<b>B04-F04B2B</b>	... <b>Macrophages</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F09A #</b>	. <b>Aspergillus</b> e.g. <i>A. nidulans</i> , <i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. niger</i> , <i>A. oryzae</i> . <i>Previous code(s): B04-B02B2</i>	<b>1994</b>
<b>B04-F04B2C</b>	... <b>Neutrophils</b> <i>Previous code(s): B04-F04</i>	<b>2006</b>	<b>B04-F09B #</b>	. <b>Neurospora</b> e.g. <i>N. crassa</i> . <i>Previous code(s): B04-B02B2</i>	<b>1994</b>
			<b>B04-F09C #</b>	. <b>Saccharomyces</b> e.g. <i>S. pombe</i> , <i>S. cerevisiae</i> (brewer's yeast). <i>Previous code(s): B04-B02B2</i>	<b>1994</b>
			<b>B04-F09D #</b>	. <b>Pichia</b> e.g. <i>Pichia pastoris</i> .	<b>2005</b>

<b>B04-F09E #</b>	<b>. Multicellular fungi, non-higher</b> 2005	<b>B04-F10B2 #</b>	<b>.. Mycobacteria</b> e.g. M. tuberculosis, M. bovis, M. leprae, M. phlei, BCG. 1994 <i>Previous code(s): B04-B02B1</i>
<b>B04-F10 #</b>	<b>Bacteria general</b> 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F10B3 #</b>	<b>.. Staphylococcus</b> e.g. S. aureus, S. epidermidis. 1994 <i>Previous code(s): B04-B02B1</i>
<b>B04-F10A #</b>	<b>. Gram-negative genera, general and other</b> 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F10B4 #</b>	<b>.. Streptococcus</b> e.g. S. pyogenes, S. fecalis. 1994 <i>Previous code(s): B04-B02B1</i>
<b>B04-F10A1 #</b>	<b>.. Bordetella</b> e.g. B. pertussis. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F10B5 #</b>	<b>.. Streptomyces</b> e.g. S. griseus, S. scabies. 1994 <i>Previous code(s): B04-B02B1</i>
<b>B04-F10A2 #</b>	<b>.. Borrelia</b> 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F11 #</b>	<b>Viruses</b> Including bacteriophage lambda and viral vectors. 1994 <i>Previous code(s): B04-B02B4</i>
<b>B04-F10A3 #</b>	<b>.. Escherichia</b> e.g. E. coli. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F11A #</b>	<b>. DNA virus general</b> Virus that infects foreign DNA into host cell, which then produces viral protein. 2005
<b>B04-F10A4 #</b>	<b>.. Mycoplasma</b> e.g. M. pneumoniae, M. mycoides. 1994 <i>Previous code(s): B04-B02B</i>	<b>B04-F11A1 #</b>	<b>.. Adenovirus</b> Includes adeno-associated virus. 2007
<b>B04-F10A5 #</b>	<b>.. Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F11B #</b>	<b>. RNA virus general</b> Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced. 2005
<b>B04-F10A6 #</b>	<b>.. Pseudomonas</b> e.g. P. aeruginosa, P. mallei. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F11B1 #</b>	<b>.. Retrovirus</b> 2007
<b>B04-F10A7 #</b>	<b>.. Rickettsia</b> e.g. R. prowazekii. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F11B2 #</b>	<b>.. Coronavirus</b> Including COVID-19. 2021
<b>B04-F10A8 #</b>	<b>.. Salmonella</b> e.g. S. typhi. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F12 #</b>	<b>Minicells &amp; organelles</b> E.g. mitochondria and any sub-cellular particle. 2005
<b>B04-F10A9 #</b>	<b>.. Vibrio</b> e.g. V. cholerae, V. parahemolyticus. 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-F13 #</b>	<b>Platelets</b> 2010
<b>B04-F10B #</b>	<b>. Gram-positive genera, general and other</b> 1994 <i>Previous code(s): B04-B02B1</i>	<b>B04-G</b>	<b>ANTIBODY DEFINED IN TERMS OF ANTIGEN</b> E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology. 1994
<b>B04-F10B1 #</b>	<b>.. Bacillus</b> e.g. B. subtilis. 1994 <i>Previous code(s): B04-B02B1</i>		

<b>B04-G01 #</b>	<b>General and other</b> Also includes general and unspecified immunoglobulins (specific immunoglobulins may be searched under the heading B04-G27)  <i>Previous code(s): B04-B04C</i>	<b>1994</b>	<b>B04-G09A #</b>	<b>. Antifungus antibody</b>	<b>2008</b>
<b>B04-G01A</b>	<b>. Chimeric antibody</b> An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.	<b>2005</b>	<b>B04-G09B #</b>	<b>. Antiprotozoal antibody</b>	<b>2008</b>
<b>B04-G01B #</b>	<b>. Human antibody</b> An antibody produced from a single human cell line.	<b>2005</b>	<b>B04-G10 #</b>	<b>Antiplant antibody</b>  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>
<b>B04-G01C</b>	<b>. Humanised antibody</b> An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response.	<b>2005</b>	<b>B04-G11 #</b>	<b>Antibody binding to another antibody</b> Also includes anti-idiotypic antibody.	<b>2006</b>
<b>B04-G01D #</b>	<b>. Murine antibody</b> An antibody produced from a single mouse cell line.	<b>2005</b>	<b>B04-G12 #</b>	<b>Antiparasitic antibody</b> Antibody acting against parasitic organisms/any kind of parasites other than bacteria, virus, fungi, protozoa.	<b>2011</b>
<b>B04-G02 #</b>	<b>Antimodifier of cell function and growth, antihormone antibody</b>  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>	<b>B04-G20 #</b>	<b>Catalytic antibodies</b> Including abzyme. This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another B04-G code.  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>
<b>B04-G03 #</b>	<b>Antienzyme antibody</b>  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>	<b>B04-G21 #</b>	<b>Monoclonal antibody</b> This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another B04-G code.  <i>Previous code(s): B04-B04C5</i>	<b>1994</b>
<b>B04-G04 #</b>	<b>Antireceptor antibody</b>  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>	<b>B04-G22 #</b>	<b>Polyclonal antibodies</b> This code defines antibodies other than in terms of their antigen and can be applied in conjunction with another B04-G code.  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>
<b>B04-G05 #</b>	<b>Anticancer cell antibody</b>  <i>Previous code(s): B04-B04C4</i>	<b>1994</b>	<b>B04-G23 #</b>	<b>Antibody fragments</b>	<b>2006</b>
<b>B04-G06 #</b>	<b>Antiblood cells antibody</b> e.g. antibody to T-cell, B-cell.  <i>Previous code(s): B04-B04C6</i>	<b>1994</b>	<b>B04-G24 #</b>	<b>Bispecific antibodies</b>	<b>2006</b>
<b>B04-G07 #</b>	<b>Antibacteria antibody</b>  <i>Previous code(s): B04-B04C3</i>	<b>1994</b>	<b>B04-G25 #</b>	<b>Anti-prion protein antibody</b>	<b>2008</b>
<b>B04-G08 #</b>	<b>Antivirus antibody</b>  <i>Previous code(s): B04-B04C3</i>	<b>1994</b>	<b>B04-G26 #</b>	<b>Heterospecific antibody</b> An individual antibody which can bind more than one antigen due to the presence of two or more different binding sites. May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G09 #</b>	<b>Antimicroorganisms (other) antibody</b>  <i>Previous code(s): B04-B04C3</i>	<b>1994</b>			

<b>B04-G27</b>	<b>Immunoglobulins (specific)</b> Only specific immunoglobulins are covered within this coding section. General and unspecified immunoglobulins should be searched using B04-G01.	<b>2016</b>
<b>B04-G27A #</b>	<b>. Immunoglobulin A</b> May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G27D #</b>	<b>. Immunoglobulin D</b> May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G27E #</b>	<b>. Immunoglobulin E</b> May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G27G #</b>	<b>. Immunoglobulin G</b> May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G27M #</b>	<b>. Immunoglobulin M</b> May be searched in conjunction with additional codes from B04-G.	<b>2016</b>
<b>B04-G27X #</b>	<b>. Immunoglobulin X</b> May be searched in conjunction with additional codes from B04-G. Not coded when X is stated in the document to represent an undefined or general immunoglobulin.	<b>2024</b>
<b>B04-G27W #</b>	<b>. Immunoglobulin W</b> Found in sharks and skates; related to mammalian IgD. May be searched in conjunction with additional codes from B04-G.	<b>2021</b>
<b>B04-G27Y #</b>	<b>. Immunoglobulin Y</b> May be searched in conjunction with additional codes from B04-G.	<b>2020</b>

<b>B04-H</b>	<b>MODIFIERS OF CELL FUNCTION AND GROWTH</b> The term "modifier of cell function and growth" includes biological response modifiers (immune system mediators) such as prostaglandins, cytokines, monokines, interleukins, lymphokines (a subset of interleukins), CSFs, interferons, the growth factors, somatomedins and blood factors. All of these are proteins except for prostaglandins.
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The E suffix is appended to codes for molecules produced by exogenous gene expression in host cells as well as derivatives modified at the genetic level.

**1994**

<b>B04-H01 #</b>	<b>Modifier of cell function and growth general and other</b> This code is applied when either a generic term such as cytokine, is used or when a specific substance does not fit into any category covered by B04-H02 to B04-H20B. It also includes blood factors general and other.	<b>1994</b>
	<i>Previous code(s): B02-V03, B04-B02C, B04-B02E, B04-B04A, B04-B04D, B04-C01</i>	
<b>B04-H02 #</b>	<b>Interleukins general and other</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02A #</b>	<b>. Interleukin 1</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02B #</b>	<b>. Interleukin 2</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02C #</b>	<b>. Interleukin 3 (Multi-CSF)</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02D #</b>	<b>. Interleukin 4</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02F #</b>	<b>. Interleukin 5</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02G #</b>	<b>. Interleukin 6</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02H #</b>	<b>. Interleukin 7</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02J #</b>	<b>. Interleukin 8 (NAP "Neutrophil Activating Protein")</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G, B04-B04A</i>	
<b>B04-H02K #</b>	<b>. Interleukin 9</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02L #</b>	<b>. Interleukin 10</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	
<b>B04-H02M #</b>	<b>. Interleukin 11</b>	<b>1994</b>
	<i>Previous code(s): B04-C01G</i>	

<b>B04-H02N #</b>	. <b>Interleukin 12</b> <i>Previous code(s): B04-C01G</i>	1994	<b>B04-H04C #</b>	. <b>GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H02P #</b>	. <b>Interleukin 13</b> <i>Previous code(s): B04-C01G</i>	1994	<b>B04-H04D #</b>	. <b>MEG-CSF (Megakaryocyte Colony Stimulating Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H02Q #</b>	. <b>Interleukins 14-20</b> <i>Previous code(s): B04-H02</i>	2006	<b>B04-H05 #</b>	<b>Interferons general and other</b> <i>Previous code(s): B02-V03</i>	1994
<b>B04-H02R #</b>	. <b>Interleukins 21-25</b> <i>Previous code(s): B04-H02</i>	2006	<b>B04-H05A #</b>	. <b>Interferon alpha</b> <i>Previous code(s): B02-V03</i>	1994
<b>B04-H02S #</b>	. <b>Interleukins 26-30</b> <i>Previous code(s): B04-H02</i>	2006	<b>B04-H05B #</b>	. <b>Interferon beta</b> <i>Previous code(s): B02-V03</i>	1994
<b>B04-H02T #</b>	. <b>Interleukins 31-35</b> <i>Previous code(s): B04-H02</i>	2006	<b>B04-H05C #</b>	. <b>Interferon gamma</b> <i>Previous code(s): B02-V03</i>	1994
<b>B04-H03</b>	<b>Prostaglandins general and other</b> Includes all modified prostaglandins not covered more specifically in subcodes. <i>Previous code(s): B04-B02E</i>	1994	<b>B04-H05D #</b>	. <b>Interferon delta</b> <i>Previous code(s): B02-V03</i>	2024
<b>B04-H03A</b>	. <b>Prostaglandin E1</b> <i>Previous code(s): B04-B02E</i>	1994	<b>B04-H05K #</b>	. <b>Interferon kappa</b> <i>Previous code(s): B02-V03</i>	2024
<b>B04-H03B</b>	. <b>Prostaglandin E2</b> <i>Previous code(s): B04-B02E</i>	1994	<b>B04-H06 #</b>	<b>Growth factors general and other</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H03C</b>	. <b>Prostaglandin F2 alpha</b> <i>Previous code(s): B04-B02E</i>	1994	<b>B04-H06A #</b>	. <b>EGF (Epidermal Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H03D</b>	. <b>Prostacyclin (Prostaglandin I2)</b> <i>Previous code(s): B04-B02E, B06-A02</i>	1994	<b>B04-H06B #</b>	. <b>PDGF (Platelet Derived Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H03F</b>	. <b>Leukotrienes</b> <i>Previous code(s): B04-B02E, B07-A03, B10-B02D, B10-C04D</i>	1994	<b>B04-H06C #</b>	. <b>MDGF (Macrophage Derived Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H03G</b>	. <b>Thromboxanes</b> <i>Previous code(s): B04-B02E, B06-A02, B07-A02</i>	1994	<b>B04-H06D #</b>	. <b>NGF (Nerve Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H04 #</b>	<b>CSFs (Colony Stimulating Factors) General and other</b> <i>Previous code(s): B04-B04J</i>	1994	<b>B04-H06F #</b>	. <b>TGF (Transforming Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H04A #</b>	. <b>G-CSF (Granulocyte Colony Stimulating Factor)</b> <i>Previous code(s): B04-B04J</i>	1994	<b>B04-H06G #</b>	. <b>FGF (Fibroblast Growth Factor)</b> <i>Previous code(s): B04-B04J</i>	1994
<b>B04-H04B #</b>	. <b>M-CSF (Macrophage Colony Stimulating Factor)</b> <i>Previous code(s): B04-B04J</i>	1994	<b>B04-H06H #</b>	. <b>Somatomedins, sulfation factors</b> This code includes IGF's (insulin-like growth factors). <i>Previous code(s): B04-B04J</i>	1994

<b>B04-H06J #</b>	<b>. PGF (Prostatic Growth Factor)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>	<b>B04-H17 #</b>	<b>T-Activin (TA, Thymic factor)</b> <i>Previous code(s): B04-B04A6, B04-B04JB04-H18 # Activin A (EDF, Erythroid differentiation factor)</i> <b>1994</b>
<b>B04-H06K #</b>	<b>. HGF (Hepatocyte Growth Factor)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>	<b>B04-H18 #</b>	<b>Activin A (EDF, Erythroid differentiation factor)</b> <i>Previous code(s): B04-B04A6, B04-B04J</i> <b>1994</b>
<b>B04-H06L #</b>	<b>. Bone morphogenetic protein</b> <b>2002</b>	<b>B04-H19 #</b>	<b>Clotting factors</b> Including: thrombin (fibrinogenase, thrombase), prothrombin (thrombinogen, Factor II), fibrin, fibrinogen (Factor I), Factor III (tissue thromboplastin, tissue factor), Factor V (proaccelerin, accelerator globulin (AcG), labile factor), Factor VII (proconvertin, thrombokinase, autoprothrombin I, serum prothrombin conversion accelerator (SPCA), stable factor), Factor VIII (antihemophilic globulin (AHG), antihemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihemophilic factor B), Factor X (Stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinase), Factor XI (plasma thromboplastin antecedent (PTA), antihemophilic factor C), Factor XII (Hageman factor, glass contact, activation factor), Factor XIII (fibrin stabilising factor (FSF), fibrinase, Laki-Lorand factor (LLF), transglutaminase) and the platelet factors 1, 2, 3 & 4 etc. N.B. Factor IV, which is calcium, is coded B05-A01B. The clot-dissolving proteolytic enzyme plasmin (fibrinolysin) and plasminogen are coded B04-L05C. <b>1994</b>
<b>B04-H06M #</b>	<b>. Vascular endothelial growth factor</b> Also known as VEGF. <i>Previous code(s): B04-H06</i> <b>2006</b>	<b>B04-H20 #</b>	<b>Adhesion and motor molecules general and other</b> e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular adhesion molecule). <b>1994</b> <i>Previous code(s): B04-B04A6, B04-B04C2</i>
<b>B04-H07 #</b>	<b>Erythropoietin (Epo), thrombopoietin</b> <i>Previous code(s): B04-B04A6, B04-B02D, thrombopoietin B04-H06 (pre-2010)</i> <b>1994, 2010</b>		
<b>B04-H08 #</b>	<b>TNF (Tumour Necrosis Factor)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>		
<b>B04-H09 #</b>	<b>LIF (Leukemia Inhibitory Factor)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>		
<b>B04-H10 #</b>	<b>MIS (Mullerian inhibitory substance)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>		
<b>B04-H11 #</b>	<b>MIP (Macrophage inflammatory protein)</b> <i>Previous code(s): B04-B04A6</i> <b>1994</b>		
<b>B04-H12 #</b>	<b>Megakaryocyte potentiator</b> <i>Previous code(s): B04-B04A6, B04-B04J</i> <b>1994</b>		
<b>B04-H13 #</b>	<b>Lymphotoxin (LT)</b> <i>Previous code(s): B04-B04A6, B04-B04D3, B04-B04J</i> <b>1994</b>		
<b>B04-H14 #</b>	<b>PAF (Platelet activating factor)</b> <i>Previous code(s): B04-B04D3, B04-B04J</i> <b>1994</b>		
<b>B04-H15 #</b>	<b>PA (Plasminogen Activator)</b> <i>Previous code(s): B04-B02C3, B04-B04D3</i> <b>1994</b>		
<b>B04-H16 #</b>	<b>SCF (Stem Cell Factor)</b> <i>Previous code(s): B04-B04J</i> <b>1994</b>		

<b>B04-H20A #</b>	. <b>Fibronectin</b>	1994
	<i>Previous code(s): B04-B04A6</i>	
<b>B04-H20B #</b>	. <b>Vitronectin</b>	1994
	<i>Previous code(s): B04-B04A6</i>	
<b>B04-H20C #</b>	. <b>Muscle proteins general</b>	2002
<b>B04-H20C1 #</b>	.. <b>Actin</b>	2002
<b>B04-H20C2 #</b>	.. <b>Myosin</b>	2002
<b>B04-H20C3 #</b>	.. <b>Tropomyosin</b>	2002
<b>B04-H21 #</b>	<b>Integrins</b>	2002
<hr/>		
<b>B04-J</b>	<b>HORMONES</b>	1994
<b>B04-J01 #</b>	<b>Hormones general and other</b> Hormones which are not covered by the B04-J03, B04-J04 and B04-J05 general sub-headings; and are not represented in B04-J06 to B04-J18 are coded here. e.g. generic terms such as hypothalamic, adrenergic, neuropeptide, gastrointestinal and insect hormones.	1994
	<i>Previous code(s): B04-B02D</i>	
<b>B04-J02</b>	<b>Steroidal hormones (no structure)</b> Includes all steroids where no structure is given.	1994
	<i>Previous code(s): B04-B02D1</i>	
<b>B04-J03 #</b>	<b>Pancreatic hormone general and other</b> Including pancreatic polypeptide.	1994
	<i>Previous code(s): B04-B02D2</i>	
<b>B04-J03A #</b>	. <b>Insulin</b>	1994
	<i>Previous code(s): B04-B02D2</i>	
<b>B04-J03B #</b>	. <b>Glucagon</b>	1994
	<i>Previous code(s): B04-B02D2</i>	
<b>B04-J04 #</b>	<b>Thyroid and parathyroid general and other</b> N.B. thyroxine is coded B10-B02E.	1994
	<i>Previous code(s): B04-B02D3</i>	
<b>B04-J04A #</b>	. <b>Calcitonin</b>	1994
	<i>Previous code(s): B04-B02D3</i>	
<b>B04-J04B #</b>	. <b>Parathyroid hormone</b>	1994
	<i>Previous code(s): B04-B02D3</i>	

<b>B04-J05 #</b>	<b>Pituitary gland hormones general and other</b> Including prolactin and human growth hormone.	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05A #</b>	. <b>Oxytocin</b>	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05B #</b>	. <b>ADH (Antidiuretic hormone)</b> Also known as vasopressin.	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05D #</b>	. <b>ACTH (Adrenocorticotrophic hormone, "adrenocorticotropin")</b>	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05F #</b>	. <b>TSH (Thyroid Stimulating Hormone)</b>	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05G #</b>	. <b>MSH (Melanocyte stimulating hormone)</b>	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05H #</b>	. <b>Gonadotropins</b> Including FSH (follicle stimulating hormone), LH (luteinising hormone) and HMG (human menopausal gonadotropin).	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J05J #</b>	. <b>STH (Somatotrophic growth hormone)</b>	1994
	<i>Previous code(s): B04-B02D4</i>	
<b>B04-J06 #</b>	<b>CRH (Corticotropin-releasing hormone)</b> Hormones covered by B04-J06 to B04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones.	1994
	<i>Previous code(s): B04-B02D</i>	
<b>B04-J07 #</b>	<b>GN-RH (Gonadotropin-releasing hormone), LH-RH (Luteinising hormone-releasing hormone)</b>	1994
	<i>Previous code(s): B04-B02D</i>	
<b>B04-J08 #</b>	<b>TRH (Thyrotropin-releasing hormone)</b>	1994
	<i>Previous code(s): B04-B02D</i>	

<b>B04-J09 #</b>	<b>GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor)</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01A #</b>	<b>. Parasympathetic receptor (cholinergic receptor)</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J10 #</b>	<b>Somatostatin</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01B #</b>	<b>. Sympathetic receptor (adrenergic receptor, alpha and beta)</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J11 #</b>	<b>Endorphins/enkephalins</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01C #</b>	<b>. Dopamine receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J12 #</b>	<b>Gastrin/Secretin/Motilin</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01D #</b>	<b>. Serotonin (5-HT) receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J13 #</b>	<b>Cholecystokinin (CCK-PZ, Pancreozymin)</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01F #</b>	<b>. Histamine receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J14 #</b>	<b>Tachykinins (Substance P, SP)</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01G #</b>	<b>. Interleukin receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J15 #</b>	<b>Neurotensin</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01H #</b>	<b>. Prostaglandin/leukotriene/thromboxane receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J16 #</b>	<b>Ecdysone</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01J #</b>	<b>. Growth factor receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J17 #</b>	<b>Juvenile hormone</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01K #</b>	<b>. Other modifier of cell function and growth receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J18 #</b>	<b>Angiotensin</b> <i>Previous code(s): B04-B02D</i>	<b>1994</b>	<b>B04-K01L #</b>	<b>. Steroid receptor</b> e.g. mineralocorticoid, corticosteroid, estrogen receptor. <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-J19 #</b>	<b>Melanin concentrating hormone</b> Also known as MCH, a 19 amino acid cyclic neuropeptide expressed mainly in the hypothalamus. <i>Previous code(s): B04-B02D, B04-J01</i>	<b>2005</b>	<b>B04-K01L1 #</b>	<b>.. Androgen receptors</b>	<b>2005</b>
<b>B04-J99 #</b>	<b>Prohormone</b> e.g. progastrin, procalcitonin. To be coded in conjunction with the active form of the appropriate hormone. <b>2018</b>		<b>B04-K01L2 #</b>	<b>.. Estrogen receptors</b>	<b>2005</b>
<b>B04-K</b>	<b>RECEPTORS</b>	<b>1994</b>	<b>B04-K01L3 #</b>	<b>.. Corticosteroid receptors</b>	<b>2005</b>
<b>B04-K01 #</b>	<b>Receptor general and other</b> Including orphan G-protein coupled receptors. CD4: (1) is coded here when described simply as a receptor, (2) is coded B04-K01U when described as a viral receptor. <b>1994</b> <i>Previous code(s): B04-B04A6</i>		<b>B04-K01L4 #</b>	<b>.. Other steroid receptors</b>	<b>2005</b>
			<b>B04-K01M #</b>	<b>. Insulin receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
			<b>B04-K01N #</b>	<b>. Angiotensin receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
			<b>B04-K01P #</b>	<b>. Other hormone receptor</b> <i>Previous code(s): B04-B04A6</i>	<b>1994</b>



<b>B04-K01Q #</b>	. <b>Lipoprotein (LDL, HDL) receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03 #</b>	<b>Oxidoreductases general and other</b> 1994 <i>Previous code(s): B04-B02C2</i>
<b>B04-K01R #</b>	. <b>Blood cell or blood cell antigen receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03A #</b>	. <b>Oxidases</b> 1994 <i>Previous code(s): B04-B02C2</i>
<b>B04-K01S #</b>	. <b>Cancer cell or cancer cell antigen receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03B #</b>	. <b>Peroxisomes</b> 1994 <i>Previous code(s): B04-B02C2</i>
<b>B04-K01T #</b>	. <b>Bacterial or bacterial antigen receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03C #</b>	. <b>Oxygenases</b> Including cytochrome P450. 1994 <i>Previous code(s): B04-B02C2</i>
<b>B04-K01U #</b>	. <b>Viral or viral antigen receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03D #</b>	. <b>Dehydrogenases, reductases</b> 1994 <i>Previous code(s): B04-B02C2</i>
<b>B04-K01V #</b>	. <b>Other cell, microbe or antigen receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L03E #</b>	. <b>Lipoxygenases</b> 2002
<b>B04-K01W #</b>	. <b>Antibody receptor</b> 1994 <i>Previous code(s): B04-B04A6</i>	<b>B04-L04 #</b>	<b>Transferases general and other</b> 1994 <i>Previous code(s): B04-B02C4</i>
<b>B04-K01X #</b>	. <b>Non-steroidal nuclear (hormone) receptor</b> 2002	<b>B04-L04A #</b>	. <b>DNA/RNA polymerases</b> 1994 <i>Previous code(s): B04-B02C4</i>
<b>B04-K01X1 #</b>	.. <b>Peroxisome proliferator activated receptor (orphan receptor)</b> Also known as PPAR. 2005	<b>B04-L04B #</b>	. <b>Reverse transcriptase</b> 1994 <i>Previous code(s): B04-B02C4</i>
<b>B04-K01X2 #</b>	.. <b>Thyroid receptor</b> 2005	<b>B04-L04C #</b>	. <b>Kinases</b> Any of several enzymes that catalyse the transfer of a phosphate group from ATP to a second substrate. 2005 <i>Previous code(s): B04-L04</i>
<b>B04-K01Y #</b>	. <b>G-protein coupled receptor</b> 2002	<b>B04-L05 #</b>	<b>Hydrolases general and other</b> Including beta-lactamases. 1994 <i>Previous code(s): B04-B02C3</i>
<b>B04-K01Y1 #</b>	.. <b>Melanin concentrating hormone receptor</b> 2005	<b>B04-L05A #</b>	. <b>Esterases</b> Including lipases, nucleases, restriction enzymes, sulfatases, phosphatases. 1994 <i>Previous code(s): B04-B02C3</i>
<b>B04-K01Z #</b>	. <b>Enzyme receptor</b> 2014	<b>B04-L05A1 #</b>	.. <b>Phosphodiesterases</b> 2005
<b>B04-L</b>	<b>ENZYMES</b> Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature. 1994	<b>B04-L05A2 #</b>	.. <b>CRISPR system nucleases</b> Nucleases specifically for application in CRISPR systems e.g. Cas9 and Cpf1. 2017
<b>B04-L01 #</b>	<b>Enzymes, catalytic proteins general and other</b> 1994 <i>Previous code(s): B04-B02C</i>	<b>B04-L05B #</b>	. <b>Glycosidases</b> Including amylases, cellulases, lactases. 1994 <i>Previous code(s): B04-B02C3</i>
<b>B04-L02 #</b>	<b>Coenzymes</b> 1994 <i>Previous code(s): B04-B02C1</i>		

<b>B04-L05C #</b>	. <b>Proteases, peptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, collagenases, elastases.  <i>Previous code(s): B04-B02C3</i>	<b>1994</b>	<b>B04-N01B #</b>	. <b>Fragments of amino acid sequence given</b>  <i>Previous code(s): B04-B04A4</i>	<b>1994</b>
<b>B04-L05C1 #</b>	.. <b>Metalloproteases</b>	<b>2005</b>	<b>B04-N02 #</b>	<b>Animal protein/polypeptide (No sequence)</b>  <i>Previous code(s): B04-B04A6, B04-C01</i>	<b>1994</b>
<b>B04-L06 #</b>	<b>Lyases</b> Including adenylyl cyclases, (de)carboxylases, aldolases, dehydratases.  <i>Previous code(s): B04-B02C5</i>	<b>1994</b>	<b>B04-N02A #</b>	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied.  <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-L07 #</b>	<b>Isomerases</b> Including racemases, tautomerases, epimerases, mutases.  <i>Previous code(s): B04-B02C6</i>	<b>1994</b>	<b>B04-N02B #</b>	. <b>Fragments of amino acid sequence given</b>  <i>Previous code(s): B04-B04A6</i>	<b>1994</b>
<b>B04-L08 #</b>	<b>Ligases</b> Including synthetases, some carboxylases, aromatase. Excludes synthase.  <i>Previous code(s): B04-B02C7</i>	<b>1994</b>	<b>B04-N03 #</b>	<b>Microorganism protein/polypeptide (No sequence)</b>  <i>Previous code(s): B04-B04A5, B04-C01</i>	<b>1994</b>
<b>B04-L09 #</b>	<b>Zymogen and other enzyme precursors</b>	<b>2002</b>	<b>B04-N03A #</b>	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied.  <i>Previous code(s): B04-B04A5</i>	<b>1994</b>
<b>B04-L10 #</b>	<b>Translocases</b> Enzymes in class EC7.	<b>2020</b>	<b>B04-N03B #</b>	. <b>Fragments of amino acid sequence given</b>  <i>Previous code(s): B04-B04A5</i>	<b>1994</b>
<b>B04-M</b>	<b>ENZYME INHIBITORS</b>	<b>1994</b>	<b>B04-N03C #</b>	. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied.  <i>Now coded B04-N03J1</i>	<b>2006-2010</b>
<b>B04-M01 #</b>	<b>Enzyme inhibitors general and other</b> This code is used for enzyme inhibitors with no structure only.  <i>Previous code(s): B04-B04F</i>	<b>1994</b>	<b>B04-N03D #</b>	. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b>  <i>Now coded B04-N03J2</i>	<b>2006-2010</b>
<b>B04-N</b>	<b>OTHER PROTEIN/POLYPEPTIDE</b> This code is used only when a substance is not better defined in preceding sections, e.g. a protein with adenylyl cyclase activity is coded B04-L06 only.	<b>1994</b>	<b>B04-N03E #</b>	. <b>Viral protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied.  <i>Now coded B04-N03K1</i>	<b>2006-2010</b>
<b>B04-N01 #</b>	<b>Plant protein/polypeptide (No sequence)</b>  <i>Previous code(s): B04-B04A4, B04-C01</i>	<b>1994</b>	<b>B04-N03F #</b>	. <b>Viral protein/polypeptide with fragments of amino acid sequence</b>  <i>Now coded B04-N03K2</i>	<b>2006-2010</b>
<b>B04-N01A #</b>	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied.  <i>Previous code(s): B04-B04A4</i>	<b>1994</b>			

<b>B04-N03G #</b>	. <b>Fungal protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied. 2006-2010 Now coded B04-N03L1	<b>B04-N04A #</b>	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied. 1994 Previous code(s): B04-B04A
<b>B04-N03H #</b>	. <b>Fungal protein/polypeptide with fragments of amino acid sequence</b> 2006-2010 Now coded B04-N03L2	<b>B04-N04B #</b>	. <b>Fragments of amino acid sequence given</b> 1994 Previous code(s): B04-B04A
<b>B04-N03J #</b>	. <b>Bacterial protein/polypeptide (No sequence)</b> 2011	<b>B04-N05 #</b>	<b>Lipoprotein</b> Also includes lipopeptides. 1994 Previous code(s): B04-B04A, B04-B01B
<b>B04-N03J1 #</b>	.. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> 2011 Previous code(s): B04-N03C	<b>B04-N06 #</b>	<b>Glycoprotein, peptidoglycan and cytoskeletal proteins</b> 1994 Previous code(s): B04-B04A
<b>B04-N03J2 #</b>	.. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b> 2011 Previous code(s): B04-N03D	<b>B04-N07 #</b>	<b>Ion channel protein</b> 2002
<b>B04-N03K #</b>	. <b>Viral protein/polypeptide (No sequence)</b> 2011	<b>B04-N08</b>	<b>Fusion protein</b> 2002
<b>B04-N03K1 #</b>	.. <b>Viral protein/polypeptide with complete amino acid sequence</b> 2011 Previous code(s): B04-N03E	<b>B04-N09 #</b>	<b>Molecular chaperones and chaperonins</b> E.g. heat shock proteins (HSP). 2005 Previous code(s): B04-N01, B04-N02, B04-N04
<b>B04-N03K2 #</b>	.. <b>Viral protein/polypeptide with fragments of amino acid sequence</b> 2011 Previous code(s): B04-N03F	<b>B04-N10</b>	<b>Prions</b> Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep. 2005 Previous code: B04-N02
<b>B04-N03L #</b>	. <b>Fungal protein/polypeptide (No sequence)</b> 2011	<b>B04-N11 #</b>	<b>Zinc finger proteins</b> Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins. 2005 Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04
<b>B04-N03L1 #</b>	.. <b>Fungal protein/polypeptide with complete amino acid sequence</b> 2011 Previous code(s): B04-N03G	<b>B04-N12 #</b>	<b>Transcription factors general</b> A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription. 2005 Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04
<b>B04-N03L2 #</b>	.. <b>Fungal protein/polypeptide with fragments of amino acid sequence</b> 2011 Previous code(s): B04-N03H	<b>B04-N13 #</b>	<b>Signalling pathway proteins</b> 2006
<b>B04-N04 #</b>	<b>Protein/polypeptide of undefined origin (No sequence)</b> 1994 Previous code(s): B04-B04A, B04-C01	<b>B04-N14</b>	<b>Peptidomimetics</b> 2008

<b>B04-N15</b>	<b>Crystalline form</b> Used in conjunction with other specific protein codes for protein crystals.	<b>2010</b>
<b>B04-N16</b>	<b>Biomarker protein</b> Applied with one or more other codes from section B04 which describe the type of biomarker protein e.g. EGFR used as a biomarker for colorectal cancer would be coded with B04-K01J and B04-N16.	<b>2017</b>
<hr/>		
<b>B04-P</b>	<b>WHOLE ANIMALS</b> E suffix is appended to respective whole animal codes for transgenic animals.	<b>1994</b>
<b>B04-P01 #</b>	<b>Whole animals general and other</b> <i>Previous code(s): B04-B04L, B04-B04M</i>	<b>1994</b>
<b>B04-P01A #</b>	. <b>Laboratory experimental animals</b> e.g. mice, rats. <i>Previous code(s): B04-B04L, B04-B04M</i>	<b>1994</b>
<b>B04-P01B #</b>	. <b>Farm animals</b> e.g. cows, sheep. <i>Previous code(s): B04-B04L, B04-B04M</i>	<b>1994</b>
<b>B04-P01C #</b>	. <b>Arthropods</b> <i>Previous code(s): B04-B04M</i>	<b>1994</b>
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<b>B04-Q</b>	<b>DRUG CONJUGATES GENERAL</b> All portions of the conjugate are additionally coded in the relevant sections.	<b>2013</b>
<b>B04-Q01</b>	<b>Antibody-drug conjugates</b> The antibody is additionally coded in section B04-G.	<b>2013</b>
<b>B04-Q02</b>	<b>Other protein/peptide drug conjugates</b> The protein / peptide is also coded in the appropriate section(s) of B04.	<b>2013</b>
<b>B04-Q03</b>	<b>Synthetic polymer-drug conjugates</b> Also includes drug conjugates with polysaccharides. The polymer/ polysaccharide is additionally coded in B04.	<b>2013</b>

<b>B04-Q04</b>	<b>Nucleic acid-drug conjugates</b> The nucleic acid is additionally coded in section B04-B03 and/or B04-E.	<b>2017</b>
<hr/>		
<b>B04-R</b>	<b>BIOSIMILARS</b> Includes biobetters. Search in conjunction with relevant B-code(s) for the biosimilar product. Applicable only for explicitly claimed biosimilars.	<b>2016</b>

## B05 MISCELLANEOUS

This section covers all inorganic compounds, and also all organic compounds containing elements other than H, C, N, O, S and halogens (other than the exceptions given in the notes). The order of priorities for this group is generally B01A-B02C >> A01A >> A01B >> C01-C08 (e.g. sodium phosphate is only coded as B05-B02A3). The exception to the above is when the anion (of the lower priority) of a metal salt is an important factor in the invention, e.g. effervescent compositions containing sodium bicarbonate are coded B05-C04 and not B05-A01B. Fullerenes and metallocenes are not within the above hierarchy. Sub-group A elements (i.e. metals) when used as salts of organic compounds, are only coded in B05 if the metal is an essential limiting factor of the invention. Otherwise the compound is coded under the parent compound (i.e. acid, alcohol, etc.).

<b>B05-A</b>	<b>METALS AND COMPOUNDS</b>
<b>B05-A01</b>	<b>Group 1, 2, 3 general</b> retired subheading, may not be applied in B  1963-1965
<b>B05-A01A</b>	. <b>Potassium</b> This code is not used for organic compounds unless potassium is an essential pharmaceutically active limiting factor of the invention (e.g. K salts used for treating hypokalemia).  1965
<b>B05-A01B</b>	. <b>Group 1a, 2a, 3a excluding K, B, Ra</b> This code is not used for organic compounds unless the metal is an essential pharmaceutically active limiting factor of the invention.  1965
<b>B05-A02</b>	<b>Group 4a, 5a excluding C, Si, N, P, As</b>
<b>B05-A03</b>	<b>Transition metals, lanthanides and actinides general</b> The generic code B05-A03 is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.
<b>B05-A03A</b>	. <b>Manganese (Mn), iron (Fe), copper (Cu), zinc (Zn), mercury (Hg)</b>  1975

<b>B05-A03A1</b>	.. <b>Manganese (Mn) compounds</b> 2005
<b>B05-A03A2</b>	.. <b>Iron (Fe) compounds</b> 2005
<b>B05-A03A3</b>	.. <b>Copper (Cu) compounds</b> 2005
<b>B05-A03A4</b>	.. <b>Zinc (Zn) compounds</b> 2005
<b>B05-A03A5</b>	.. <b>Mercury (Hg) compounds</b> 2005
<b>B05-A03B</b>	. <b>Others</b> 1975
<b>B05-A03B1</b>	.. <b>Titanium (Ti)</b> 2008
<b>B05-A03B2</b>	.. <b>Silver (Ag)</b> 2008
<b>B05-A03B3</b>	.. <b>Platinum (Pt)</b> 2008 <i>Previous code(s): B05-A03B</i>
<b>B05-A04</b>	<b>Radioactive elements and specific isotopes</b>
<b>B05-A04A</b>	. <b>Deuterium</b> 2007
<b>B05-A04B</b>	. <b>Tritium</b> 2007
<b>B05-A04C</b>	. <b>Carbon isotopes</b> Excludes Carbon-12 2007
<b>B05-A04D</b>	. <b>Iodine isotopes</b> Excludes Iodine-127 2007
<b>B05-A04E</b>	. <b>Other radioactive isotope</b> 2007
<b>B05-A04F</b>	. <b>Other non-radioactive isotope</b> 2007
<b>B05-A05</b>	<b>Alloys</b> May be coded in conjunction with additional codes from B05-A when the constituent metals are known. 2018
<b>B05-A06</b>	<b>Metal chelates</b> Both the metal and the chelating agent(s) are also coded. 2019
<b>B05-B</b>	<b>LESS COMMON NON-METALS AND COMPOUNDS</b>
<b>B05-B01</b>	<b>Boron(B), silicon (Si), arsenic (As), selenium (Se), phosphorus (P) organic general</b> 1963-1965
<b>B05-B01A</b>	. <b>Boron (B) organic</b> 1965

<b>B05-B01B</b>	. Silicon (Si) organic	1965	<b>B05-C</b>	<b>MORE COMMON NON-METALS, COMPOUNDS</b>	
<b>B05-B01C</b>	. Arsenic (As) organic	1965	<b>B05-C</b>	<b>General</b>	
<b>B05-B01D</b>	. Selenium (Se), Tellurium (Te), organic	1965	<b>B05-C01</b>	<b>N (ammonia) inorganic</b> After CPI Week 7501 ammonium salts of phosphorus acids have been coded B05-B02A2.	1965
<b>B05-B01E</b>	. P-C bond heterocyclic	1965	<b>B05-C02</b>	<b>N (nitrate) inorganic</b>	1965
<b>B05-B01F</b>	. P-C bond aromatic	1965	<b>B05-C03</b>	<b>N (others) inorganic</b>	1965
<b>B05-B01G</b>	. P-C bond (cyclo)aliphatic	1965	<b>B05-C04</b>	<b>CO<sub>2</sub>, inorganic (bi)(thio)carbonates</b>	1965
<b>B05-B01H</b>	. P-Hal bond organic	1965	<b>B05-C05</b>	<b>Inorganic S acids, S oxides</b>	1965
<b>B05-B01J</b>	. P-N bond heterocyclic	1965	<b>B05-C06</b>	<b>Elemental C or S</b>	1965
<b>B05-B01K</b>	. P-N bond aromatic	1965	<b>B05-C07</b>	<b>Inorganic compounds containing halogen</b> This code is not used for organic compounds unless a halogen is a member of a heterocyclic ring, or forms a part of an anion, and is an essential pharmaceutically active limiting factor of the invention (e.g. HF salts of amines used as dental agents).	1965
<b>B05-B01L</b>	. P-N bond (cyclo)aliphatic	1965	<b>B05-C08</b>	<b>Others</b>	1965
<b>B05-B01M</b>	. P-O(S) bond heterocyclic	1965	<b>B05-U</b>	<b>FULLERENE TYPE CAGE STRUCTURES</b>	1994
<b>B05-B01N</b>	. P-O(S) bond aromatic	1965	<b>B05-U</b>	<b>General</b>	1994
<b>B05-B01P</b>	. P-O(S) bond (cyclo)aliphatic	1965	<b>B05-U01</b>	<b>Other than carbon only</b>	1994
<b>B05-B02</b>	<b>B, Si, As, Se, P inorganic, inert gases</b>	1963-1965	<b>B05-U02</b>	<b>Carbon only</b>	1994
<b>B05-B02A</b>	. <b>P and inorganic P compounds general</b> The generic code B05-B02A is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	1965	<b>B05-U03</b>	<b>Carbon only nanotubes</b>	2005
<b>B05-B02A1</b>	.. <b>P acids production</b>	1975	<b>B05-U04</b>	<b>Carbon plus heteroatom nanotubes</b>	2005
<b>B05-B02A2</b>	.. <b>Ammonium salts of P acids</b> This code is used also for mixtures containing only ammonium salts of P acids.	1975	<b>B05-U05</b>	<b>Other carbon containing 3-D structures</b>	2005
<b>B05-B02A3</b>	.. <b>P and inorganic P compounds</b>	1975	<b>B05-U05A</b>	. <b>Nanotubes, nanorods, nanohorns</b>	2010
<b>B05-B02B</b>	. <b>Arsenic (As) inorganic</b>	1965	<b>B05-U05B</b>	. <b>Nanofilms</b>	2010
<b>B05-B02C</b>	. <b>Silicon (Si), selenium (Se), tellurium (Te), boron (B) inorganic, inert gases</b>	1965			

<b>B05-U05C</b>	<b>. Nanostructures other than those covered by B05-U05A and B05-U05B</b>	<b>2010</b>
<b>B05-U06</b>	<b>Inorganic nanostructures</b>	<b>2005</b>
<b>B05-V</b>	<b>METALLOCENES</b>	<b>2008</b>
<b>B05-V</b>	<b>Metallocenes</b> e.g. ferrocenes, titanocenes, zirconocenes  <i>Previous code(s): B05+</i>	<b>2008</b>
<b>B05-Z</b>	<b>ORGANOMETALS</b>	<b>2015</b>
<b>B05-Z</b>	<b>Organometal compounds</b> Metals/metalloids present in organic compound, excludes B, Si, As, Se, Te and P. To be searched alongside specific codes for relevant metal(s).	<b>2015</b>

## B06 HETEROCYCLIC FUSED RING

This section is used for fused heterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in B05. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded.

Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential fused heterocyclic ring and either an optional or a variable fused heterocyclic ring, only the essential ring is coded and neither the variable ring nor B06-H. The exception to this is in a composition with a single new/used/produced compound having one essential fused heterocyclic ring and other components with various fused heterocycles - both the specific and B06-H are then coded.

<b>B06-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>B06-A01</b>	<b>1-Benzo-(furan or pyran)</b>
<b>B06-A02</b>	<b>Others with 2 rings</b> (e.g. phenolphthalein)
<b>B06-A03</b>	<b>With more than 2 rings</b>
<b>B06-A03A</b>	<b>. Taxols, taxels</b> e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton
	<b>2006, 2010</b>
<b>B06-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>B06-B01</b>	<b>With 2 rings</b>
<b>B06-B02</b>	<b>With more than 2 rings</b>
<b>B06-C</b>	<b>SOLE HETERO(S) O AND S</b>
<b>B06-C</b>	<b>General</b>
<b>B06-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>B06-D01</b>	<b>Indole</b>
<b>B06-D02</b>	<b>Quinoline</b>
<b>B06-D03</b>	<b>Isoindole, isoquinoline</b>
<b>B06-D04</b>	<b>Others with 2 rings and one N</b>
<b>B06-D05</b>	<b>With 2 rings (5+6 membered) and two N</b>
<b>B06-D06</b>	<b>With 2 rings (both 6 membered) and two N</b>
<b>B06-D07</b>	<b>Others with 2 rings and two N</b>
<b>B06-D08</b>	<b>With 2 rings and 3 N</b>
<b>B06-D09</b>	<b>With 2 rings and 4 N</b>

<b>B06-D10</b>	<b>With 2 rings and &gt; 4 N</b>
<b>B06-D11</b>	<b>Acridine</b>
<b>B06-D12</b>	<b>Dibenzo[b,f]azepine</b>
<b>B06-D13</b>	<b>Others with 3 rings and one N</b>
<b>B06-D14</b>	<b>Phenazine</b>
<b>B06-D15</b>	<b>Carbolines, phenanthrolines</b>
<b>B06-D16</b>	<b>Others with 3 rings and two N</b>
<b>B06-D17</b>	<b>With 3 rings and &gt; 2N</b>
<b>B06-D18</b>	<b>With more than 3 rings</b>
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<b>B06-E</b>	<b>SOLE HETEROS O AND N</b>
<b>B06-E01</b>	<b>Benzoxazole, benzisoxazoles</b>
<b>B06-E02</b>	<b>Benzoxazines</b>
<b>B06-E03</b>	<b>Others with 2 rings</b>
<b>B06-E04</b>	<b>Phenoxazine</b>
<b>B06-E05</b>	<b>Others with more than 2 rings</b>
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<b>B06-F</b>	<b>SOLE HETEROS S AND N</b>
<b>B06-F01</b>	<b>Benzothiazole, benzisothiazoles</b>
<b>B06-F02</b>	<b>Benzothiazines</b>
<b>B06-F03</b>	<b>Others with 2 rings</b>
<b>B06-F04</b>	<b>Phenothiazine</b>
<b>B06-F05</b>	<b>Others with more than 2 rings</b>
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<b>B06-G</b>	<b>SOLE HETEROS O AND S AND N</b>
<b>B06-G</b>	<b>General</b>
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<b>B06-H</b>	<b>FUSED RING, GENERAL</b>
	This code is used for general disclosures when either unspecified fused heterocyclic ring is present or several specific rings are present. Therefore when a specific code is searched, the corresponding generic code must also be searched.
<b>B06-H</b>	<b>General</b>
<hr/>	
<b>B06-S</b>	<b>SPIROFUSED FUSED HETEROCYCLES</b>
	This code is to be applied in conjunction with specific ring code(s) from B06.
<b>B06-S</b>	<b>Spirofused fused heterocycles</b>

2011

## B07 HETEROCYCLICS, MONONUCLEAR

This section is used for monoheterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in B05 only. Likewise, when a fused heterocyclic ring is present, the structure is coded in B06 only. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded.

Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential monoheterocyclic ring and either an optional or a variable monoheterocyclic ring, only the essential ring is coded and neither the variable ring nor B07-H. The exception to this is in a composition with a single new/used/produced compound having one essential monoheterocyclic ring and other components with various monoheterocycles - both the specific and B07-H are then coded.

<b>B07-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>B07-A01</b>	<b>Furan excluding tetrahydrofuran</b>
<b>B07-A02</b>	<b>Tetrahydro-(furan or pyran) general</b>
<b>B07-A02A</b>	. <b>Tetrahydrofuran</b> <span style="float:right">1994</span>
	<i>Previous code(s): B07-A02</i>
<b>B07-A02B</b>	. <b>Tetrahydropyran</b> <span style="float:right">1994</span>
	<i>Previous code(s): B07-A02</i>
<b>B07-A03</b>	<b>Others with one O</b> Including pyran.
<b>B07-A04</b>	<b>With more than one O</b>
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<b>B07-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>B07-B01</b>	<b>Thiophene</b>
<b>B07-B02</b>	<b>Others with one S</b>
<b>B07-B03</b>	<b>Others with more than one S</b>
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<b>B07-C</b>	<b>SOLE HETEROS O AND S</b>
<b>B07-C</b>	<b>General</b>
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<b>B07-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>B07-D01</b>	<b>With one N, 3 or 4 membered</b>
<b>B07-D02</b>	<b>Pyrrole</b> Excluding pyrrolidine.
<b>B07-D03</b>	<b>Pyrrolidine</b>
<b>B07-D04</b>	<b>Pyridine general</b> Excluding piperidine.



<b>B07-D04A</b>	. (Hydro)pyridinium N(V)	1986	<b>B07-H01</b>	Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN	1975
<b>B07-D04B</b>	. Pyridine (optionally substituted) production	1986	<b>B07-H02</b>	Ring linked directly to heteroatom	1975
<b>B07-D04C</b>	. Pyridine (optionally substituted) use	1986	<b>B07-H03</b>	Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN	1975
<b>B07-D04D</b>	. Di- and tetrahydropyridine (optionally substituted)	1986	<b>B07-H04</b>	Other rings	1975
<b>B07-D05</b>	Piperidine		<b>B07-S</b>	<b>SPIROFUSED MONOCYCLIC HETEROCYCLES</b>	
<b>B07-D06</b>	With one N, > 6-membered			This code is to be applied in conjunction with specific ring code(s) from B07.	
<b>B07-D07</b>	With > one N, < 5-membered		<b>B07-S</b>	<b>Spirofused fused heterocycles</b>	2011
<b>B07-D08</b>	Pyrazole				
<b>B07-D09</b>	Imidazole				
<b>B07-D10</b>	<b>Pyr(id)azine</b> Excluding piperazine.				
<b>B07-D11</b>	Piperazine				
<b>B07-D12</b>	Pyrimidine				
<b>B07-D13</b>	Others with more than one N				
<b>B07-E</b>	<b>SOLE HETEROS O AND N</b>				
<b>B07-E01</b>	With one O and one N < 6-membered				
<b>B07-E02</b>	<b>Oxazines</b> Excluding morpholine.				
<b>B07-E03</b>	<b>Morpholine</b>				
<b>B07-E04</b>	<b>Others</b>				
<b>B07-F</b>	<b>SOLE HETEROS S AND N</b>				
<b>B07-F01</b>	With one S and one N < 6-membered				
<b>B07-F02</b>	<b>Thiazines</b>				
<b>B07-F03</b>	<b>Others</b>				
<b>B07-G</b>	<b>SOLE HETEROS O AND S AND N</b>				
<b>B07-G</b>	<b>General</b>				
<b>B07-H</b>	<b>MONONUCLEAR HETEROCYCLICS GENERAL</b> This code is used for general disclosure when either unspecified monoheterocyclic ring system is present in the molecule, or several rings are present. Therefore the generic code must be searched every time when a specific code is searched.				
<b>B07-H</b>	<b>Heterocyclic ring general</b>				

## B08 AROMATICS, POLYCARBOCYCLIC

This section covers compounds containing more than two carbocyclic rings fused together, at least one of which is 6- membered with 3 conjugated double bonds (or quinone derivatives thereof). Mono- and bicyclo-aromatics are coded in B10.

<b>B08-A</b>	<b>At least 6 rings fused</b>	
<b>B08-B</b>	<b>Five rings fused</b>	
<b>B08-C</b>	<b>4 RINGS FUSED</b>	
<b>B08-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>	
<b>B08-C02</b>	<b>Others</b>	
<b>B08-D</b>	<b>3 RINGS FUSED</b>	
<b>B08-D01</b>	<b>6:6:7 carbon atoms per ring</b>	
<b>B08-D02</b>	<b>6:6:6 carbon atoms per ring</b>	
<b>B08-D03</b>	<b>Others</b>	
<b>B08-H</b>	<b>FUSED AROMATIC SYSTEM GENERAL</b>	2002
<b>B08-S</b>	<b>SPIROFUSED POLYCYCLIC AROMATIC RINGS</b> This code is to be applied in conjunction with specific ring code(s) from B08.	
<b>B08-S</b>	<b>Spirofused polycyclic aromatic rings</b>	2011

## B09 ALICYCLICS, POLYCARBOCYCLIC

This section covers compounds containing more than two carbocyclic rings fused together, other than aromatics (see B08). Mono- and bicyclic compounds are coded in B10.

<b>B09-A</b>	<b>At least 6 rings fused</b>	
<b>B09-B</b>	<b>Five rings fused</b>	
<b>B09-C</b>	<b>4 RINGS FUSED</b>	
<b>B09-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>	
<b>B09-C02</b>	<b>Others</b>	
<b>B09-D</b>	<b>3 RINGS FUSED</b>	
<b>B09-D01</b>	<b>6:6:6 carbon atoms per ring</b>	
<b>B09-D02</b>	<b>Others</b>	
<b>B09-H</b>	<b>FUSED ALICYCLIC SYSTEM GENERAL</b>	2002
<b>B09-S</b>	<b>SPIROFUSED POLYCYCLIC ALICYCLIC RINGS</b> This code is to be applied in conjunction with specific ring code(s) from B09.	
<b>B09-S</b>	<b>Spirofused polycyclic alicyclic rings</b>	2011

## B10 AROMATICS AND CYCLOALIPHATICS (MONO AND BICYCLIC ONLY), ALIPHATICS

In this section compounds are coded according to the type of functional group present. Only one code is assigned to a specific compound according to the rule of priorities: A > B > C, and 1 > 2 > 3 etc. Thus B10-A01 is the highest, and B10-J02 the lowest priority code. For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.). For all cyclic derivatives of the groups listed in section B10 see B01 to B07. For groups not listed in section B10, e.g. semicarbazone, the highest priority segment is coded, in this case as B10-A13D.

<b>B10-A</b>	<b>RARER CHEMICAL GROUPS GENERAL</b> Oxygen atoms may be replaced by S, where applicable.
<b>B10-A01</b>	<b>Sulfonium, iodonium, free radicals, carbonium, oxonium, etc.</b>
<b>B10-A02</b>	<b>Halogen bonded to Hal, N or O</b> For halides of acids other than carboxylic (B10-A25) or those containing N-X or O-X (X = halogen) bond (B10-A02) the parent acid is coded. For example a sulfonyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.
<b>B10-A03</b>	<b>Nitrogen oxide, nitroso</b> Includes nitramines
<b>B10-A04</b>	<b>Peroxide, polysulfide</b> Also includes hydroperoxides
<b>B10-A05</b>	<b>Nitrate, nitrite</b>
<b>B10-A06</b>	<b>Quinone</b> Including all derivatives except those with higher priority.
<b>B10-A07</b>	<b>Sugar</b> Only 4 or more carbon monosaccharides with a free keto or aldehyde group together with their oxidised, reduced and substituted derivatives code here. Sugars in which at least one of the aldehyde / keto groups have been converted into an acetal / ketal (i.e. exist in cyclic form) code in B07-A02.

<b>B10-A07A</b>	<ul style="list-style-type: none"> <li>• <b>Unmodified sugars</b> Includes ethers and esters thereof. 7 or more carbons are coded B10-A07E.</li> </ul> <p style="text-align: right;"><b>2005</b></p>
<b>B10-A07B</b>	<ul style="list-style-type: none"> <li>• <b>Sugar alcohols</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code B10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar alcohols) additionally code B10-A07E. Inositol is coded B10-E04A.</li> </ul> <p style="text-align: right;"><b>2005</b></p>
<b>B10-A07C</b>	<ul style="list-style-type: none"> <li>• <b>Sugar acids</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code B10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar acids) additionally code B10-A07E. Uronic acids which contain a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) code here but those in which the hemi-acetal OH has been converted into an ether or ester code in B07-A02. Lactones of sugar alcohols code in the B07-A section.</li> </ul> <p style="text-align: right;"><b>2005</b></p>
<b>B10-A07D</b>	<ul style="list-style-type: none"> <li>• <b>Sugar amines</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by nitrogen. If the sugar contains 7 or more carbons it additionally codes B10-A07E. If the sugar is an oxidised sugar it additionally codes B10-A07C. If the sugar is a reduced sugar it additionally codes B10-A07B.</li> </ul> <p style="text-align: right;"><b>2005</b></p>

<b>B10-A07E</b>	<ul style="list-style-type: none"> <li>• <b>Other sugar derivatives</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemiacetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by atoms other than H, or N. Additionally all 7 or more carbon non-cyclic monosaccharides code here. If the sugar is an oxidised sugar it additionally codes B10-A07C. If the sugar is a reduced sugar it additionally codes B10-A07B. 2005</li> </ul>	<b>B10-A13</b>	<b>Urea, isourea general</b> 1963-1965
<b>B10-A08</b>	<b>Amide of sulfur acid</b>	<b>B10-A13A</b>	<ul style="list-style-type: none"> <li>• <b>(Iso)thiourea</b> 1965</li> </ul>
<b>B10-A09</b>	<b>Sulfur acid</b> 1963-1965	<b>B10-A13B</b>	<ul style="list-style-type: none"> <li>• <b>(Iso)urea general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic code must also be searched. 1965</li> </ul>
<b>B10-A09A</b>	<ul style="list-style-type: none"> <li>• <b>(Thio)Sulfuric(ous) acid</b> Including all derivatives except those with higher priority. 1965</li> </ul>	<b>B10-A13C</b>	<ul style="list-style-type: none"> <li>• <b>Unsubstituted urea</b> 1975</li> </ul>
<b>B10-A09B</b>	<ul style="list-style-type: none"> <li>• <b>(Thio)Sulfonic acids general</b> Including all derivatives except for those with higher priority. 1965</li> </ul>	<b>B10-A13D</b>	<ul style="list-style-type: none"> <li>• <b>Other (iso)urea compounds</b> 1975</li> </ul>
<b>B10-A09C</b>	<ul style="list-style-type: none"> <li>• <b>Other S acids</b> Including all derivatives except those with higher priority. 1965</li> </ul>	<b>B10-A14</b>	<b>(Iso)cyanate, thiocyanide</b>
<b>B10-A10</b>	<b>Sulfone, sulfoxide</b>	<b>B10-A15</b>	<b>(Iso)cyanide</b>
<b>B10-A11</b>	<b>Carbonate general</b> 1963-1965	<b>B10-A16</b>	<b>Azide, azo diazo(nium)</b>
<b>B10-A11A</b>	<ul style="list-style-type: none"> <li>• <b>Thiocarbonic acid</b> Including all derivatives except those with higher priority. 1965</li> </ul>	<b>B10-A17</b>	<b>Biguanide, guanidine, amidine</b>
<b>B10-A11B</b>	<ul style="list-style-type: none"> <li>• <b>Carbonic acid</b> Includes haloformates. 1965</li> </ul>	<b>B10-A18</b>	<b>Hydroxylamine</b> Hydroxylamine itself is coded B05-C03.
<b>B10-A12</b>	<b>Carbamate general</b> 1963-1965	<b>B10-A19</b>	<b>Hydrazine</b> Hydrazine itself is coded B05-C03.
<b>B10-A12A</b>	<ul style="list-style-type: none"> <li>• <b>Dithiocarbamic acid</b> Including all derivatives except those with higher priority. 1965</li> </ul>	<b>B10-A20</b>	<b>Imine</b>
<b>B10-A12B</b>	<ul style="list-style-type: none"> <li>• <b>Monothiocarbamic acid</b> Including all derivatives except those with higher priority. 1965</li> </ul>	<b>B10-A21</b>	<b>Quaternary ammonium (bis or poly)</b> When a patent claims amines and their quaternary ammonium salts, only the amines are coded. Two searches must be made in order to obtain all relevant quaternary ammonium compounds.
<b>B10-A12C</b>	<ul style="list-style-type: none"> <li>• <b>Carbamic acid</b> Including all derivatives except those with higher priorities. 1965</li> </ul>	<b>B10-A22</b>	<b>Quaternary ammonium (mono)</b>
		<b>B10-A23</b>	<b>Acetal, ketal</b>
		<b>B10-A24</b>	<b>Imide</b>
		<b>B10-A25</b>	<b>Acid anhydride, halide (carboxylic only)</b> For halides of acids other than carboxylic (B10-A25) or those containing N-X or O-X (X = halogen) bond (B10-A02) the parent acid is coded. For example a sulfonyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.
		<b>B10-B</b>	<b>AMINES</b>
		<b>B10-B01</b>	<b>Polyamine general</b> 1986
		<b>B10-B01A</b>	<ul style="list-style-type: none"> <li>• <b>Polyamines, at least 1 amine aromatic</b></li> </ul>

		1965		<b>B10-C</b>	<b>CARBOXYLIC ACIDS</b>
<b>B10-B01B</b>	. Polyamines with no amine aromatic	1965		<b>B10-C01</b>	<b>Thiocarboxylic acid</b>
<b>B10-B02</b>	<b>Amino-acid, -ester or -amide general</b> Oxygen atoms in the acid/ester/amide portion may be replaced by S where applicable.	1986		<b>B10-C02</b>	<b>Polycarboxylic acid</b>
<b>B10-B02A</b>	. Amino-acid, -ester or -amide (amine aromatic)	1965		<b>B10-C03</b>	<b>Carboxylic acid and phenol present</b> Or phenolic ester or ether. Oxygen atoms may be replaced by S.
<b>B10-B02B</b>	. Amino-acid, -ester or amide (amine not aromatic) general	1965		<b>B10-C04</b>	<b>Other carboxylic acids general</b>
<b>B10-B02C</b>	. Mixtures containing at least 3 naturally occurring amino acids	1975		<b>B10-C04A</b>	. Carboxylic acid and cycloaliphatic system present
<b>B10-B02D</b>	. Sulfur-containing amino acids Including amides and esters of the acid group(s).	1975		<b>B10-C04B</b>	. Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present Including esters and ethers (of hydroxy) and thio derivatives.
<b>B10-B02E</b>	. Ring-containing amino acid with free acid group or salt	1975		<b>B10-C04C</b>	. Other carboxylic acid and carbocyclic aromatic ring system present
<b>B10-B02F</b>	. Ring-containing amino amide	1975		<b>B10-C04D</b>	. Acyclic hydroxy Including acyclic ether (of hydroxy) and thio derivatives.
<b>B10-B02G</b>	. Ring-containing amino ester	1975		<b>B10-C04E</b>	. General acyclic monocarboxylic acid General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives).
<b>B10-B02H</b>	. Optionally esterified or etherified hydroxy amino acids Including amides and esters of the acid group(s).	1975		<b>B10-C04E1</b>	.. Substituted acyclic monocarboxylic acid
<b>B10-B02J</b>	. Other amino acids Including amides and esters of the acid group(s).	1975		<b>B10-C04E2</b>	.. Polyunsaturated fatty acid
<b>B10-B03</b>	<b>Amino-phenol,-alcohol or ether general</b> Oxygen atoms may be replaced by S, where applicable.	1986		<b>B10-C04E3</b>	.. Monounsaturated fatty acid
<b>B10-B03A</b>	. Amino-phenol, -alcohol or -ether (amine aromatic)	1971		<b>B10-C04E4</b>	.. Other unsaturated monocarboxylic acid
<b>B10-B03B</b>	. Amino-phenol, -alcohol or -ether (amine not aromatic)	1971		<b>B10-C04E5</b>	.. Saturated fatty acid
<b>B10-B04</b>	<b>Amine mono, general</b>	1986		<b>B10-C04E6</b>	.. Other saturated monocarboxylic acid
<b>B10-B04A</b>	. Other aromatic amines	1971		<b>B10-D</b>	<b>ALDEHYDES AND CARBOXYLIC AMIDES</b> Oxygen atoms may be replaced by S, where applicable. These generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made,
<b>B10-B04B</b>	. Other non-aromatic amines	1971			

	corresponding generic codes must also be searched.		
<b>B10-D01</b>	<b>Aldehydes</b>		
<b>B10-D02</b>	<b>Carboxylic amide, thio</b>		
<b>B10-D03</b>	<b>Carboxylic amides</b>		
<b>B10-E</b>	<b>HYDROXY COMPOUNDS</b> Oxygen atoms may be replaced by S, where applicable.		
<b>B10-E01</b>	<b>Thiophenols</b>		
<b>B10-E02</b>	<b>Phenols</b>		
<b>B10-E03</b>	<b>Thioalcohols</b>		
<b>B10-E04</b>	<b>Alcohols general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic codes must also be searched.		
<b>B10-E04A</b>	. <b>Alcohols containing hydroxy attached directly to alicyclic ring</b> Including inositol.		1975
<b>B10-E04B</b>	. <b>Alcohols containing carbocyclic ring(s)</b>		1975
<b>B10-E04C</b>	. <b>Polyalcohols and ethers and esters thereof</b>		1975
<b>B10-E04D</b>	. <b>Other alcohols</b>		1975
<b>B10-F</b>	<b>KETONES</b>		
<b>B10-F01</b>	<b>Thioketones</b>		
<b>B10-F02</b>	<b>Ketones</b>		
<b>B10-G</b>	<b>CARBOXYLIC ESTERS AND NITRO</b> Oxygen atoms may be replaced by S, where applicable.		
<b>B10-G01</b>	<b>Thiocarboxylic esters</b>		
<b>B10-G02</b>	<b>Carboxylic esters</b>		
<b>B10-G03</b>	<b>Nitro</b>		
<b>B10-H</b>	<b>ETHERS AND HALOGENS</b> Oxygen atoms may be replaced by S, where applicable.		
<b>B10-H01</b>	<b>Ethers</b>		
<b>B10-H02</b>	<b>Halogen general</b>		1986
<b>B10-H02A</b>	. <b>F linked to aromatic ring</b>		1965
<b>B10-H02B</b>	. <b>F not linked to aromatic ring</b>		1965
<b>B10-H02C</b>	. <b>Br or I linked to aromatic ring</b>		1965
<b>B10-H02D</b>	. <b>Br or I not linked to aromatic ring</b>		1965
<b>B10-H02E</b>	. <b>Cl linked to aromatic ring</b>		1965
<b>B10-H02F</b>	. <b>Cl not linked to aromatic ring</b>		1965
<b>B10-J</b>	<b>HYDROCARBONS</b>		
<b>B10-J01</b>	<b>-C≡C- may form part of alicyclic ring</b>		1965
<b>B10-J02</b>	<b>Others</b>		1965
<b>B10-J02A</b>	. <b>Terpenes or terpenoids</b> General terpenes or terpenoids of purely hydrocarbon content.		2013

**B11 PROCESSES, APPARATUS**

B11 codes are only used when the inventive feature of the patent cannot be completely described in terms of chemical descriptors in B01 to B10. Test **methods** must be claimed for B11 codes to be applied, i.e. if a compound can be used as a reagent but the test is not claimed, only B12-K04+ codes are applied.

<b>B11-A</b>	<b>FERMENTATION GENERAL</b> Includes fermentation process where microorganisms are not specified	2012
<b>B11-A01</b>	<b>Using microorganisms</b>	1994
<b>B11-A01A</b>	. <b>Using bacteria</b> <i>Previous code(s): B11-A01</i>	2006
<b>B11-A01B</b>	. <b>Using viruses</b> <i>Previous code(s): B11-A01</i>	2006
<b>B11-A01C</b>	. <b>Using fungi</b> <i>Previous code(s): B11-A01</i>	2006
<b>B11-A02</b>	<b>Using enzymes</b>	1994
<b>B11-A02A</b>	. <b>Using oxidoreductases general</b>	2006
<b>B11-A02A1</b>	.. <b>Using oxidases</b>	2006
<b>B11-A02A2</b>	.. <b>Using peroxidases</b>	2006
<b>B11-A02A3</b>	.. <b>Using oxygenases</b>	2006
<b>B11-A02A4</b>	.. <b>Using dehydrogenases, reductases</b>	2006
<b>B11-A02A5</b>	.. <b>Using lipoxygenases</b>	2006
<b>B11-A02B</b>	. <b>Using transferases general</b>	2006
<b>B11-A02B1</b>	.. <b>Using DNA/RNA polymerases</b>	2006
<b>B11-A02B2</b>	.. <b>Using reverse transcriptases</b>	2006
<b>B11-A02B3</b>	.. <b>Using kinases</b>	2006
<b>B11-A02C</b>	. <b>Using hydrolases general</b>	2006
<b>B11-A02C1</b>	.. <b>Using esterases</b>	2006
<b>B11-A02C2</b>	.. <b>Using glycosidases</b>	2006

<b>B11-A02C3</b>	.. <b>Using proteases/peptide hydrolases</b>	2006
<b>B11-A02D</b>	. <b>Using lyases</b>	2006
<b>B11-A02E</b>	. <b>Using isomerases</b>	2006
<b>B11-A02F</b>	. <b>Using ligases</b>	2006
<b>B11-A03</b>	<b>Using algae</b>	2010
<b>B11-A04</b>	<b>Fermentation apparatus</b> Apparatus or device for culturing microorganisms e.g. culturing device of alimentary canal nematodes.	2012
<b>B11-A04A</b>	. <b>Cell/tissue culture apparatus</b> Method and apparatus for culturing and processing of biological cells excluding tissue engineering (coded B11-C04G) e.g. animal cells and other microbial cells.	2014
<b>B11-B</b>	<b>EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION</b> If part of a diagnostic process see B11-C08D.	
<b>B11-B01</b>	<b>Separation of stereoisomers by a biological method</b>	2006
<b>B11-B02</b>	<b>Separation of stereoisomers by other method</b>	2006
<b>B11-B03</b>	<b>Other separation</b> Includes extraction of specific substances from natural products.	2006
<b>B11-B03A</b>	. <b>Method or device for separation of biological molecules</b> Includes methods or devices for extraction of biological substances such as proteins and nucleic acids.	2012
<b>B11-B03B</b>	. <b>Device/methods for concentrating of molecules</b> Includes techniques involving concentrating procedure and distillation process, only for use when the Novelty of the invention.	2013

<b>B11-B03C</b>	. <b>Method or device for extraction of active substances from plant</b> Patents dealing with extraction of active agents from plants. 2016	<b>B11-C01A4</b>	.. <b>Parallel synthesis</b> Process in which each separate starting material is present in a different well of a microarray and the reagent is added simultaneously to all wells so each product is present in a different well. 2005
<b>B11-B03D</b>	. <b>Method or device for extraction of active substance from animals, arthropods</b> Extraction of active substance from animals, arthropods, etc. 2021	<b>B11-C01A5</b>	.. <b>High-volume synthesis</b> Process in which very large numbers of compounds are produced from a large variety of starting materials. 2005
<b>B11-B04</b>	<b>Method or device for removal processes</b> A means of destroying or collecting for subsequent safe disposal of harmful / noxious substances. Substance removed and removing agent are additionally coded, even if they only appear in an example. 2006	<b>B11-C01B</b>	. <b>Apparatus for combinatorial chemistry</b> 2002
<b>B11-B05</b>	<b>Method or device for preservation and/or storage</b> Includes devices as well as methods for preservation and storage relating to preservation. General storage containers are coded in B11-C06. 2009	<b>B11-C01C</b>	. <b>Other processes</b> 2002
<b>B11-B06</b>	<b>Method or device for cleaning and/or sterilization</b> Method or device for cleaning and/or sterilization, such as for medical equipment. 2010	<b>B11-C01C1</b>	.. <b>Stereospecific reactions</b> 2006
<b>B11-C</b>	<b>GENERAL PROCESS, APPARATUS</b>	<b>B11-C01C2</b>	.. <b>Stereoselective reactions</b> 2006
<b>B11-C01</b>	<b>General chemical processes</b> 1971	<b>B11-C01C3</b>	.. <b>Racemisation</b> 2012
<b>B11-C01A</b>	. <b>Combinatorial chemistry</b> 2002	<b>B11-C01D</b>	. <b>Stereochemistry</b> Includes geometrical isomers. 2006
<b>B11-C01A1</b>	.. <b>Library synthesis</b> Used when the patent is describing a technique for producing, rather than using a combinatorial library. 2005	<b>B11-C01E</b>	. <b>Amplification apparatus/processes for production</b> From 2011, the scope of this code has been extended to cover amplification apparatus for production in addition to processes for the same. 2007 <i>Previous code(s): B11-A02B1</i>
<b>B11-C01A2</b>	.. <b>Liquid-phase synthesis</b> Process in which the chemical building blocks are present in solution. 2005	<b>B11-C02</b>	<b>Syringes</b> Also includes filling/loading of syringes. 1971
<b>B11-C01A3</b>	.. <b>Solid-phase synthesis</b> Process in which the chemical building blocks are bound to a polymer. 2005	<b>B11-C02A</b>	. <b>Hypodermic syringes</b> Includes multi-use as well as single-use and moulded disposable syringes. 2005
		<b>B11-C02B</b>	. <b>Needles</b> Should cover all needles, not just those for syringes. Not for microneedles - these are coded under B12-M02F instead. 2005
		<b>B11-C02C</b>	. <b>Syringe components</b> 2006



<b>B11-C02D</b>	<ul style="list-style-type: none"> <li>. <b>Syringe/injector disposal apparatus</b> Covers disposal of all injectors, not just syringes. Also includes syringe needle removing devices and sharps container. <b>2006</b></li> </ul>	<b>B11-C04G</b>	<ul style="list-style-type: none"> <li>. <b>Tissue engineering technologies</b> Includes wound care technologies, stem cell therapeutic applications, and tissue and organ production (e.g. by inkjet printers and tissue scaffolds). <b>2007</b></li> </ul>
<b>B11-C03</b>	<ul style="list-style-type: none"> <li><b>Dispensers</b> <b>1971</b></li> </ul>	<b>B11-C04H</b>	<ul style="list-style-type: none"> <li>. <b>Adaptors, fixing devices, seals</b> Used for e.g. attaching tubes to syringes, attaching catheter tubes to supports. <b>2009</b></li> </ul>
<b>B11-C04</b>	<ul style="list-style-type: none"> <li><b>Machine/device/method for use in/on animal body, general</b> From 2010, the scope of this code has been extended to cover methods used for therapeutic purposes on animal or human body in addition to machines and devices for the same. This code can be applied to condoms, external splints, infra-red heat massagers etc, however such items should either contain, be coated with or be used in conjunction with drugs in order for them to be coded in B and/or C. <b>1971</b></li> </ul>	<b>B11-C04J</b>	<ul style="list-style-type: none"> <li>. <b>Cements, putties</b> Includes bone cement etc. <b>2010</b></li> </ul>
<b>B11-C04A</b>	<ul style="list-style-type: none"> <li>. <b>Implant</b> <b>1977</b></li> </ul>	<b>B11-C04K</b>	<ul style="list-style-type: none"> <li>. <b>Bioelectronics and neurostimulation</b> Includes electroceuticals. May also be searched with B14-S27 <b>2015</b></li> </ul>
<b>B11-C04A1</b>	<ul style="list-style-type: none"> <li>.. <b>Stent</b> <b>2006</b></li> </ul>	<b>B11-C04Z</b>	<ul style="list-style-type: none"> <li>. <b>Non-pharmaceutical alternative therapies</b> Includes therapies such as music therapy, laughter therapy, heat therapy, acupuncture and reiki. Does not include electrical or electromagnetic therapies which are coded in B14-S27 with additionally B11-C04 if the apparatus is also claimed. <b>2012</b></li> </ul>
<b>B11-C04B</b>	<ul style="list-style-type: none"> <li>. <b>Catheter</b> Includes cannula. <b>1977</b></li> </ul>	<b>B11-C05</b>	<ul style="list-style-type: none"> <li><b>Process/ apparatus for producing pharmaceutical, veterinary or agricultural composition</b> Includes tableting machines. Also covers any process for producing drugs or their intermediate products e.g. drug mixer, device for drying a drug, device for crushing a drug. <b>1971</b></li> </ul>
<b>B11-C04C</b>	<ul style="list-style-type: none"> <li>. <b>Injection gun, general</b> <b>2005</b></li> </ul>	<b>B11-C06</b>	<ul style="list-style-type: none"> <li><b>Containers, packing, preserving apparatus, storage tanks, transporting apparatus general</b> <b>1975</b></li> </ul>
<b>B11-C04D</b>	<ul style="list-style-type: none"> <li>. <b>Applicator</b> <b>2005</b></li> </ul>	<b>B11-C06A</b>	<ul style="list-style-type: none"> <li>. <b>Closures, caps</b> <b>1977</b></li> </ul>
<b>B11-C04E</b>	<ul style="list-style-type: none"> <li>. <b>Needle-free injector</b> A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures. <b>2005</b></li> </ul>	<b>B11-C06B</b>	<ul style="list-style-type: none"> <li>. <b>Formulation counting/measuring devices</b> e.g. tablet counting machines, cylinders for measuring solutions, weighing devices. <b>2009</b></li> </ul>
<b>B11-C04F</b>	<ul style="list-style-type: none"> <li>. <b>Artificial organs</b> Including heart-lung machines, kidney dialysis equipment, pacemakers and artificial livers and skin. Includes production of these organs. Not to be confused with Prosthesis (coded B12-M17) or Implants (coded B11-C04A). <b>2005</b></li> </ul>		

<b>B11-C06C</b>	<ul style="list-style-type: none"> <li>. <b>Peripheral devices for therapeutic regimens</b> Includes stands for e.g. infusion devices, tamper alarms.</li> </ul>	<b>2010</b>	<b>B11-C07A7</b>	<ul style="list-style-type: none"> <li>.. <b>Apparatus for antigen-antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention</b></li> </ul>	<b>1986</b>
<b>B11-C06D</b>	<ul style="list-style-type: none"> <li>. <b>Labels and labeling devices</b></li> </ul>	<b>2011</b>	<b>B11-C07B</b>	<ul style="list-style-type: none"> <li>. <b>Colorimetric tests</b> Including fluorescence (excluding B11-C07A).</li> </ul>	<b>1977</b>
<b>B11-C06E</b>	<ul style="list-style-type: none"> <li>. <b>Temperature regulation apparatus</b></li> </ul>	<b>2012</b>	<b>B11-C07B1</b>	<ul style="list-style-type: none"> <li>.. <b>Colorimetric (detection of colour change in a reagent)</b></li> </ul>	<b>1986</b>
<b>B11-C06Z</b>	<ul style="list-style-type: none"> <li>. <b>Safety and tamper-proof devices/methods</b> Applied with one or more other codes from B11-C02, B11-C03, B11-C04 and/or B11-C06. Includes methods and devices to improve patient safety e.g. alarms for incorrect operation of dispensers. Safety caps, previously coded only in B11-C06A, also now coded here.</li> </ul>	<b>2017</b>	<b>B11-C07B2</b>	<ul style="list-style-type: none"> <li>.. <b>Spectrophotometric</b></li> </ul>	<b>1986</b>
<b>B11-C07</b>	<p><b>Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general</b> B11-C07+ and B11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention.</p>	<b>1975</b>	<b>B11-C07B3</b>	<ul style="list-style-type: none"> <li>.. <b>Fluorescence</b></li> </ul>	<b>1986</b>
<b>B11-C07A</b>	<ul style="list-style-type: none"> <li>. <b>Antigen - antibody reaction general</b> Excluding B11-A.</li> </ul>	<b>1977</b>	<b>B11-C07B4</b>	<ul style="list-style-type: none"> <li>.. <b>Chemiluminescence</b></li> </ul>	<b>1986</b>
<b>B11-C07A1</b>	<ul style="list-style-type: none"> <li>.. <b>Production of antigen for test</b></li> </ul>	<b>1986</b>	<b>B11-C07B5</b>	<ul style="list-style-type: none"> <li>.. <b>Radioactive tracer other than B11-C07A3</b></li> </ul>	<b>1986</b>
<b>B11-C07A2</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to colour tracer</b></li> </ul>	<b>1986</b>	<b>B11-C07B6</b>	<ul style="list-style-type: none"> <li>.. <b>Reflectance, light scattering etc.</b></li> </ul>	<b>2005</b>
<b>B11-C07A3</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to radioactive tracer</b></li> </ul>	<b>1986</b>	<b>B11-C07B7</b>	<ul style="list-style-type: none"> <li>.. <b>Apparatus for colorimetric analysis where the apparatus is the novelty of the invention</b></li> </ul>	<b>2009</b>
<b>B11-C07A4</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to enzyme tracer</b></li> </ul>	<b>1986</b>	<b>B11-C08</b>	<p><b>Other methods/apparatus for testing/detection</b> Including new drug screening systems.</p>	<b>1975</b>
<b>B11-C07A5</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to fluorescent or chemiluminescent tracer</b></li> </ul>	<b>1986</b>	<b>B11-C08A</b>	<ul style="list-style-type: none"> <li>. <b>NMR, mass spectroscopy</b> Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under B11-C08G2.</li> </ul>	<b>1986</b>
<b>B11-C07A6</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to other type of carrier</b> e.g. erythrocytes, glass, polymer.</li> </ul>	<b>1986</b>	<b>B11-C08B</b>	<ul style="list-style-type: none"> <li>. <b>Potentiometry, polarography</b></li> </ul>	<b>1986</b>
			<b>B11-C08C</b>	<ul style="list-style-type: none"> <li>. <b>Sampling device and sampling method for testing</b> From 2010, the scope of this code has been extended to cover methods of sampling in addition to devices for the same. Includes both devices and method of sampling, wherein the method of collecting samples is for test and detection purposes.</li> </ul>	<b>1986</b>
			<b>B11-C08C1</b>	<ul style="list-style-type: none"> <li>.. <b>Microfluidic devices</b></li> </ul>	<b>2007</b>

<b>B11-C08C2</b>	<b>.. Manipulation of samples</b> Includes methods or devices for treating biopsy or smear samples to make them easier to view. <b>2014</b>	<b>B11-C08E5</b>	<b>.. Nucleic acid hybridisation test methods, use of nucleic acid probes</b> <b>1994-2018</b> <i>Previous code(s): B11-C08, B11-C08E3</i> <i>Now coded as: B11-C08F8</i>
<b>B11-C08D</b>	<b>. Separation methods of testing and diagnosis general</b> Other than B11-B. <b>1986</b>	<b>B11-C08E6</b>	<b>.. Microarrays and biochips</b> <b>2002</b>
<b>B11-C08D1</b>	<b>.. Electrophoresis</b> <b>1986</b>	<b>B11-C08E7</b>	<b>.. Agonist/antagonist identification</b> <b>2005</b>
<b>B11-C08D2</b>	<b>.. Chromatography, ion exchange</b> Including High Performance Liquid Chromatography (HPLC). <b>1986</b>	<b>B11-C08E8</b>	<b>.. Biosensor</b> To be searched alongside the physicochemical and/or biological parts where present. <b>2016</b>
<b>B11-C08D3</b>	<b>.. Filtration, centrifugation, sedimentation, dialysis</b> <b>1986</b>	<b>B11-C08E9</b>	<b>.. Protein sequencing method</b> Code retired 2018, now coded B11-C08F7B. All document records from 2018 containing this code will be changed to reflect the updated hierarchy and B11-C08E9 will no longer be searchable <b>2018-2018</b>
<b>B11-C08E</b>	<b>. Biological procedures for testing general</b> Other than B11-A and B11-C07A. <b>1986</b>	<b>B11-C08F</b>	<b>. Protein/Gene analysis general</b> <b>2002</b>
<b>B11-C08E1</b>	<b>.. Fermentation of micro-organisms, cell or tissue culture</b> e.g. testing antibiotics by cultivation of microorganisms. <b>1986</b>	<b>B11-C08F1</b>	<b>.. Computational genomics</b> <b>2002-2018</b> <i>Now coded as: B11-C11C1</i>
<b>B11-C08E2</b>	<b>.. Noting physiological responses in animals or plants/modelling diseases</b> e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature. <b>1986</b>	<b>B11-C08F2</b>	<b>.. Experimental genomics</b> <b>2002</b>
<b>B11-C08E3</b>	<b>.. Enzyme processes other than polarography or enzyme labelling</b> Excluding B11-C07A, but including the use of restriction enzymes (endonucleases) and the polymerase chain reaction (PCR). For more specifically described PCR methodologies, up to three additional codes from subsection B11-C08N may be appended (from update 202201). <b>1986</b>	<b>B11-C08F3</b>	<b>.. Computational proteomics</b> <b>2002-2018</b> <i>Now coded as: B11-C11C2</i>
<b>B11-C08E4</b>	<b>.. DNA sequencing methods</b> Other than those involving enzymes. <b>1994-2018</b> <i>Previous code(s): B11-C08, B11-C08E3</i> <i>Now coded as: B11-C08F7A</i>	<b>B11-C08F4</b>	<b>.. Experimental proteomics</b> <b>2002</b>
		<b>B11-C08F5</b>	<b>.. Functional genomics</b> <b>2009</b>
		<b>B11-C08F6</b>	<b>.. Functional proteomics</b> <b>2009</b>
		<b>B11-C08F7</b>	<b>.. Sequencing methods general</b> <b>2019</b>
		<b>B11-C08F7A</b>	<b>... DNA/RNA sequencing methods</b> <b>2019</b> <i>Previous code(s): B11-C08, B11-C08E4</i>
		<b>B11-C08F7B</b>	<b>... Protein sequencing methods</b> Replaces the deleted code B11-C08E9. All affected document records from 2018 will be changed to reflect the updated hierarchy and B11-C08E9 will no longer be searchable <b>2019</b>

<b>B11-C08F8</b>	<p><b>.. Nucleic acid hybridization test methods, use of nucleic acid probes</b></p> <p style="text-align: right;"><b>2019</b></p> <p><i>Previous code(s): B11-C08, B11-C08E5</i></p>	<b>B11-C08N1</b>	<p><b>.. Thermocycling amplification methods</b></p> <p>For three or more specific sub-codes or for general references to thermocycling methods, only the parent code B11-C08N1 is applied. General references to PCR are searched under B11-C08E3.</p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08G</b>	<p><b>. Structural conformation analyzing method for biomolecules</b></p> <p>Prior to 2011, this code covered structural gene/protein analysis only. From 2011, the scope of this code has been extended to cover structural analysis of all biomolecules. Also includes structural analysis of polysaccharide, nucleic acid, lipid, glycoprotein, glycolipid and RNA molecule.</p> <p style="text-align: right;"><b>2002</b></p>	<b>B11-C08N1A</b>	<p><b>... Multiplex PCR</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08G1</b>	<p><b>.. X-ray crystallography</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>B11-C08N1B</b>	<p><b>... Nested PCR</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08G2</b>	<p><b>.. NMR spectroscopy</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>B11-C08N1C</b>	<p><b>... Colony PCR</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08G3</b>	<p><b>.. Electron microscopy</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>B11-C08N1D</b>	<p><b>... Random amplification polymorphism DNA PCR (RAPD-PCR)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08H</b>	<p><b>. Drug design by computer modelling</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>B11-C08N1E</b>	<p><b>... Simple sequence repeat-anchored PCR (SSR-PCR)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08J</b>	<p><b>. Microscopy/ optical processes &amp; apparatus</b></p> <p style="text-align: right;"><b>2005</b></p>	<b>B11-C08N1F</b>	<p><b>... Amplified fragment length polymorphism PCR (AFLP-PCR)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08K</b>	<p><b>. Other analytical apparatus where the apparatus is the novelty of the invention</b></p> <p>Novel apparatus for colorimetric analysis codes as B11-C07B7.</p> <p style="text-align: right;"><b>2009</b></p>	<b>B11-C08N1G</b>	<p><b>... Amplification of refractory mutation system PCR (ARMS-PCR)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08L</b>	<p><b>. Acoustics</b></p> <p>Includes ultrasound, infrasound and vibration.</p> <p style="text-align: right;"><b>2016</b></p>	<b>B11-C08N1H</b>	<p><b>... Restriction fragment length polymorphism (RFLP)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08M</b>	<p><b>. Calorimetry</b></p> <p style="text-align: right;"><b>2020</b></p>	<b>B11-C08N1J</b>	<p><b>... Ligase chain reaction (LCR)</b></p> <p style="text-align: right;"><b>2022</b></p>
<b>B11-C08N</b>	<p><b>. Biological testing methodologies</b></p> <p>This code is a section heading only and is not applied to patents. See the relevant B11-C08N sub-codes instead.</p> <p style="text-align: right;"><b>2022</b></p>	<b>B11-C08N1K</b>	<p><b>... Kompetitive allele specific PCR (KASP)</b></p> <p>Includes Includes allele-specific polymerase chain reaction (ASP-PCR). Code additionally fluorescence (B11-C07B3) for PCR.</p> <p style="text-align: right;"><b>2024</b></p>
		<b>B11-C08N2</b>	<p><b>.. Isothermal amplification methods, general and other</b></p> <p>For three or more specific sub-codes or general references to isothermal methods, only the parent code B11-C08N2 is applied.</p> <p style="text-align: right;"><b>2022</b></p>
		<b>B11-C08N2A</b>	<p><b>... Loop mediated isothermal amplification (LAMP)</b></p> <p>Also includes RT-LAMP.</p> <p style="text-align: right;"><b>2022</b></p>
		<b>B11-C08N2B</b>	<p><b>... Self-sustained sequence replication (3SR)</b></p> <p style="text-align: right;"><b>2022</b></p>

<b>B11-C08N2C</b>	... <b>Strand displacement amplification (SDA)</b>	2022	<b>B11-C10B</b>	. <b>High content screening</b> Whole cell analysis used in drug screening, differs from high-throughput screens which are usually homogenous in vitro assays. Includes analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening.	2005
<b>B11-C08N2D</b>	... <b>Nucleic acid sequence based amplification (NASBA)</b>	2022	<b>B11-C10C</b>	. <b>Protein/gene libraries</b> Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.	2005
<b>B11-C08N2E</b>	... <b>Rolling circle amplification (RCA)</b>	2022	<b>B11-C10D</b>	. <b>Phage display libraries</b>	2005
<b>B11-C08N2F</b>	... <b>Multiple displacement amplification (MDA)</b> Includes Whole Genome Amplification (WGA), Multiple Annealing and Looping Based Amplification Cycles (MALBAC).	2022	<b>B11-C11</b>	<b>General computing methods &amp; apparatus</b> Including media and methods for storing, searching and retrieving data and drug databases. Also for computerised pharmacological models.	2005
<b>B11-C08N2G</b>	... <b>Helicase dependent amplification (HAD)</b>	2022	<b>B11-C11A</b>	. <b>Patient compliance methods &amp; systems</b> Methods concerning patient compliance, e.g. medication reminders.	2005
<b>B11-C08N2H</b>	... <b>Ramification amplification method (RAM)</b>	2022	<b>B11-C11B</b>	. <b>Computerised teaching models</b> Includes computer simulations used to show drug effects, such as in university courses.	2014
<b>B11-C08N2J</b>	... <b>Recombinase polymerase amplification (RPA)</b>	2022	<b>B11-C11C</b>	. <b>Computational protein/nucleic acid analysis</b>	2019
<b>B11-C08N3</b>	.. <b>Real-time analysis</b> To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	2022	<b>B11-C11C1</b>	.. <b>Computational genomics</b> <i>Previous code(s): B11-C08F1</i>	2019
<b>B11-C08N4</b>	.. <b>Rapid analysis</b> To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	2022	<b>B11-C11C2</b>	.. <b>Computational proteomics</b> <i>Previous code(s): B11-C08F3</i>	2019
<b>B11-C09</b>	<b>Other processes, appts.</b> Processes and apparatus not covered elsewhere in section 11.	1975	<b>B11-C12</b>	<b>Nanotechnology (general)</b> Includes nanoswitches made of DNA, nanorobots and DNA origami.	2005
<b>B11-C09A</b>	. <b>Processes</b>	2006			
<b>B11-C09B</b>	. <b>Apparatus</b>	2006			
<b>B11-C10</b>	<b>Screening general</b>	2002			
<b>B11-C10A</b>	. <b>High throughput screening</b>	2002			

<b>B11-C13</b>	<b>Particle engineering</b> Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.	2005
<b>B11-C14</b>	<b>Security systems (e.g. biometric data, retinal scanning, authentication of drugs, DNA labelling for security purposes, etc.)</b>	2008
<b>B11-C15</b>	<b>Biological tools/models/teaching aids</b> Physical entities only. For Computerised teaching models see B11-C11B.	2011
<b>B11-C15A</b>	<b>. Computerised teaching models</b> Includes computer simulations used to show drug effects.	2021
<b>B11-C16</b>	<b>Apparatus specifically for pediatrics or geriatrics</b> Includes apparatus for neonates and adolescents.	2017
<b>B11-C17</b>	<b>Bioprinting</b> Includes pre- and post-bioprinting procedures. Additionally coded with B11-C04G for tissue engineering via bioprinting or B11-C04F for printable organs.	2017

## **B12 DIAGNOSTICS AND FORMULATION TYPES (Therapeutic, Pesticidal, Herbicidal) (pre-1994)**

<b>B12-A</b>	<b>ANTIMICROBIAL TYPE</b>
<b>B12-A01</b>	<b>Antibacterial</b> Antibiotics are only B02. Immunostimulant with B12-A06 (pre-1994). <b>1963-1993</b> <i>Now coded as: B14-A1+</i>
<b>B12-A02</b>	<b>Antifungal, antialgal, antilichen general</b> <b>1963-1993</b> <i>Now coded as: B14-A04+,B14-B08</i>
<b>B12-A02A</b>	<b>. Antialgal</b> <b>1986-1993</b>
<b>B12-A02B</b>	<b>. Antilichen</b> <b>1986-1993</b> <i>Now coded as: B14-B08</i>
<b>B12-A02C</b>	<b>. Antifungal</b> <b>1986-1993</b> <i>Now coded as: B14-A04+</i>
<b>B12-A03</b>	<b>Antileprotic</b> <b>1963-1993</b> <i>Now coded as: B14-A01B1</i>
<b>B12-A04</b>	<b>Antitubercular</b> <b>1963-1993</b> <i>Now coded as: B14-A01B1A</i>
<b>B12-A05</b>	<b>Antivenereal</b> <b>1963-1993</b> <i>Now coded as: B14-N07C, B14-A01A, B14-A01A5</i>
<b>B12-A06</b>	<b>Antiviral</b> Vaccines are only B02-V. Immunostimulant with B12-A01 (pre-1994). <b>1963-1993</b> <i>Now coded as: B14-A02+</i>
<b>B12-A07</b>	<b>Skin and wound treatment</b> <b>1963-1993</b> <i>Now coded as: B14-N17+</i>
<b>B12-A08</b>	<b>Antifouling</b> (prior to 198601 search B12-A02, B12-N01, B12-N04 and B12-N05) <b>1986-1993</b>
<b>B12-B</b>	<b>ANTIPARASITIC TYPE</b>
<b>B12-B01</b>	<b>Amoebicide</b> <b>1963-1993</b> <i>Now coded as: B14-A03A</i>
<b>B12-B02</b>	<b>Anthelmintic</b> <b>1963-1993</b> <i>Now coded as: B14-B03</i>

<b>B12-B03</b>	<b>Antimalarial</b> <i>Now coded as: B14-A03B</i>	<b>1963-1993</b>	<b>B12-D02A</b>	<b>. Autoimmune disease treatment</b> See also B12-D03, B12-D07, B12-D09.	<b>1986-1993</b> <i>Now coded as: B14-G02D</i>
<b>B12-B04</b>	<b>Antiparasitic (general) acaricide</b> <i>Now coded as: B14-B02</i>	<b>1963-1993</b>	<b>B12-D02B</b>	<b>. Immune suppressant</b> Immunomodulatory is also coded as B12-A01 and B12-A06	<b>1986-1993</b> <i>Now coded as B14-G02, B14-G03, B14-G02C</i>
<b>B12-B05</b>	<b>Coccidiostat</b> <i>Now coded as: B14-A03C</i>	<b>1963-1993</b>	<b>B12-D02C</b>	<b>. Complement inhibitor</b>	<b>1986-1993</b> <i>Now coded as B14-G02D</i>
<b>B12-B06</b>	<b>Schistosomicide</b> <i>Now coded as: B14-B03A</i>	<b>1963-1993</b>	<b>B12-D02D</b>	<b>. Anti slow-releasing-substance of anaphylaxis (SRS-A)</b>	<b>1986-1993</b> <i>Now coded as: B14-G02B</i>
<b>B12-B07</b>	<b>Trypanocide</b> <i>Now coded as: B14-A03E</i>	<b>1963-1993</b>	<b>B12-D03</b>	<b>Antiarthritic</b>	<b>1963-1993</b> <i>Now coded as: B14-C09+</i>
<b>B12-C</b>	<b>CNS-ACTIVE TYPE (I)</b>		<b>B12-D04</b>	<b>Anticonvulsant</b>	<b>1963-1993</b> <i>Now coded as: B14-J07</i>
<b>B12-C01</b>	<b>Anesthetic (general)</b> <i>Now coded as: B14-C07</i>	<b>1963-1993</b>	<b>B12-D05</b>	<b>Antiemetic</b>	<b>1963-1993</b> <i>Now coded as: B14-E05</i>
<b>B12-C02</b>	<b>Anesthetic (local)</b> <i>Now coded as: B14-C08</i>	<b>1963-1993</b>	<b>B12-D06</b>	<b>Antihistamine general</b> For gastric secretion inhibitor see also B12-J02.	<b>1963-1993</b> <i>Now coded as: B14-L09</i>
<b>B12-C03</b>	<b>Analeptic</b> <i>Now coded as: B14-J01A2</i>	<b>1963-1993</b>	<b>B12-D06A</b>	<b>. H2 secretion inhibitor</b>	<b>1986-1993</b> <i>Now coded as: B14-L11</i>
<b>B12-C04</b>	<b>Antiparkinsonian drug</b> <i>Now coded as: B14-J01A3</i>	<b>1963-1993</b>	<b>B12-D06B</b>	<b>. H1 inhibitor</b>	<b>1986-1993</b> <i>Now coded as: B14-L10</i>
<b>B12-C05</b>	<b>Central depressant</b> <i>Now coded as: B14-J01B</i>	<b>1963-1993</b>	<b>B12-D07</b>	<b>Antiinflammatory</b>	<b>1963-1993</b> <i>Now coded as: B14-C02, B14-C03</i>
<b>B12-C06</b>	<b>Central stimulant</b> <i>Now coded as: B14-J01A, B14-J01A1</i>	<b>1963-1993</b>	<b>B12-D08</b>	<b>Antipyretic</b>	<b>1963-1993</b> <i>Now coded as: B14-C04, B14-C05</i>
<b>B12-C07</b>	<b>Hypnotic</b> <i>Now coded as: B14-J01B1</i>	<b>1963-1993</b>	<b>B12-D09</b>	<b>Antirheumatic</b>	<b>1963-1993</b> <i>Now coded as: B14-C06</i>
<b>B12-C08</b>	<b>Sedative</b> <i>Now coded as: B14-J01B2</i>	<b>1963-1993</b>	<b>B12-D10</b>	<b>Convulsant</b>	<b>1963-1993</b> <i>Now coded as: B14-J06</i>
<b>B12-C09</b>	<b>Synergist</b> <i>Now coded as: B14-S09</i>	<b>1963-1993</b>	<b>B12-E</b>	<b>AUTONOMIC N.S. ACTIVE TYPE</b>	
<b>B12-C10</b>	<b>Tranquilliser</b> <i>Now coded as: B14-J01B4, B14-J01A4, B14-F02D1, B14-J01, B14-J01B3, B14-N16, B14-S07</i>	<b>1963-1993</b>	<b>B12-E01</b>	<b>Autonomic N.S. active general</b>	<b>1963-1993</b> <i>Now coded as: B14-F02, B14-J02</i>
<b>B12-D</b>	<b>CNS-ACTIVE TYPE (II)</b>				
<b>B12-D01</b>	<b>Analgesic</b> <i>Now coded as: B14-C01</i>	<b>1963-1993</b>			
<b>B12-D02</b>	<b>Antiallergic general</b> <i>Now coded as: B14-G02A</i>	<b>1963-1993</b>			

<b>B12-E02</b>	<b>Muscle relaxant, inotropic</b> See also B12-F01. <b>1963-1993</b> Now coded as: B14-J05, B14-J05A, B14-J05C, B14-J05D	<b>B12-F01C</b>	<b>Cardiovascular, inotropic</b> Before 198602 inotropic was coded B12-E02. <b>1986-1993</b> Now coded as: B14-F01C
<b>B12-E03</b>	<b>Mydriatic/myopic</b> <b>1963-1993</b> Now coded as: B14-J05B	<b>B12-F02</b>	<b>Coronary dilator</b> <b>1963-1993</b> Now coded as: B14-F01D, B14-F01E
<b>B12-E04</b>	<b>Parasympathetic blocker</b> <b>1963-1993</b> Now coded as: B14-J02B+, B14-J05D	<b>B12-F03</b>	<b>Ganglion blocker</b> <b>1963-1993</b> Now coded as: B14-F01F
<b>B12-E05</b>	<b>Parasympathetic stimulant, acetyl choline potentiator</b> <b>1963-1993</b> Now coded as: B14-J02A+	<b>B12-F04</b>	<b>Hypertensive</b> <b>1963-1993</b> Now coded as: B14-F02A
<b>B12-E06</b>	<b>Sympathetic blocker general</b> <b>1963-1993</b> Now coded as: B14-J02D, B14-J02D3	<b>B12-F05</b>	<b>Hypotensive general</b> <b>1963-1993</b> Now coded as: B14-F02B
<b>B12-E06A</b>	<b>Alpha-adrenergic blocker</b> <b>1986-1993</b> Now coded as: B14-J02D1	<b>B12-F05A</b>	<b>Angiotensin converting enzyme inhibitor, renin inhibitor</b> <b>1986-1993</b> Now coded as: B14-F02B1
<b>B12-E06B</b>	<b>Beta-adrenergic blocker</b> <b>1986-1993</b> Now coded as: B14-J02D2	<b>B12-F05B</b>	<b>Calcium entry blockers</b> B12-G01 may also be searched. <b>1986-1993</b> Now coded as: B14-F02B2
<b>B12-E07</b>	<b>Sympathetic stimulant, adrenergic stimulant, adrenaline potentiator</b> <b>1963-1993</b> Now coded as: B14-J02C+	<b>B12-F06</b>	<b>Vasoconstrictor</b> <b>1963-1993</b> Now coded as: B14-F02C
<b>B12-E08</b>	<b>Ulcers (peptic and duodenal)</b> <b>1963-1993</b> Now coded as: B14-E08	<b>B12-F07</b>	<b>Vasodilator</b> <b>1963-1993</b> Now coded as: B14-F02D+
<b>B12-E09</b>	<b>Uterus active</b> <b>1963-1993</b> Now coded as: B14-N14	<hr/>	
<b>B12-F</b>	<b>CARDIOACTIVE TYPE</b> Previous code(s): B14-F	<b>B12-G</b>	<b>METABOLISM ACTIVE TYPE</b>
<b>B12-F01</b>	<b>Cardioactive general</b> <b>1963-1993</b> Now coded as: B14-F01	<b>B12-G01</b>	<b>Antimetabolite general</b> <b>1963-1993</b> Now coded as: B14-J04, B14-L06, B14-L07, B14-L08
<b>B12-F01A</b>	<b>Arrhythmia treatment</b> <b>1986-1993</b> Now coded as: B14-F01A	<b>B12-G01A</b>	<b>Antihormone, antiandrogenic, antiestrogenic, antiprogestational, adrenal cortex inhibitor</b> <b>1986-1993</b> Now coded as: B14-D02+
<b>B12-F01B</b>	<b>Cardiac stimulant</b> Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotoxic, cardiac insufficiency treatment. <b>1986-1993</b> Now coded as: B14-F01B	<b>B12-G01B</b>	<b>Enzyme inhibitor</b> <b>1986-1993</b> Now coded as: B14-D03, B14-D04
		<b>B12-G01B1</b>	<b>Antioxidoreductase</b> <b>1986-1993</b> Now coded as: B14-D05+
		<b>B12-G01B2</b>	<b>Antitransferase</b> <b>1986-1993</b> Now coded as: B14-D06+
		<b>B12-G01B3</b>	<b>Antihydrolase</b> <b>1986-1993</b> Now coded as: B14-D07+



<b>B12-G01B4</b>	<b>.. Antilyase</b> 1986-1993 <i>Now coded as: B14-D08</i>
<b>B12-G01B5</b>	<b>.. Antiisomerase</b> 1986-1993 <i>Now coded as: B14-D09</i>
<b>B12-G01B6</b>	<b>.. Antiligase (antisynthetase)</b> 1986-1993 <i>Now coded as: B14-D10</i>
<b>B12-G02</b>	<b>Choleretic and liver</b> 1963-1993 <i>Now coded as: B14-N12</i>
<b>B12-G03</b>	<b>Diuretic and kidney</b> For urinary tract infections see B12-A01. 1963-1993 <i>Now coded as: B14-F02E, B14-N10</i>
<b>B12-G04</b>	<b>Hormone adrenocortical</b> Including Addison's disease treatment (general). 1963-1993 <i>Now coded as: B14-D01, B14-D01D, B14-D01E, B14-J03</i>
<b>B12-G04A</b>	<b>. Anti-aging, anti-senility, anti-Alzheimer's disease</b> Including non-hormonal treatment. 1986-1993 <i>Now coded as: B14-J01A4</i>
<b>B12-G04B</b>	<b>. Androgenic</b> 1986-1993 <i>Now coded as: B14-D01A</i>
<b>B12-G04C</b>	<b>. Estrogenic</b> 1986-1993 <i>Now coded as: B14-D01B</i>
<b>B12-G04D</b>	<b>. Progestational</b> 1986-1993 <i>Now coded as: B14-D01C</i>
<b>B12-G05</b>	<b>Leukemia treatment</b> 1963-1993 <i>Now coded as: B14-H01A</i>
<b>B12-G06</b>	<b>Thyroid agent</b> 1963-1993 <i>Now coded as: B14-N11</i>
<b>B12-G07</b>	<b>Tumour inhibitor</b> 1963-1993 <i>Now coded as: B14-H01, B14-H01B</i>
<b>B12-H</b>	<b>BLOOD ACTIVE TYPE</b>
<b>B12-H01</b>	<b>Antianemic</b> 1963-1993 <i>Now coded as: B14-F03</i>
<b>B12-H02</b>	<b>Anticoagulant</b> 1963-1993 <i>Now coded as: B14-F04</i>
<b>B12-H03</b>	<b>Antilipemic</b> 1963-1993 <i>Now coded as: B14-F06, B14-F07</i>

<b>B12-H04</b>	<b>Coagulant</b> 1963-1993 <i>Now coded as: B14-F08</i>
<b>B12-H05</b>	<b>Hypoglycemic</b> 1963-1993 <i>Now coded as: B14-F09, B14-F10</i>
<b>B12-H06</b>	<b>Plasma and blood substitutes</b> 1963-1993 <i>Now coded as: B14-F11</i>
<b>B12-J</b>	<b>GASTROINTESTINAL ACTIVE TYPE</b>
<b>B12-J01</b>	<b>Anabolic agent, nutritional, achlorhydria treatment (humans)</b> 1963-1993 <i>Now coded as: B14-E10+, B14-E11</i>
<b>B12-J02</b>	<b>Anorectic, antisecretory</b> 1963-1993 <i>Now coded as: B14-E07, B14-E12</i>
<b>B12-J03</b>	<b>Antacid</b> 1963-1993 <i>Now coded as: B14-E01, B14-E03</i>
<b>B12-J04</b>	<b>Antidiarrheal, antihemorrhoidal</b> 1963-1993 <i>Now coded as: B14-E02, B14-E04</i>
<b>B12-J05</b>	<b>Antidote general</b> 1963-1993 <i>Now coded as: B14-M01, B14-M01C</i>
<b>B12-J05A</b>	<b>. Alcoholism treatment</b> 1986-1993 <i>Now coded as: B14-M01A</i>
<b>B12-J05B</b>	<b>. Antismoking</b> 1986-1993 <i>Now coded as: B14-M01B</i>
<b>B12-J05C</b>	<b>. Anti-heavy metal poisoning</b> 1986-1993 <i>Now coded as: B14-M01D</i>
<b>B12-J05D</b>	<b>. Pesticide or herbicide antidote</b> 1986-1993 <i>Now coded as: B14-M01E</i>
<b>B12-J05E</b>	<b>. Protecting plants from poisons</b> 1986-1993
<b>B12-J06</b>	<b>Emetic</b> 1963-1993 <i>Now coded as: B14-E06</i>
<b>B12-J07</b>	<b>Laxative</b> 1963-1993 <i>Now coded as: B14-E09</i>
<b>B12-J08</b>	<b>Bone disorder treatment, osteoporosis</b> Excluding arthritis treatment (B12-D03) and bone marrow cell disorders (B12-G05). For osteoporosis prior to 198601 search B12-J01. 1986-1993 <i>Now coded as: B14-N01</i>

<b>B12-K</b>	<b>DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)</b>	
<b>B12-K01</b>	<b>Antitussive</b>	<b>1963-1993</b> <i>Now coded as: B14-K01B</i>
<b>B12-K02</b>	<b>Bronchodilator</b>	<b>1963-1993</b> <i>Now coded as: B14-K01D</i>
<b>B12-K03</b>	<b>Contraceptive</b>	<b>1963-1993</b> <i>Now coded as: B14-P01+</i>
<b>B12-K04</b>	<b>Diagnosis and testing general</b>	This section is used for coding substances which are stated to be detecting agents: e.g. a new antibody used for detecting cancer is coded under B04-G and B12-K04G2A only. When the procedure for detecting is described as novel, then the corresponding B11-C07 and B11-C08 codes are also applied. As of 201601, subsection B12-K04A has been retired and the codes reorganised and expanded in new subsection B12-K04G.
<b>B12-K04A</b>	<b>. Diagnosis of diseases or conditions in animals general</b>	Including detection of glucose in blood and ethanol in breath. <b>1986-2015</b> <i>Now coded as B12-K04G</i>
<b>B12-K04A1</b>	<b>.. Diagnosis of tumours, cancer</b>	<b>1986-2015</b> <i>Now coded as B12-K04G2A</i>
<b>B12-K04A2</b>	<b>.. Diagnosis of heart and circulatory disorders</b>	<b>1986-2015</b> <i>Now coded as B12-K04G2B</i>
<b>B12-K04A3</b>	<b>.. Diagnosis of genetic disorders</b>	<b>1986-2015</b> <i>Now coded as B12-K04G2C</i>
<b>B12-K04A4</b>	<b>.. Diagnosis of microbial infections</b>	<b>1986-2015</b> <i>Now coded as B12-K04G1A</i>
<b>B12-K04A4A</b>	<b>... Detection of viral diseases</b>	<b>2005-2015</b> <i>Now coded as B12-K04G1B</i>
<b>B12-K04A4B</b>	<b>... Detection of bacterial diseases</b>	<b>2005-2015</b> <i>Now coded as B12-K04G1C</i>
<b>B12-K04A4C</b>	<b>... Detection of fungal diseases</b>	<b>2015-2015</b> <i>Now coded as B12-K04G1D</i>
<b>B12-K04A5</b>	<b>.. Diagnosis of CNS disorders</b>	<b>1986-2015</b> <i>Now coded as B12-K04G2D</i>
<b>B12-K04A6</b>	<b>.. Diagnosis of pregnancy, testing or measuring sex hormone levels and oestrus cycle</b>	<b>1986-2015</b> <i>Now coded as B12-K04G2E</i>
<b>B12-K04A7</b>	<b>.. Detection of parasites</b>	Including protozoa and helminths. <b>2006-2015</b> <i>Now coded B12-K04G1E</i>
<b>B12-K04A8</b>	<b>.. Diagnosis of immunological disorders</b>	<b>2007-2015</b> <i>Now coded as B12-K04G2F</i>
<b>B12-K04A9</b>	<b>.. Diagnosis of respiratory disorders</b>	Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. <b>2012-2015</b> <i>Now coded as B12-K04G2G</i>
<b>B12-K04A10</b>	<b>.. Diagnosis or detection of endocrine and hormonal diseases</b>	Diagnosis or detection of endocrine and hormonal diseases including thyroid diseases. <b>2015-2015</b> <i>Now coded as B12-K04G2H</i>
<b>B12-K04B</b>	<b>. In vivo radiopharmaceutical diagnostics</b>	Excludes in vivo X-ray and MRI diagnostics, which are coded in B12-K07, and other types of in vivo imaging which are coded in B12-K04C. <b>1986</b>
<b>B12-K04C</b>	<b>. In vivo imaging (other than by X-ray or radiopharmaceuticals)</b>	Including imaging of complete organs, cells e.g. cancer cells, or other biological molecules within a whole body rather than a sample. <b>1986</b>
<b>B12-K04C1</b>	<b>.. Ultrasonics</b>	<b>1994</b> <i>Previous code(s): B12-K04C</i>
<b>B12-K04C2</b>	<b>.. NMR</b>	<b>1994</b> <i>Previous code(s): B12-K04C</i>
<b>B12-K04C3</b>	<b>.. Tomography</b>	Includes PET (positron emission tomography). <b>2007</b>
<b>B12-K04D</b>	<b>. Testing for plant disorders or diseases</b>	<b>1986-2018</b>

<b>B12-K04E</b>	<b>. Testing for substances other than for diseases</b> Not in body fluids.	1986	<b>B12-K04G2C</b>	<b>... Diagnosis of genetic disorders</b> <i>Previous code(s): B12-K04A3</i>	2016
<b>B12-K04E1</b>	<b>.. Drug discovery process</b>	2005	<b>B12-K04G2D</b>	<b>... Diagnosis of CNS disorders</b> <i>Previous code(s): B12-K04A5</i>	2016
<b>B12-K04E2</b>	<b>.. Environmental testing</b> Includes testing for contaminants in rivers.	2005	<b>B12-K04G2E</b>	<b>... Diagnosis of pregnancy, testing or measuring sex hormone levels and estrus cycle</b> <i>Previously coded as: B12-K04A6</i>	2016
<b>B12-K04E3</b>	<b>.. Other drug testing</b> Includes quality control.	2007	<b>B12-K04G2F</b>	<b>... Diagnosis of immunological disorders</b> <i>Previous code(s): B12-K04A8</i>	2016
<b>B12-K04F</b>	<b>. Tests involving nucleic acid, hybridisation probes etc.</b> <i>Previous code(s): B12-K04, B12-K04A</i>	1994	<b>B12-K04G2G</b>	<b>... Diagnosis of respiratory disorders</b> Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis.	2016
<b>B12-K04G</b>	<b>. Diagnosis of diseases or conditions in animals general</b> Including detection of glucose in blood and ethanol in breath. <i>Previous code(s): B12-K04A</i>	2016	<b>B12-K04G2H</b>	<b>... Diagnosis of endocrine and hormonal diseases</b> Including thyroid diseases. <i>Previous code(s): B12-K04A9</i>	2016
<b>B12-K04G1</b>	<b>.. Diagnosis of infections and exogenous disorders</b> <i>Previous code(s): B12-K04A</i>	2016	<b>B12-K04G2I</b>	<b>... Diagnosis of gastrointestinal disorders</b>	2016
<b>B12-K04G1A</b>	<b>... Diagnosis of microbial diseases general and other</b> <i>Previous code(s): B12-K04A4</i>	2016	<b>B12-K04G2J</b>	<b>... Diagnosis of renal and urological disorders</b>	2016
<b>B12-K04G1B</b>	<b>... Detection of viral diseases</b> <i>Previous code(s): B12-K04A4A</i>	2016	<b>B12-K04G2K</b>	<b>... Diagnosis of metabolic disorders</b>	2021
<b>B12-K04G1C</b>	<b>... Detection of bacterial diseases</b> <i>Previous code(s): B12-K04A4B</i>	2016	<b>B12-K05</b>	<b>Expectorant</b> <i>Now coded as: B14-K01E</i>	1963-1993
<b>B12-K04G1D</b>	<b>... Detection of fungal diseases</b> <i>Previous code(s): B12-K04A4C</i>	2016	<b>B12-K06</b>	<b>Respiratory active</b> <i>Now coded as: B14-K01, B14-K01C</i>	1963-1993
<b>B12-K04G1E</b>	<b>... Detection of parasites</b> Including protozoa and helminths. <i>Previous code(s): B12-K04A7</i>	2016	<b>B12-K07</b>	<b>Contrast agents and medium</b> Prior to 2010, this code covered X-ray contrast media only. Includes X-ray and MRI agents and media. Does not include radiopharmaceuticals (coded in B12-K04B) and other in-vivo imaging (coded in B12-K04C). <i>1963</i>	1963
<b>B12-K04G2</b>	<b>.. Diagnosis of endogenous disorders general and other</b>	2016	<b>B12-L</b>	<b>COSMETIC PREPARATION TYPE</b>	
<b>B12-K04G2A</b>	<b>... Diagnosis of tumors, cancer</b> <i>Previous code(s): B12-K04A1</i>	2016	<b>B12-L01</b>	<b>Antiperspirant</b> <i>Now coded as: B14-R03</i>	1963-1993
<b>B12-K04G2B</b>	<b>... Diagnosis of heart and circulatory disorders</b> <i>Previous code(s): B12-K04A2</i>	2016			

<b>B12-L02</b>	<b>Cosmetic</b> <i>Now coded as: B14-R01</i>	<b>1963-1993</b>	<b>B12-M01B3</b>	<b>.. Nebuliser</b> A device which is used to administer a solution of drug in the form of a fine mist for patient to inhale. Air is forced through the drug solution in the drug chamber, changing the liquid into a fine mist which is breathed in through a mask or mouthpiece.	<b>2005</b>
<b>B12-L03</b>	<b>Dental agent</b> <i>Now coded as: B14-N06</i>	<b>1963-1993</b>	<b>B12-M01B4</b>	<b>.. Metered dose inhaler</b>	<b>2008</b>
<b>B12-L04</b>	<b>Ear, nose, eye, mouth and throat preparation</b> <i>Now coded as: B14-N02, B14-N03, B14-N04, B14-N05</i>	<b>1963-1993</b>	<b>B12-M01C</b>	<b>. Smoke</b> Also includes incense.	<b>1986</b>
<b>B12-L05</b>	<b>Hair preparation</b> <i>Now coded as: B14-R02</i>	<b>1963-1993</b>	<b>B12-M01D</b>	<b>. Intranasal</b> <i>Now coded as: B12-M12Q</i>	<b>2002-2006</b>
<b>B12-L06</b>	<b>Insect repellent</b> <i>Now coded as: B14-B05</i>	<b>1963-1993</b>	<b>B12-M01E</b>	<b>. Other gaseous forms</b>	<b>2005</b>
<b>B12-L07</b>	<b>Perfume</b> <i>Now coded as: B14-R04</i>	<b>1963-1993</b>	<b>B12-M02</b>	<b>Cream, gel, ointment, plaster</b>	
<b>B12-L08</b>	<b>Sunscreen agent</b> <i>Now coded as: B14-R05</i>	<b>1963-1993</b>	<b>B12-M02A</b>	<b>. Toothpaste, toothpowder</b> From 198601 B12-L03 is not additionally applied.	<b>1986</b>
<b>B12-L09</b>	<b>Veterinary</b>	<b>1963-1993</b>	<b>B12-M02B</b>	<b>. Ointment, cream, lotion</b> Includes liniment, paste, balm and other general oil-based formulations.	<b>1986</b>
<b>B12-L10</b>	<b>Agricultural composition general</b>	<b>1966-1993</b>	<b>B12-M02C</b>	<b>. Cataplasm, poultice</b> Applying heat.	<b>1986</b>
<b>B12-M</b>	<b>FORMULATIONS TYPE</b> Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.		<b>B12-M02D</b>	<b>. Adhesive sheet, sticking plaster, bandage, gauze</b> From 2006, the scope of this code has been extended to cover adhesive sheets in addition to sticking plasters and bandages. Also includes gauze. Excluding B12-M02C.	<b>1986</b>
<b>B12-M01</b>	<b>Aerosol, inhalent, smoke general</b>		<b>B12-M02E</b>	<b>. Dusting powder</b> Topical use only.	<b>1986</b>
<b>B12-M01A</b>	<b>. Aerosol</b>	<b>1986</b>	<b>B12-M02F</b>	<b>. Transdermal</b> Administration of a drug through dermal or mucosal membrane. Includes microneedles.	<b>1986</b>
<b>B12-M01B</b>	<b>. Inhalent</b>	<b>1986</b>	<b>B12-M02G</b>	<b>. Gels/hydrogels</b>	<b>2006</b>
<b>B12-M01B1</b>	<b>.. Dry powder inhaler</b> A dry powder inhaler (DPI) is similar to a metered dose inhaler, but is breath-activated, so the patient does not have to co-ordinate activation of the inhaler with inhalation of medicament.	<b>2005</b>	<b>B12-M03</b>	<b>Emulsion</b>	
<b>B12-M01B2</b>	<b>.. Multidose inhaler</b> A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage.	<b>2005</b>			

<b>B12-M04</b>	<b>Packaging material, apparatus</b> This code is used in conjunction with only the 11-C, 11-C01, 11-C07, 11-C08 and 11-C09 sub-sections of B11.	<b>B12-M10A6</b>	<b>.. Dual release devices</b> Typically soft gelatin capsules designed to provide an initial burst of drug followed by a steady release of the remainder. Consists of an inner aqueous matrix and outer lipophilic matrix.	<b>2005</b>
<b>B12-M05</b>	<b>Pharmaceutical composition general</b>	<b>B12-M10A7</b>	<b>.. Nanotechnology devices</b> Use of nanotechnology to deliver drugs to specific sites and control their release at that point. Includes quantum dots.	<b>2005</b>
<b>B12-M06</b>	<b>Preservative</b>	<b>B12-M10B</b>	<b>. Delayed release</b> This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines.	<b>1986</b>
<b>B12-M07</b>	<b>Solution</b>	<b>B12-M10C</b>	<b>. Rapid release</b>	<b>2002</b>
<b>B12-M08</b>	<b>Suppository</b> Also includes pessaries.	<b>B12-M10D</b>	<b>. Pulsed release</b> Active drug core coated with specific polymers and agents, where active is released in a "drug pulse" after a time lag.	<b>2005</b>
<b>B12-M09</b>	<b>Surfactant</b>	<b>B12-M10E</b>	<b>. Site-specific release</b> Drug bound to /or encased in a bio-polymer or other active substance in order to facilitate its transfer through the cell wall. This ensures the drug is delivered to the specific cells it needs to reach.	<b>2005</b>
<b>B12-M10</b>	<b>Controlled release general</b>	<b>B12-M10E1</b>	<b>.. Using lipid-based systems</b> A site-specific release form in which the drug is encased in a lipid-based system. These may include liposomes, solid lipid nanoparticles (SLNs), nanostructured lipid carriers (NLC) and hybrid nanoparticles.	<b>2005</b>
<b>B12-M10A</b>	<b>. Sustained release general</b> Active ingredient is gradually released over a period of time.	<b>B12-M10E2</b>	<b>.. Using antibodies</b> A site-specific release form in which the drug is bound to an antibody.	<b>2005</b>
<b>B12-M10A1</b>	<b>.. Osmotic pump</b> Similar to a reservoir device but with an osmotic agent added (typically the active agent in salt form) which causes pressure generation that forces out the active agent.	<b>B12-M10E3</b>	<b>.. Using nucleic acids</b> A site-specific release form in which the drug is bound to nucleic acid.	<b>2017</b>
<b>B12-M10A2</b>	<b>.. Reservoir devices</b> Active drug core encapsulated within a polymer film or coat through which it diffuses.			
<b>B12-M10A3</b>	<b>.. Multi-layer tablet</b> Variation on the matrix device in which the matrix is coated so as to modify the hydration/swelling of the core and so reduce the surface area available for drug delivery.			
<b>B12-M10A4</b>	<b>.. Other matrix devices</b> Drug is present as a dispersion within a polymer matrix, including clathrates. Also known as monolithic devices. Not used for the multi-layer tablet type (in which matrix is fully or partially coated) or for externally stimulated devices.			
<b>B12-M10A5</b>	<b>.. Pendant devices</b> Active is bound to polymer, from which it is released by hydrolytic enzymes in the body.			

<b>B12-M10E4</b>	.. <b>Using protein/peptide</b> A site-specific release form in which the drug is bound to a protein/peptide.	2019	<b>B12-M11M</b>	. <b>Chewable tablet</b>	2005
<b>B12-M10F</b>	. <b>Externally stimulated devices (e.g. electrically or ultrasonically)</b> Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other B12-M10 codes.	2005	<b>B12-M11N</b>	. <b>Microparticle</b>	2006
<b>B12-M11</b>	<b>Tablets, capsules, pills etc. general</b>		<b>B12-M11P</b>	. <b>Lyophilized form</b> Also includes freeze dried forms.	2006
<b>B12-M11A</b>	. <b>Anticaking</b>	1986	<b>B12-M11Q</b>	. <b>Nanoformulations</b> Includes nanoparticles.	2008
<b>B12-M11B</b>	. <b>Tablet (pressed)</b>	1986	<b>B12-M11Q1</b>	.. <b>Nanoparticle</b>	2020
<b>B12-M11C</b>	. <b>Capsule</b> Excluding microcapsule.	1986	<b>B12-M11Q2</b>	.. <b>Nanoemulsion</b>	2020
<b>B12-M11D</b>	. <b>Pellet, prill, granule, particle</b> Excluding B12-M11B.	1986	<b>B12-M11Q3</b>	.. <b>Nanosuspension</b>	2020
<b>B12-M11E</b>	. <b>Microcapsule</b> Excluding B12-M11F.	1986	<b>B12-M11R</b>	. <b>Coated form general and other</b> Tablets with two or more coating layers are coded under B12-M11K.	2009
<b>B12-M11F</b>	. <b>Liposomes/niosomes</b> Includes non-ionic surfactant-based liposomes when site specific release is not mentioned. Includes micelles.	1986	<b>B12-M11R1</b>	.. <b>Coated capsules</b>	2009
<b>B12-M11G</b>	. <b>Powder</b>	1986	<b>B12-M11R2</b>	.. <b>Coated microparticles</b>	2009
<b>B12-M11H</b>	. <b>Polymorphic form</b>	2010	<b>B12-M11R3</b>	.. <b>Coated tablets</b>	2012
<b>B12-M11H1</b>	.. <b>Special amorphous form</b> <i>Previous code(s): B12-M11H</i>	2006	<b>B12-M11S</b>	. <b>Foam formulation</b>	2011
<b>B12-M11H2</b>	.. <b>Special crystal form</b> <i>Previous code(s): B12-M11H</i>	2010	<b>B12-M11T</b>	. <b>Lozenge</b>	2014
<b>B12-M11J</b>	. <b>Effervescent formulation</b> Includes effervescent tablets and effervescent granules.	1994	<b>B12-M11U</b>	. <b>Dual dosage forms</b> E.g. tablet in capsule / pellet in capsule. To be searched alongside the B12 codes for each individual dosage component.	2016
<b>B12-M11K</b>	. <b>Tablet with two or more coating layers</b> <i>Previous code(s): B12-M11B</i>	1994	<b>B12-M11V</b>	. <b>Colloidal form</b> May be searched with other code(s) from B12-M.	2016
<b>B12-M11L</b>	. <b>Water-soluble formulation</b> Includes water soluble tablets and water soluble granules.	2002	<b>B12-M11Z</b>	. <b>Pro-formulation</b> Additional code to indicate the pro-form of a formulation e.g. pro-liposomes. Applied in conjunction with other B12-M11 codes.	2015
			<b>B12-M12</b>	<b>MODE OF ADMINISTRATION</b>	2005
			<b>B12-M12A</b>	. <b>Buccal, sublingual</b>	2005
			<b>B12-M12B</b>	. <b>External, topical</b>	2005

<b>B12-M12C</b>	. <b>Injection</b>	2005	<b>B12-M12Y</b>	. <b>Intracardiac</b> Administration directly into the heart.	2020
<b>B12-M12D</b>	. <b>Infusion</b>	2005	<b>B12-M12Z</b>	. <b>Specific treatment regime</b> Includes sequential administration of drugs, tapered dosing regimes.	2011
<b>B12-M12E</b>	. <b>Intraarterial</b>	2005	<b>B12-M14</b>	<b>Suspensions, dispersions</b>	2005
<b>B12-M12F</b>	. <b>Intravenous</b>	2005	<b>B12-M15</b>	<b>Film, sheet</b> Includes laminates.	2005
<b>B12-M12G</b>	. <b>Intraaural</b>	2005	<b>B12-M16</b>	<b>Prosthesis</b>	2005
<b>B12-M12H</b>	. <b>Intraocular</b> Includes intravitreal.	2005	<b>B12-M17</b>	<b>Surgical sponge, tampon</b>	2005
<b>B12-M12I</b>	. <b>Intratracheal</b>	2020	<b>B12-M18</b>	<b>Encapsulation</b>	2005
<b>B12-M12J</b>	. <b>Intramuscular</b>	2005	<b>B12-M19</b>	<b>Gene delivery methods</b>	2006
<b>B12-M12K</b>	. <b>Subcutaneous</b>	2005	<b>B12-M19A</b>	. <b>Gene delivery by viral methods</b>	2006
<b>B12-M12L</b>	. <b>Intrauterine, cervical</b>	2005	<b>B12-M19B</b>	. <b>Gene delivery by non-viral methods</b>	2006
<b>B12-M12M</b>	. <b>Intravaginal</b>	2005	<b>B12-M20</b>	<b>Taste masking agent</b>	2007
<b>B12-M12N</b>	. <b>Oral general</b>	2005	<b>B12-M21</b>	<b>Absorbent, accelerator</b>	2007
<b>B12-M12O</b>	. <b>Intraosseous</b> Administration directly into bone.	2020	<b>B12-M22</b>	<b>Formulations to prevent drugs from being abused</b>	2008
<b>B12-M12P</b>	. <b>Rectal general</b>	2005	<b>B12-N</b>	<b>PESTICIDES, FERTILISERS</b>	
<b>B12-M12Q</b>	. <b>Intranasal</b>	2006	<b>B12-N01</b>	<b>Pesticides general</b>	1965-1993
<b>B12-M12R</b>	. <b>Intrathecal</b>	2012	<b>B12-N02</b>	<b>Insecticides</b>	1965-1993
<b>B12-M12S</b>	. <b>Intraarticular</b>	2013	<b>B12-N03</b>	<b>Lures, baits etc.</b>	1965-1993
<b>B12-M12T</b>	. <b>Intramedular</b> Intramedular/intramedullary.	2013	<b>B12-N04</b>	<b>Molluscicide, slugicide</b>	1965-1993
<b>B12-M12U</b>	. <b>Intraperitoneal</b>	2013	<b>B12-N05</b>	<b>Rodenticide</b> Including birds etc.	1965-1993
<b>B12-M12V</b>	. <b>Epidural</b> Mode of administration is through the spinal cord.	2015	<b>B12-N06</b>	<b>Rodent repellent</b> Including birds etc.	1965-1993
<b>B12-M12W</b>	. <b>Intravesical</b> Injecting drugs directly to urinary bladder.	2017	<b>B12-N07</b>	<b>Soil fumigants, sterilants and seed protectants</b>	1965-1993
<b>B12-M12X</b>	. <b>Intratumoral</b>	2019			

<b>B12-N08</b>	<b>Soil improving (other than nutrients) synthetic growth media</b> 1965-1993
<b>B12-N09</b>	<b>Soil nutrients</b> Inorganic, including trace elements. 1965-1993
<b>B12-N10</b>	<b>Soil nutrients (others)</b> 1965-1993
<b>B12-P</b>	<b>PLANT GROWTH REGULANT TYPE</b>
<b>B12-P01</b>	<b>Plant growth regulants general</b> 1965-1993
<b>B12-P02</b>	<b>Defoliants, desiccants, chemical mowing</b> 1965-1993
<b>B12-P03</b>	<b>Fruit drop and set, thinning of fruit</b> 1965-1993
<b>B12-P04</b>	<b>Growth stimulants, phytohormones</b> 1965-1993
<b>B12-P05</b>	<b>Herbicide (total and general)</b> 1965-1993
<b>B12-P06</b>	<b>Herbicide (selective)</b> 1965-1993
<b>B12-P07</b>	<b>Moss, lichen controlling</b> 1965-1993
<b>B12-P08</b>	<b>Rooting cpds. (rhizogenes)</b> 1965-1993
<b>B12-P09</b>	<b>Sprouting inhibitors, seed germination inhibitors, growth inhibitors</b> 1965-1993
<b>B12-P10</b>	<b>Moisture conservation (mulches)</b> 1965-1993
<b>B12-Q01</b>	<b>TARGETED THERAPIES</b> Includes pharmacogenomics, precision medicine, personalised medicine and theranostics. 2006
<b>B12-Q01A</b>	<b>. Pharmacogenomics general</b> 2006
<b>B12-R</b>	<b>FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS</b> e.g. analgesic formulation specifically excluding aspirin. The component(s) excluded is/are not coded in sections B01-B10. 2009

## B14 PHARMACEUTICAL ACTIVITIES

When a patent refers to a drug's mode of action and lists a number of activities associated with it, only the mode of action is coded.

When a patent refers to a class of diseases and then specifies only one preferred condition, both the general and specific disease codes should be applied.

<b>B14-A</b>	<b>ANTIMICROBIALS</b> 1994
<b>B14-A01</b>	<b>Antibacterial general</b> 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A</b>	<b>. Gram-negative genera, general and other</b> 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A1</b>	<b>.. Bordetella</b> e.g. B. pertussis (causes whooping cough). 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A2</b>	<b>.. Borrelia</b> e.g. B. burgdorferi (causes Lyme disease). 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A3</b>	<b>.. Escherichia</b> e.g. E. coli. 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A4</b>	<b>.. Mycoplasma</b> e.g. M. pneumoniae, M. mycoides. 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A5</b>	<b>.. Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis. 1994 <i>Previous code(s): B12-A05</i>
<b>B14-A01A6</b>	<b>.. Pseudomonas</b> e.g. P. aeruginosa, P. mallei. 1994 <i>Previous code(s): B12-A01</i>
<b>B14-A01A7</b>	<b>.. Rickettsia</b> e.g. R. prowazekii (causes typhus). 1994 <i>Previous code(s): B12-A01</i>



<b>B14-A01A8</b>	.. <b>Salmonella</b> e.g. S. typhi (causes typhoid fever).  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02A2</b>	.. <b>Arbovirus</b> This code is used for treatment of e.g. yellow fever or viral encephalitis.  <i>Previous code(s): B12-A06</i>	<b>1994</b>
<b>B14-A01A9</b>	.. <b>Vibrio</b> e.g. V. cholerae, V. parahemolyticus.  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02A3</b>	.. <b>Herpesvirus</b> e.g. cytomegalovirus, Epstein-Barr, chicken pox.  <i>Previous code(s): B12-A06</i>	<b>1994</b>
<b>B14-A01B</b>	. <b>Gram-positive genera, general and other</b>  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02A4</b>	.. <b>Poxvirus</b> Includes monkeypox.  <i>Previous code(s): B12-A06</i>	<b>1994</b>
<b>B14-A01B1</b>	.. <b>Mycobacteria</b> e.g. M.bovis, M. phlei.  <i>Previous code(s): B12-A01, B12-A03, B12-A04,</i>	<b>1994</b>	<b>B14-A02A5</b>	.. <b>Hepatitis B virus</b>  <i>Previous code(s): B12-A06, B12-G02</i>	<b>1994</b>
<b>B14-A01B1A</b>	... <b>M. tuberculosis</b>	<b>2005</b>	<b>B14-A02A6</b>	.. <b>Papovavirus</b> e.g. papilloma.  <i>Previous code(s): B12-A06</i>	<b>1994</b>
<b>B14-A01B1B</b>	... <b>M. leprae</b>	<b>2005</b>	<b>B14-A02A7</b>	.. <b>Hepatitis C treatment</b> Now coded as B14-A02B9.  <b>2002-2014</b>	
<b>B14-A01B2</b>	.. <b>Streptococcus</b> e.g. S. pyogenes, S. fecalis, S. pneumoniae (pneumococci), S. lactis.  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02A8</b>	.. <b>Hepatitis D treatment</b>	<b>2002</b>
<b>B14-A01B3</b>	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies.  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02A9</b>	.. <b>Parvovirus</b> Includes treatment of "slapped cheek" syndrome.	<b>2005</b>
<b>B14-A01B4</b>	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermidis.  <i>Previous code(s): B12-A01</i>	<b>1994</b>	<b>B14-A02B</b>	. <b>RNA Viruses general and other</b> Includes Filoviridae e.g. Ebola virus and Marburg virus.  <i>Previous code(s): B12-A06</i>	<b>1994</b>
<b>B14-A01B5</b>	.. <b>Bacillus</b> e.g. B. anthracis, B. cereus  <i>Previous code(s): B14-A01B</i>	<b>2006</b>	<b>B14-A02B0</b>	.. <b>Calcivirus</b> e.g. norovirus, lagovirus, sapovirus, feline calcivirus	<b>2014</b>
<b>B14-A01X</b>	. <b>Combating resistant bacteria</b> This code is applied in conjunction with one or more codes from section B14-A01	<b>2013</b>	<b>B14-A02B1</b>	.. <b>Retrovirus</b> Including leuco- and oncoviruses, T-cell leukemia virus, HIV, Rous sarcoma. Non-antiviral AIDS treatment is coded B14-G01B.  <i>Previous code(s): B12-A06, B12-G05, B12-G07</i>	<b>1994</b>
<b>B14-A02</b>	<b>Antiviral general</b>  <i>Previous code(s): B12-A06</i>	<b>1994</b>	<b>B14-A02B2</b>	.. <b>(Para/ortho)Myxovirus</b> Including Influenza and mumps. In non-antiviral treatments other codes may be applied, e.g. antipyretic drug for treating 'flu is coded B14-C04 only.	<b>1994</b>
<b>B14-A02A</b>	. <b>DNA Viruses general and other</b>  <i>Previous code(s): B12-A06</i>	<b>1994</b>		<i>Previous code(s): B12-A06</i>	
<b>B14-A02A1</b>	.. <b>Adenovirus</b>  <i>Previous code(s): B12-A06</i>	<b>1994</b>			

<b>B14-A02B3</b>	.. <b>Picornavirus</b> Including entero-, rhino-, polio-, cold, hepatitis A. For hepatitis B see B14-A02A5. When treatment against cold is directed against symptoms, other codes may be applied, e.g. antiinflammatory drug for treating common cold is coded B14-C03 only. <b>1994</b> <i>Previous code(s): B12-A06, B12-G02</i>	<b>B14-A03D</b>	. <b>Trichomonicide, histomonicide</b> <b>1994</b> <i>Previous code(s): B12-B04</i>
<b>B14-A02B4</b>	.. <b>Rhabdovirus</b> Including rabies. <b>1994</b> <i>Previous code(s): B12-A06</i>	<b>B14-A03E</b>	. <b>Trypanocide</b> i.e. sleeping sickness. <b>1994</b> <i>Previous code(s): B12-B07</i>
<b>B14-A02B5</b>	.. <b>Coronavirus</b> Including SARS, also coded as B14-K01D. <b>1994</b> <i>Previous code(s): B12-A06</i>	<b>B14-A03F</b>	. <b>Other antiprotozoal</b> <b>2005</b>
<b>B14-A02B6</b>	.. <b>Togavirus</b> Including rubella. <b>1994</b> <i>Previous code(s): B12-A06</i>	<b>B14-A03X</b>	. <b>Combating resistant protozoa</b> This code is applied in conjunction with one or more codes from section B14-A03. <b>2014</b>
<b>B14-A02B7</b>	.. <b>Reovirus</b> e.g. rotavirus. <b>1994</b> <i>Previous code(s): B12-A06</i>	<b>B14-A04</b>	<b>Antifungal general and other</b> <b>1994</b>
<b>B14-A02B9</b>	.. <b>Flavivirus</b> Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis C and G virus and West Nile virus. Prior to 201501, Hepatitis C virus was coded B14-A02A7. <b>2005</b>	<b>B14-A04A</b>	. <b>Aspergillus</b> <b>1994</b> <i>Previous code(s): B12-A02C</i>
<b>B14-A02X</b>	. <b>Combating resistant viruses</b> This code is applied in conjunction with one or more codes from section B14-A02 <b>2013</b>	<b>B14-A04B</b>	. <b>Candida</b> This organism commonly causes thrush. <b>1994</b> <i>Previous code(s): B12-A02C</i>
<b>B14-A03</b>	<b>Antiprotozoal general and other</b> <b>1994</b> <i>Previous code(s): B12-B04</i>	<b>B14-A04C</b>	. <b>Trichophyton, Microsporium</b> This code covers treatment of e.g. ringworm, tinea, athlete's foot. <b>1994</b> <i>Previous code(s): B12-A02C</i>
<b>B14-A03A</b>	. <b>Amoebicide</b> <b>1994</b> <i>Previous code(s): B12-B01</i>	<b>B14-A04X</b>	. <b>Combating resistant fungi</b> This code is applied in conjunction with one or more codes from section B14-A04. <b>2013</b>
<b>B14-A03B</b>	. <b>Antimalarial</b> Plasmodium is the malarial parasite. <b>1994</b> <i>Previous code(s): B12-B03</i>	<b>B14-A05</b>	<b>Antialgal</b> <b>1994</b> <i>Previous code(s): B12-A02A</i>
<b>B14-A03C</b>	. <b>Cocciostat</b> Includes Eimeria and Isospora. <b>1994</b> <i>Previous code(s): B12-B05</i>	<b>B14-B</b>	<b>PESTICIDES AND OTHER ANTIPARASITICS</b> <b>1994</b>
		<b>B14-B01</b>	<b>Pesticide general</b> This code is applied only when type is unspecified or general. <b>1994</b> <i>Previous code(s): B12-N01</i>
		<b>B14-B02</b>	<b>Antiparasitic general</b> This code is applied only when type is unspecified or general. <b>1994</b> <i>Previous code(s): B12-B04</i>
		<b>B14-B02X</b>	. <b>Combating resistant parasites</b> <b>2020</b>
		<b>B14-B03</b>	<b>Vermicide, antihelminthic general and other</b> <b>1994</b> <i>Previous code(s): B12-B02</i>

<b>B14-B03A</b>	. <b>Nematocide</b> Including threadworm. <i>Previous code(s): B12-B02</i>	<b>1994</b>	<b>B14-B04B7</b>	.. <b>Lepidoptera</b> Covers butterfly and moth killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>
<b>B14-B03B</b>	. <b>Schistosomicide</b> <i>Previous code(s): B12-B06</i>	<b>1994</b>	<b>B14-B04B8</b>	.. <b>Orthoptera</b> Includes locust killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>
<b>B14-B03C</b>	. <b>Tapeworm</b> <i>Previous code(s): B12-B02</i>	<b>1994</b>	<b>B14-B04B9</b>	.. <b>Siphonaptera</b> Includes flea killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>
<b>B14-B03D</b>	. <b>Distomicide, other fluke</b>	<b>2005</b>	<b>B14-B04X</b>	. <b>Combating resistant arthropods</b> This code is applied in conjunction with one or more codes from section B14-B04.	<b>2013</b>
<b>B14-B03X</b>	. <b>Combating resistant worms and helminths general</b> This code is applied in conjunction with one or more codes from section B14-B03.	<b>2018</b>	<b>B14-B05</b>	<b>Arthropod repellent</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites. <i>Previous code(s): B12-L06</i>	<b>1994</b>
<b>B14-B04</b>	<b>Arthropodicide general and other</b> Includes crustacicide, arachnicide and millipede killing. <i>Previous code(s): B12-N01</i>	<b>1994</b>	<b>B14-B06</b>	<b>Arthropod attractant</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites. Including pheromones used as attractants. <i>Previous code(s): B12-N03</i>	<b>1994</b>
<b>B14-B04A</b>	. <b>Acaricide</b> Includes tickicides and miticides. <i>Previous code(s): B12-B04</i>	<b>1994</b>	<b>B14-B07</b>	<b>Arthropod sterilant</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites. <i>Previous code(s): B12-K03</i>	<b>1994</b>
<b>B14-B04B</b>	. <b>Insecticide general and other</b> <i>Previous code(s): B12-N02</i>	<b>1994</b>	<b>B14-B08</b>	<b>Antilichen</b> <i>Previous code(s): B12-A02B</i>	<b>1994</b>
<b>B14-B04B1</b>	.. <b>Coleoptera</b> Covers beetle killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>	<b>B14-B09</b>	<b>Rodenticide</b> <i>Previous code(s): B12-N05</i>	<b>1994</b>
<b>B14-B04B2</b>	.. <b>Dictyoptera</b> Includes cockroach and termite killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>	<b>B14-B10</b>	<b>Avicide</b> <i>Previous code(s): B12-N05</i>	<b>1994</b>
<b>B14-B04B3</b>	.. <b>Diptera</b> Includes house fly, mosquito and gnat killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>	<b>B14-B11</b>	<b>Piscicide</b> <i>Previous code(s): B12-N05</i>	<b>1994</b>
<b>B14-B04B4</b>	.. <b>Ephemeroptera</b> Includes mayfly killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>	<b>B14-B12</b>	<b>Molluscicide</b> Includes gastropodicides, slug, snail, bivalve and octopus killing. <i>Previous code(s): B12-N04</i>	<b>1994</b>
<b>B14-B04B5</b>	.. <b>Hemiptera</b> Includes aphid killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>			
<b>B14-B04B6</b>	.. <b>Hymenoptera</b> Includes bee, wasp and ant killing. <i>Previous code(s): B12-N02</i>	<b>1994</b>			

<b>B14-B13</b>	<b>Animal repellent (other than insect)</b> <i>Previous code(s): B12-N06</i>	<b>1994</b>	<b>B14-C09B</b>	<b>. Rheumatoid-arthritis</b> <i>Previous code(s): B12-D03</i>	<b>1994</b>
<b>B14-B14</b>	<b>Lures, baits (other than insect pheromones)</b> <i>Previous code(s): B12-N03</i>	<b>1994</b>	<b>B14-D</b>	<b>HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS</b> *These codes also used for agonist/mimetic or receptor agonist/mimetic activities. **These codes also used for antagonist/inhibitor or receptor antagonist/inhibitor activities, e.g. aldosterone receptor antagonist is coded B14-D02A1. See B14-L for other (ant)agonist activities.	<b>1994</b>
<b>B14-C</b>	<b>ANESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN</b>	<b>1994</b>	<b>B14-D01</b>	<b>Hormonal general and other*</b> <i>Previous code(s): B12-G04</i>	<b>1994</b>
<b>B14-C01</b>	<b>Analgesic</b> This code is used when the action of the analgesic is very wide or unspecified. A more specific code is applied where possible, e.g. analgesic for treating dysmenorrhea only is coded under B14-N14 only. <i>Previous code(s): B12-D01</i>	<b>1994</b>	<b>B14-D01A</b>	<b>. Androgenic*</b> <i>Previous code(s): B12-G04B</i>	<b>1994</b>
<b>B14-C02</b>	<b>Antigout</b> <i>Previous code(s): B12-D07, B12-G03</i>	<b>1994</b>	<b>B14-D01B</b>	<b>. Estrogenic*</b> <i>Previous code(s): B12-G04C</i>	<b>1994</b>
<b>B14-C03</b>	<b>Antiinflammatory general</b> This code is used for treatment of general edema or inflammation. Specific inflammation treatments are coded elsewhere when possible e.g. Bronchitis is coded B14-K01 only, colitis as B14-E10C only etc.. <i>Previous code(s): B12-D07</i>	<b>1994</b>	<b>B14-D01C</b>	<b>. Progestational*</b> <i>Previous code(s): B12-G04D</i>	<b>1994</b>
<b>B14-C04</b>	<b>Antipyretic</b> <i>Previous code(s): B12-D08</i>	<b>1994</b>	<b>B14-D01D</b>	<b>. Other steroid*</b> <i>Previous code(s): B12-G04</i>	<b>1994</b>
<b>B14-C05</b>	<b>Antihypothermia</b> <i>Previous code(s): B12-D08</i>	<b>1994</b>	<b>B14-D01E</b>	<b>. Peptide hormone activity*</b> <i>Previous code(s): B12-G04</i>	<b>1994</b>
<b>B14-C06</b>	<b>Antirheumatic</b> <i>Previous code(s): B12-D09</i>	<b>1994</b>	<b>B14-D01E1</b>	<b>.. Melanocortin agonist</b> Adrenocorticotrophic hormone agonist.	<b>2005</b>
<b>B14-C07</b>	<b>General anesthetic</b> <i>Previous code(s): B12-C01</i>	<b>1994</b>	<b>B14-D01E2</b>	<b>.. Melanin concentrating hormone agonist</b>	<b>2005</b>
<b>B14-C08</b>	<b>Local anesthetic</b> <i>Previous code(s): B12-C02</i>	<b>1994</b>	<b>B14-D02</b>	<b>Antihormonal general and other**</b> <i>Previous code(s): B12-G01A</i>	<b>1994</b>
<b>B14-C09</b>	<b>Antiarthritic general and other</b> <i>Previous code(s): B12-D03</i>	<b>1994</b>	<b>B14-D02A</b>	<b>. Antisteroid general and other**</b> <i>Previous code(s): B12-G01A</i>	<b>1994</b>
<b>B14-C09A</b>	<b>. Osteoarthritis</b> <i>Previous code(s): B12-D03</i>	<b>1994</b>	<b>B14-D02A1</b>	<b>.. Antialdosterone**</b> <i>Previous code(s): B12-G01A</i>	<b>1994</b>
			<b>B14-D02A2</b>	<b>.. Anticholesterol**</b> <i>Previous code(s): B12-H03</i>	<b>1994</b>

<b>B14-D02A3</b>	.. <b>Antiestrogenic</b> This code also covers estrogenic antagonist/inhibitor activity and estrogen receptor antagonist/inhibitor activities. 2005	<b>B14-D06</b>	<b>Antitransferases general and other</b> Includes HIV integrase inhibitor. 1994 <i>Previous code(s): B12-G01B2</i>
<b>B14-D02A4</b>	.. <b>Antiprogestational</b> This code also covers progestational antagonist/inhibitor activity and progesterone receptor antagonist/inhibitor activities. 2005	<b>B14-D06A</b>	. <b>AntiDNA/RNA polymerase</b> 1994 <i>Previous code(s): B12-G01B2</i>
<b>B14-D02A5</b>	.. <b>Antiandrogenic</b> This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities. 2005	<b>B14-D06B</b>	. <b>Antireverse transcriptase</b> 1994 <i>Previous code(s): B12-G01B2</i>
<b>B14-D02A6</b>	.. <b>Other antisteroid hormone</b> This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities. 2005	<b>B14-D06C</b>	. <b>Antikinase</b> 2005
<b>B14-D02B</b>	. <b>Antipeptide hormone**</b> 1994 <i>Previous code(s): B12-G01A</i>	<b>B14-D07</b>	<b>Antihydrolases general and other</b> 1994 <i>Previous code(s): B12-G01B3</i>
<b>B14-D02B1</b>	.. <b>Melanocortin antagonist</b> 2005	<b>B14-D07A</b>	. <b>Antiesterases</b> Including lipase, nuclease, restriction enzyme, sulfatase, phosphatase inhibitors. 1994 <i>Previous code(s): B12-G01B3</i>
<b>B14-D02B2</b>	.. <b>Melanin concentrating hormone antagonist</b> 2005	<b>B14-D07A1</b>	.. <b>Antiphosphodiesterases</b> 2005
<b>B14-D03</b>	<b>Enzyme inhibitors general and other</b> 1994 <i>Previous code(s): B12-G01B</i>	<b>B14-D07B</b>	. <b>Antiglycosidases</b> Including amylase, cellulase, lactase inhibitors. 1994 <i>Previous code(s): B12-G01B3</i>
<b>B14-D04</b>	<b>Coenzyme inhibitors</b> 1994 <i>Previous code(s): B12-G01B</i>	<b>B14-D07C</b>	. <b>Antiproteases, antipeptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, renin, collagenase, elastase inhibitors. Renin inhibitor used as hypotensive is coded B14-F02B1 only. 1994 <i>Previous code(s): B12-G01B3</i>
<b>B14-D05</b>	<b>Antioxidoreductases general and other</b> 1994 <i>Previous code(s): B12-G01B1</i>	<b>B14-D07C1</b>	.. <b>Antimetalloproteases</b> 2005
<b>B14-D05A</b>	. <b>Antioxidases</b> 1994 <i>Previous code(s): B12-G01B1</i>	<b>B14-D08</b>	<b>Antilyases</b> Including adenylyl cyclase, (de)carboxylase, aldolase, dehydratase inhibitors. 1994 <i>Previous code(s): B12-G01B4</i>
<b>B14-D05B</b>	. <b>Antiperoxidases</b> 1994 <i>Previous code(s): B12-G01B1</i>	<b>B14-D09</b>	<b>Antisomerases</b> Including racemase, tautomerase, epimerase, mutase inhibitors. 1994 <i>Previous code(s): B12-G01B5</i>
<b>B14-D05C</b>	. <b>Antioxygenases</b> 1994 <i>Previous code(s): B12-G01B1</i>	<b>B14-D10</b>	<b>Antiligases</b> Including synthetase, some carboxylase inhibitors. 1994 <i>Previous code(s): B12-G01B6</i>
<b>B14-D05D</b>	. <b>Antidehydrogenases, antireductases</b> 1994 <i>Previous code(s): B12-G01B1</i>		

<b>B14-E</b>	<b>DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM</b>	1994	<b>B14-E11</b>	<b>Anabolic, anorexia treatment general</b>	1994
<b>B14-E01</b>	<b>Antacid</b>	1994		<i>Previous code(s): B12-J01</i>	
	<i>Previous code(s): B12-J03</i>		<b>B14-E11A</b>	<b>. Anorexia</b>	2005
<b>B14-E02</b>	<b>Antidiarrheal</b>	1994	<b>B14-E11B</b>	<b>. Cachexia</b>	2005
	<i>Previous code(s): B12-J04</i>			Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	
<b>B14-E03</b>	<b>Antiflatulent</b>	1994			
	<i>Previous code(s): B12-J03</i>		<b>B14-E11C</b>	<b>. Malnutrition</b>	2005
<b>B14-E04</b>	<b>Antihemorrhoidal</b>	1994	<b>B14-E11D</b>	<b>. Bulimia</b>	2005
	<i>Previous code(s): B12-J04</i>		<b>B14-E12</b>	<b>Anorectic, obesity treatment (appetite depressant)</b>	1994
<b>B14-E05</b>	<b>Antiemetic</b>	1994		<i>Previous code(s): B12-J02</i>	
	<i>Previous code(s): B12-D05</i>		<b>B14-F</b>	<b>DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM</b>	
<b>B14-E06</b>	<b>Emetic</b>	1994		*These codes are also used for agonist/mimetic or receptor agonist/mimetic activities. **These codes are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities. See section B14-L for other agonist/antagonist activities.	1994
	<i>Previous code(s): B12-J06</i>		<b>B14-F01</b>	<b>Cardioactive general and other</b>	1994
<b>B14-E07</b>	<b>Gastric secretion inhibitor</b>	1994		<i>Previous code(s): B12-F01</i>	
	<i>Previous code(s): B12-J02</i>		<b>B14-F01A</b>	<b>. Antiarrhythmic</b>	1994
<b>B14-E08</b>	<b>Ulcer treatment (peptic, gastric, duodenal)</b>	1994		<i>Previous code(s): B12-F01A</i>	
	Skin ulcers are coded B14-N17H.		<b>B14-F01B</b>	<b>. Cardiac stimulant</b>	1994
	<i>Previous code(s): B12-E08</i>			Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment.	
<b>B14-E09</b>	<b>Laxative</b>	1994		<i>Previous code(s): B12-F01B</i>	
	<i>Previous code(s): B12-J07</i>		<b>B14-F01C</b>	<b>. Cardiac depressant</b>	1994
<b>B14-E10</b>	<b>Gastrointestinal dysfunction general and other</b>	1994		<i>Previous code(s): B12-F01C</i>	
	<i>Previous code(s): B12-J01</i>		<b>B14-F01D</b>	<b>. Antianginal</b>	1994
<b>B14-E10A</b>	<b>. Esophageal</b>	1994		<i>Previous code(s): B12-F02</i>	
	<i>Previous code(s): B12-J01</i>		<b>B14-F01E</b>	<b>. Coronary dilator, coronary ischemia treatment</b>	1994
<b>B14-E10B</b>	<b>. Gastric</b>	1994		<i>Previous code(s): B12-F02</i>	
	Includes gastritis.				
	<i>Previous code(s): B12-J01</i>				
<b>B14-E10C</b>	<b>. Bowel</b>	1994			
	Including irritable and inflammatory bowel (e.g. IBS).				
	<i>Previous code(s): B12-J01</i>				
<b>B14-E10C1</b>	<b>.. Inflammatory bowel conditions</b>	2005			
<b>B14-E10D</b>	<b>. Dysentery</b>	1994			
	<i>Previous code(s): B12-B01, B12-A01, B12-A06, B12-J04, B12-J05</i>				
<b>B14-E10E</b>	<b>. Gastrointestinal flora</b>	2008			

<b>B14-F01F</b>	. <b>Ganglion blocker</b>	1994	<b>B14-F03</b>	<b>Antianemic</b>	1994
	<i>Previous code(s): B12-F03</i>			This code covers treatment of blood cell ratio imbalance.	
<b>B14-F01G</b>	. <b>Restenosis treatment</b>	2002		<i>Previous code(s): B12-H01</i>	
<b>B14-F02</b>	<b>Circulatory active general and other</b>	1994	<b>B14-F04</b>	<b>Anticoagulant, antiaggregants, thrombolytic</b>	1994
	<i>Previous code(s): B12-E01</i>			<i>Previous code(s): B12-H02</i>	
<b>B14-F02A</b>	. <b>Hypertensive (calcium agonists)*</b>	1994	<b>B14-F05</b>	<b>Reperfusion treatment</b>	1994
	<i>Previous code(s): B12-F04</i>		<b>B14-F06</b>	<b>Antilipemic</b>	1994
<b>B14-F02B</b>	. <b>Hypotensive general and other</b>	1994		<i>Previous code(s): B12-H03</i>	
	<i>Previous code(s): B12-F05</i>		<b>B14-F06A</b>	. <b>Dyslipidemia</b>	2005
<b>B14-F02B1</b>	.. <b>Angiotensin converting enzyme inhibitor, angiotensin antagonists**</b>	1994	<b>B14-F06B</b>	. <b>Hypertriglyceremia</b>	2011
	This code covers renin inhibitors when used as hypotensives.		<b>B14-F07</b>	<b>Antiartherosclerotic</b>	1994
	<i>Previous code(s): B12-F05A</i>			Includes atherosclerosis.	
<b>B14-F02B2</b>	.. <b>Calcium antagonists/entry blockers**</b>	1994		<i>Previous code(s): B12-H03</i>	
	<i>Previous code(s): B12-F05B,B12-G01</i>		<b>B14-F08</b>	<b>Coagulant</b>	1994
<b>B14-F02C</b>	. <b>Vasoconstrictor</b>	1994		<i>Previous code(s): B12-H04</i>	
	<i>Previous code(s): B12-F06</i>		<b>B14-F09</b>	<b>Hypoglycemic</b>	1994
<b>B14-F02D</b>	. <b>Vasodilator, general ischemia treatment</b>	1994		Treatment of diabetic symptoms is coded B14-S04.	
	<i>Previous code(s): B12-F07</i>			<i>Previous code(s): B12-H05</i>	
<b>B14-F02D1</b>	.. <b>Cerebral ischemia treatment</b>	1994	<b>B14-F10</b>	<b>Hyperglycemic</b>	1994
	<i>Previous code(s): B12-F07,B12-C10</i>			<i>Previous code(s): B12-H05</i>	
<b>B14-F02D2</b>	.. <b>Pulmonary ischemia treatment</b>	1994	<b>B14-F11</b>	<b>Plasma and blood substitutes</b>	1994
	<i>Previous code(s): B12-K06</i>			<i>Previous code(s): B12-H06</i>	
<b>B14-F02E</b>	. <b>Lymphatic disease treatment</b>	1994	<b>B14-G</b>	<b>DRUGS ACTING ON THE IMMUNE SYSTEM</b>	1994
	<i>Previous code(s): B12-G03</i>				
<b>B14-F02F</b>	. <b>Peripheral vascular disorder/angiogenic general</b>	2002	<b>B14-G01</b>	<b>Immunostimulant general and other</b>	1994
				<i>Previous code(s): B12-A01,B12-A06</i>	
<b>B14-F02F1</b>	.. <b>Angiogenic</b>	2002	<b>B14-G01A</b>	. <b>Interferon inducing</b>	1994
				This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	
<b>B14-F02F2</b>	.. <b>Anti-angiogenic</b>	2002		<i>Previous code(s): B12-A06</i>	
			<b>B14-G01B</b>	. <b>AIDS treatment</b>	1994
<b>B14-F02F3</b>	.. <b>Peripheral vascular disorder</b>	2002		A drug which combats HIV is coded B14-A02B1.	
				<i>Previous code(s): B12-A06</i>	

<b>B14-G02</b>	<b>Immunosuppressant general and other</b>	1994	<b>B14-H01E2</b>	.. Esophageal cancers	2005
	<i>Previous code(s): B12-D02B</i>		<b>B14-H01E3</b>	.. Gall bladder cancers	2005
<b>B14-G02A</b>	. <b>Antiallergic</b>	1994	<b>B14-H01E4</b>	.. Intestinal cancers	2005
	<i>Previous code(s): B12-D02</i>		<b>B14-H01E5</b>	.. Hepatic cancers	2005
<b>B14-G02B</b>	. <b>Antianaphylactic</b>	1994	<b>B14-H01E6</b>	.. Pancreatic cancers	2005
	<i>Previous code(s): B12-D02D</i>		<b>B14-H01E7</b>	.. Rectal cancers	2005
<b>B14-G02C</b>	. <b>Graft/transplant rejection treatment</b>	1994	<b>B14-H01E8</b>	.. Stomach cancers	2005
	<i>Previous code(s): B12-D02B</i>		<b>B14-H01F</b>	. <b>Genitourinary cancers</b>	2005
<b>B14-G02D</b>	. <b>Autoimmune disease treatment</b>	1994	<b>B14-H01F1</b>	.. Cervical/uterine cancers	2005
	<i>Previous code(s): B12-D02A</i>		<b>B14-H01F2</b>	.. Kidney cancers	2005
<b>B14-G03</b>	<b>Immunomodulatory</b>	1994	<b>B14-H01F3</b>	.. Ovarian cancers	2005
	<i>Previous code(s): B12-A01,B12-A06,B12-D02B</i>		<b>B14-H01F4</b>	.. Prostate cancers	2005
<b>B14-H</b>	<b>CANCER RELATED DRUGS</b>		<b>B14-H01F5</b>	.. Testicular cancers	2005
	Codes from sections B14-H01D - H01Z are now structured within the hierarchy B14-H01D to B14-H01L below. All document records containing codes introduced in 2005 will be changed to reflect the updated 2006 hierarchy and codes B14-H01M to B14-H01Z will no longer be searchable.		<b>B14-H01F6</b>	.. Bladder cancers	2005
		1994	<b>B14-H01G</b>	. <b>Immunological cancers</b>	2005
<b>B14-H01</b>	<b>Anticancer general and other</b>	1994	<b>B14-H01G1</b>	.. Hodgkin's lymphoma	2005
	<i>Previous code(s): B12-G07</i>		<b>B14-H01G2</b>	.. Non-Hodgkin's lymphoma	2005
<b>B14-H01A</b>	. <b>Leukemia treatment</b>	1994	<b>B14-H01H</b>	. <b>Musculoskeletal cancers</b>	2005
	<i>Previous code(s): B12-G05</i>		<b>B14-H01H1</b>	.. Osteocancers	2005
<b>B14-H01B</b>	. <b>Antiproliferative, inhibitor of cell division, cytostatic</b>	1994	<b>B14-H01H2</b>	.. Sarcoma	2005
	<i>Previous code(s): B12-D07, B12-E08,B12-G07</i>		<b>B14-H01J</b>	. <b>Neurological cancers</b>	2005
<b>B14-H01C</b>	. <b>Dermatological cancers</b>	2005	<b>B14-H01J1</b>	.. Brain tumours	2005
<b>B14-H01D</b>	. <b>Endocrine cancers</b>	2005	<b>B14-H01K</b>	. <b>Oral and respiratory cancers</b>	2005
<b>B14-H01D1</b>	.. <b>Breast cancers</b>	2005	<b>B14-H01K1</b>	.. <b>Buccal cavity and pharynx cancers</b>	2005
<b>B14-H01D2</b>	.. <b>Thyroid cancers</b>	2005	<b>B14-H01K2</b>	.. <b>Larynx cancers</b>	2005
<b>B14-H01E</b>	. <b>Gastrointestinal cancers</b>	2005	<b>B14-H01K3</b>	.. <b>Lung cancers</b>	2005
<b>B14-H01E1</b>	.. <b>Colon cancers</b>	2005			



<b>B14-H01L</b>	. <b>Other cancers</b>	2005	<b>B14-J01A</b>	. <b>Stimulants general and other</b>	1994
<b>B14-H01L1</b>	.. <b>Multiple myelomas</b>	2005		<i>Previous code(s): B12-C06</i>	
<b>B14-H02</b>	<b>Mutagen, carcinogen</b>	1994	<b>B14-J01A1</b>	.. <b>Antidepressant</b>	1994
	<i>Previous code(s): B12-G07</i>			<i>Previous code(s): B12-C06</i>	
<b>B14-H03</b>	<b>Apoptotic</b>	2002	<b>B14-J01A2</b>	.. <b>Analeptic</b>	1994
<b>B14-H04</b>	<b>Anti-apoptotic</b>	2002		<i>Previous code(s): B12-C03</i>	
<b>B14-H05</b>	<b>Antiproliferative (non-cancerous)</b> e.g. hyperplasia.	2006	<b>B14-J01A3</b>	.. <b>Antiparkinsonian</b>	1994
<b>B14-H06</b>	<b>Tumor sensitizers</b> Search when sensitizer type is not specified.	2008		<i>Previous code(s): B12-C04</i>	
<b>B14-H06A</b>	. <b>Radiosensitizers</b>	2016	<b>B14-J01A4</b>	.. <b>Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, anti-amnesia, nootropics</b>	1994
<b>B14-H06B</b>	. <b>Photosensitizers</b>	2016		<i>Previous code(s): B12-C10, B12-G04A</i>	
<b>B14-H06C</b>	. <b>Chemosensitizers</b>	2021	<b>B14-J01B</b>	. <b>Depressants general and other</b>	1994
<b>B14-H06D</b>	. <b>Sonosensitizers</b>	2023		<i>Previous code(s): B12-C05</i>	
<b>B14-H07</b>	<b>Hypoplasia and aplasia</b> To be searched in the general case where the affected organ(s) are not specified.	2016	<b>B14-J01B1</b>	.. <b>Hypnotic</b>	1994
<b>B14-H00X</b>	<b>Treatment resistant cancers</b> To be applied in conjunction with other code(s) from B14-H where the cancer(s) to be treated are stated to be drug-, radiotherapy- and/or chemotherapy resistant.	2014		<i>Previous code(s): B12-C07</i>	
<b>B14-J</b>	<b>DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS</b> *These codes are also used for agonist/mimetic or receptor agonist/mimetic activities, e.g. dopamine receptor agonist is coded dopaminergic B14-J02C2. **These codes are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities.	1994	<b>B14-J01B2</b>	.. <b>Sedative</b>	1994
<b>B14-J01</b>	<b>CNS active general and other</b> Covers terms such as cerebroprotective and neuroprotective.	1994		<i>Previous code(s): B12-C08</i>	
	<i>Previous code(s): B12-C10</i>		<b>B14-J01B3</b>	.. <b>Antipsychotic, neuroleptic, antischizophrenic</b>	1994
				<i>Previous code(s): B12-C10, B12-E02</i>	
			<b>B14-J01B4</b>	.. <b>Tranquiliser, anxiolytic</b>	1994
				<i>Previous code(s): B12-C10</i>	
			<b>B14-J02</b>	<b>Autonomic NS active general and other</b>	1994
				<i>Previous code(s): B12-E01</i>	
			<b>B14-J02A</b>	. <b>Parasympathetic stimulants, mimetics general and other*</b>	1994
				<i>Previous code(s): B12-E05</i>	
			<b>B14-J02A1</b>	.. <b>Cholinergic (acetyl choline potentiators)*</b>	1994
				<i>Previous code(s): B12-E05</i>	
			<b>B14-J02A2</b>	.. <b>Muscarinic*</b>	1994
				<i>Previous code(s): B12-E05</i>	
			<b>B14-J02B</b>	. <b>Parasympathetic depressant, parasympatholytic general and other**</b>	1994
				<i>Previous code(s): B12-E04</i>	

<b>B14-J02B1</b>	<b>.. Anticholinergic**</b>	1994	<b>B14-J05E</b>	<b>. Duchenne's muscular dystrophy treatment</b>	2002
	<i>Previous code(s): B12-E04</i>				
<b>B14-J02B2</b>	<b>.. Antimuscarinic**</b>	1994	<b>B14-J06</b>	<b>Convulsant</b>	1994
	<i>Previous code(s): B12-E04</i>			<i>Previous code(s): B12-D10</i>	
<b>B14-J02C</b>	<b>. Sympathetic stimulants general and other*</b>	1994	<b>B14-J07</b>	<b>Anticonvulsant</b>	1994
	<i>Previous code(s): B12-E07</i>			<i>Previous code(s): B12-D04</i>	
<b>B14-J02C1</b>	<b>.. Adrenergic, adrenaline potentiator (alpha and beta)*</b>	1994	<b>B14-K</b>	<b>DRUGS ACTING ON THE RESPIRATORY SYSTEM</b>	1994
	<i>Previous code(s): B12-E07</i>				
<b>B14-J02C2</b>	<b>.. Dopaminergic*</b>	1994	<b>B14-K01</b>	<b>Respiratory active general and other</b>	1994
	<i>Previous code(s): B12-E07</i>			Including anoxia, cystic fibrosis and bronchitis treatment.	
<b>B14-J02D</b>	<b>. Sympathetic depressants, sympatholytic general and other**</b>	1994		<i>Previous code(s): B12-K06</i>	
	<i>Previous code(s): B12-E06</i>		<b>B14-K01A</b>	<b>. Antiasthmatic</b>	1994
<b>B14-J02D1</b>	<b>.. Alpha-adrenergic blocker**</b>	1994		<i>Previous code(s): B12-D02, B12-K02</i>	
	<i>Previous code(s): B12-E06A</i>		<b>B14-K01B</b>	<b>. Antitussive</b>	1994
<b>B14-J02D2</b>	<b>.. Beta-adrenergic blocker**</b>	1994		<i>Previous code(s): B12-K01</i>	
	<i>Previous code(s): B12-E06B</i>		<b>B14-K01C</b>	<b>. Bronchoconstrictor</b>	1994
<b>B14-J02D3</b>	<b>.. Antidopaminergic**</b>	1994		<i>Previous code(s): B12-K06</i>	
	<i>Previous code(s): B12-E06</i>		<b>B14-K01D</b>	<b>. Bronchodilator</b>	1994
<b>B14-J03</b>	<b>Serotonergic*</b>	1994		<i>Previous code(s): B12-K02</i>	
	<i>Previous code(s): B12-G04</i>		<b>B14-K01E</b>	<b>. Decongestant, expectorant, mucolytic</b>	1994
<b>B14-J04</b>	<b>Antiserotonergic**</b>	1994		From 2006, the scope of this code has been extended to cover decongestants in addition to expectorants and mucolytics.	
	<i>Previous code(s): B12-G01</i>			<i>Previous code(s): B12-K05</i>	
<b>B14-J05</b>	<b>Muscular active general and other (inotropic)</b>	1994	<b>B14-K01F</b>	<b>. Adult respiratory distress syndrome (ARDS)</b>	2002
	<i>Previous code(s): B12-E02</i>				
<b>B14-J05A</b>	<b>. Muscle relaxant (negatively inotropic)</b>	1994	<b>B14-L</b>	<b>AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE</b>	1994
	<i>Previous code(s): B12-E02</i>			The codes in this section are also used for drugs acting at the receptor, e.g. histamine receptor agonist is coded B14-L05.	
<b>B14-J05B</b>	<b>. Mydriatic/myopic/hyperopic</b>	1994			
	<i>Previous code(s): B12-E03</i>		<b>B14-L01</b>	<b>Agonist/mimetic general and other</b>	1994
<b>B14-J05C</b>	<b>. Muscle contractant (positively inotropic)</b>	1994			
	<i>Previous code(s): B12-E02</i>		<b>B14-L01A</b>	<b>. Enzyme agonist/mimetic</b>	2005
<b>B14-J05D</b>	<b>. Antispastic, antispasmodic, spasmolytic, spasm treatment</b>	1994			
	<i>Previous code(s): B12-E02, B12-E04</i>		<b>B14-L01A1</b>	<b>.. Oxidoreductase agonist</b>	2007

<b>B14-L01A2</b>	.. <b>Transferase agonist</b>	2007	<b>B14-L10</b>	<b>H1 antagonist/inhibitor</b>	1994
<b>B14-L01A3</b>	.. <b>Hydrolase agonist</b>	2007		<i>Previous code(s): B12-D06B</i>	
<b>B14-L01A4</b>	.. <b>Lyase agonist</b>	2007	<b>B14-L11</b>	<b>H2 antagonist/inhibitor</b>	1994
<b>B14-L01A5</b>	.. <b>Isomerase agonist</b>	2007		<i>Previous code(s): B12-D06A</i>	
<b>B14-L01A6</b>	.. <b>Synthetase agonist</b>	2007	<b>B14-L12</b>	<b>Proton pump inhibitors</b>	2006
<b>B14-L01B</b>	. <b>Cannabinoid agonist</b>	2006		<i>Previous code(s): B14-L06</i>	
<b>B14-L01C</b>	. <b>PPAR agonist</b> Peroxisome proliferator-activated receptor agonist.	2006	<b>B14-M</b>	<b>ANTIDOTES</b>	1994
<b>B14-L01D</b>	. <b>Nitric oxide agonist</b>	2007		<i>Previous code(s): B12-J05</i>	
<b>B14-L02</b>	<b>Angiotensin agonist/mimetic</b> N.B. Angiotensin antagonists/inhibitors are coded B14-F02B1.	1994	<b>B14-M01</b>	<b>Antidote general and other</b> To be searched for treating chronic and habitual conditions: treating acute intoxication is searched under B14-M03.	1994
<b>B14-L03</b>	<b>Interleukin agonist/mimetic</b>	1994		<i>Previous code(s): B12-J05</i>	
<b>B14-L04</b>	<b>Prostaglandin, leukotriene, thromboxane agonist/mimetic</b>	1994	<b>B14-M01A</b>	. <b>Alcoholism treatment</b>	1994
<b>B14-L05</b>	<b>Histaminergic, histamine agonist/mimetic</b>	1994		<i>Previous code(s): B12-J05A</i>	
<b>B14-L06</b>	<b>Antagonist, inhibitor, antimetabolite general and other</b>	1994	<b>B14-M01A1</b>	.. <b>Alcoholism treatment using replacement therapy</b>	2009
	<i>Previous code(s): B12-G01</i>		<b>B14-M01B</b>	. <b>Antismoking</b>	1994
<b>B14-L06B</b>	. <b>Cannabinoid antagonist</b>	2006		<i>Previous code(s): B12-J05B</i>	
<b>B14-L06C</b>	. <b>PPAR antagonist</b> Peroxisome proliferator-activated receptor antagonist.	2006	<b>B14-M01B1</b>	.. <b>Antismoking treatment using replacement therapy</b> e.g. nicotine replacement patches and gum	2009
<b>B14-L06D</b>	. <b>Nitric oxide antagonist</b>	2007	<b>B14-M01C</b>	. <b>Antidrug addiction</b> Excluding addiction to nicotine and alcohol.	1994
<b>B14-L07</b>	<b>Interleukin antagonist/inhibitor</b>	1994		<i>Previous code(s): B12-J05</i>	
	<i>Previous code(s): B12-G01</i>		<b>B14-M01C1</b>	.. <b>Drug addiction treatment using replacement therapy</b> e.g. methadone treatment	2009
<b>B14-L08</b>	<b>Prostaglandin, leukotriene, thromboxane antagonist/inhibitor</b>	1994	<b>B14-M01D</b>	. <b>Antiheavy metal poisoning</b>	1994
	<i>Previous code(s): B12-G01</i>			<i>Previous code(s): B12-J05C</i>	
<b>B14-L09</b>	<b>Histamine antagonist/inhibitor general and other</b>	1994	<b>B14-M01E</b>	. <b>Pesticide/herbicide antidote</b> Includes herbicide safeners prior to 2009.	1994
	<i>Previous code(s): B12-D06</i>			<i>Previous code(s): B12-J05D</i>	
			<b>B14-M01F</b>	. <b>Protecting plants from poisons</b>	1994-2015
			<b>B14-M02</b>	<b>Pharmaceutical antidote general</b>	2006
			<b>B14-M02A</b>	. <b>Chemoprotectant</b>	2006

<b>B14-M02B</b>	. <b>Radioprotectant</b>	2006	<b>B14-N06A</b>	. <b>Anticaries/antiplaque</b>	1994
<b>B14-M03</b>	<b>Recreational drug antidote general and unspecified</b> To be searched for treating acute intoxication, treating chronic conditions is searched under B14-M01.	2016		<i>Previous code(s): B12-A01,B12-L03</i>	
<b>B14-M03A</b>	. <b>Sobering agent for acute alcohol intoxication</b>	2016	<b>B14-N06B</b>	. <b>Periodontal</b> Includes gingivitis.	1994
<b>B14-M03B</b>	. <b>Antidote for acute recreational drug intoxication other than alcohol</b>	2016		<i>Previous code(s): B12-L03,B12-L04</i>	
<b>B14-N</b>	<b>ORGANS</b>	1994	<b>B14-N07</b>	<b>Urogenital/anorectal disease treatment general and other</b>	1994
<b>B14-N01</b>	<b>Bone disorder treatment, osteoporosis</b> <i>Previous code(s): B12-J08</i>	1994		<i>Previous code(s): B12-A05, B12-D07, B12-G03, B12-G04</i>	
<b>B14-N01A</b>	. <b>Osteoporosis</b>	2005	<b>B14-N07A</b>	. <b>Prostate</b>	1994
<b>B14-N01B</b>	. <b>Fractures, disorders of healing and osteogenesis</b>	2005		<i>Previous code(s): B12-G03,B12-G04</i>	
<b>B14-N02</b>	<b>Ear disorder treatment</b> <i>Previous code(s): B12-L04</i>	1994	<b>B14-N07B</b>	. <b>Cystitis</b>	1994
<b>B14-N02A</b>	. <b>Balance related disorder and vestibular disorder</b>	2008		<i>Previous code(s): B12-D07</i>	
<b>B14-N03</b>	<b>Eye disorder treatment</b> <i>Previous code(s): B12-L04</i>	1994	<b>B14-N07C</b>	. <b>Venereal</b>	1994
<b>B14-N03A</b>	. <b>Glaucoma</b>	2005		<i>Previous code(s): B12-A05</i>	
<b>B14-N04</b>	<b>Nose disorder treatment</b> <i>Previous code(s): B12-L04</i>	1994	<b>B14-N07D</b>	. <b>Incontinence treatment</b>	1994
<b>B14-N05</b>	<b>Mouth/throat disorder treatment</b> <i>Previous code(s): B12-L04</i>	1994		<i>Previous code(s): B12-G03</i>	
<b>B14-N05A</b>	. <b>Mouth disorder</b> E.g. cold sores and xerostomia (chronic dry mouth).	2005	<b>B14-N08</b>	<b>Diuretic</b>	1994
<b>B14-N05B</b>	. <b>Throat disorder</b> Covers throat disorders but excludes disorders of the esophagus.	2005		<i>Previous code(s): B12-G03</i>	
<b>B14-N06</b>	<b>Dental general and other</b> <i>Previous code(s): B12-L03</i>	1994	<b>B14-N09</b>	<b>Antidiuretic</b>	1994
				<i>Previous code(s): B12-G03</i>	
			<b>B14-N10</b>	<b>Kidney</b>	1994
				<i>Previous code(s): B12-G03</i>	
			<b>B14-N11</b>	<b>Thyroid</b>	1994
				<i>Previous code(s): B12-G06</i>	
			<b>B14-N12</b>	<b>Liver</b>	1994
				<i>Previous code(s): B12-G02</i>	
			<b>B14-N13</b>	<b>Pancreas</b>	1994
				<i>Previous code(s): B12-G02</i>	
			<b>B14-N14</b>	<b>Uterus</b> Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under B14-P01B.	1994
				<i>Previous code(s): B12-E09</i>	
			<b>B14-N15</b>	<b>Spleen</b> <i>Previous code(s): B12-G02</i>	1994

<b>B14-N16</b>	<b>Brain and spinal cord</b> Including stroke, meningitis, encephalitis and other prion type diseases. 1994 <i>Previous code(s): B12-C10,B12-E01</i>	<b>B14-P</b>	<b>DRUGS ACTING ON THE REPRODUCTIVE SYSTEM</b> 1994
<b>B14-N16A</b>	. <b>Bovine spongiforme encephalopathy (BSE, "Mad cow disease")</b> 2002	<b>B14-P01</b>	<b>Contraceptive general and other</b> 1994 <i>Previous code(s): B12-K03</i>
<b>B14-N16B</b>	. <b>Creutzfeld Jakob disease (CJD)</b> 2002	<b>B14-P01A</b>	. <b>Male, spermicide</b> 1994 <i>Previous code(s): B12-K03</i>
<b>B14-N16C</b>	. <b>Kuru</b> 2005	<b>B14-P01B</b>	. <b>Female, abortifacient, antiovolatory</b> 1994 <i>Previous code(s): B12-K03</i>
<b>B14-N16D</b>	. <b>Scrapie</b> A fatal degenerative disease affecting the CNS of sheep and goats. 2005	<b>B14-P02</b>	<b>Infertility treatment</b> 1994
<b>B14-N17</b>	<b>Skin treatment general and other</b> Fungal skin diseases are coded under B14-A04. 1994 <i>Previous code(s): B12-A07</i>	<b>B14-P03</b>	<b>Antiabortive</b> 1994 <i>Previous code(s): B12-E09</i>
<b>B14-N17A</b>	. <b>Burn</b> 1994 <i>Previous code(s): B12-A07</i>	<b>B14-P04</b>	<b>Sexual dysfunction</b> Sexual dysfunction general. 2006
<b>B14-N17B</b>	. <b>Wound other (physical trauma)</b> 1994 <i>Previous code(s): B12-A07</i>	<b>B14-P04A</b>	. <b>Male sexual dysfunction</b> 2006
<b>B14-N17C</b>	. <b>Psoriasis, dermatitis</b> 1994 <i>Previous code(s): B12-A07</i>	<b>B14-P04B</b>	. <b>Female sexual dysfunction</b> 2006
<b>B14-N17D</b>	. <b>Acne</b> 1994 <i>Previous code(s): B12-A07</i>	<b>B14-P05</b>	<b>Menopause/andropause and related symptoms</b> To be searched for general references to menopause or andropause where precise hormones affected are not specified. Also may be searched in conjunction with other B14 codes where a condition is specifically attributed to menopause or andropause in the original document e.g. hot flashes. 2016
<b>B14-N17E</b>	. <b>Dandruff and seborrhoea</b> 2005	<b>B14-R</b>	<b>COSMETICS</b> 1994 <i>Previous code(s): B12-L02</i>
<b>B14-N17F</b>	. <b>Antiscarring</b> 2005	<b>B14-R01</b>	<b>Cosmetic general and other</b> 1994 <i>Previous code(s): B12-L02</i>
<b>B14-N17G</b>	. <b>Pruritis</b> 2008	<b>B14-R02</b>	<b>Hair preparation</b> 1994 <i>Previous code(s): B12-L05</i>
<b>B14-N17H</b>	. <b>Dermal ulcers</b> Also includes cold sores, which are additionally coded with B14-A02A3. 2019	<b>B14-R03</b>	<b>Antiperspirant</b> 1994 <i>Previous code(s): B12-L01</i>
<b>B14-N18</b>	<b>Mammary gland</b> Including mastitis. 2002	<b>B14-R04</b>	<b>Perfume</b> 1994 <i>Previous code(s): B12-L07</i>
<b>B14-N19</b>	<b>Nail disease treatment</b> Fungal nail diseases also search under B14-A04. 2020	<b>B14-R05</b>	<b>Sunscreen agent</b> 1994 <i>Previous code(s): B12-L08</i>

<b>B14-S</b>	<b>MISCELLANEOUS ACTIVITY TERMS</b>	1994	<b>B14-S11A</b>	. <b>Antiviral vaccine</b>	1994
				<i>Previous code(s): B02-V02</i>	
<b>B14-S01</b>	<b>Multiple sclerosis treatment, demyelinating diseases</b>	1994	<b>B14-S11B</b>	. <b>Other antimicrobial vaccine</b> e.g. antibacterial vaccine.	1994
	<i>Previous code(s): B12-E01</i>			<i>Previous code(s): B02-V02</i>	
<b>B14-S02</b>	<b>Dwarfism treatment</b>	1994	<b>B14-S11B1</b>	.. <b>Antibacterial vaccine</b>	2005
	<i>Previous code(s): B12-G04</i>		<b>B14-S11B2</b>	.. <b>Antiprotozoal vaccine</b>	2005
<b>B14-S03</b>	<b>Gene therapy general</b>	1994	<b>B14-S11B3</b>	.. <b>Antiparasitic vaccine</b>	2005
<b>B14-S03A</b>	. <b>Gene therapy</b>	2002	<b>B14-S11C</b>	. <b>Anticancer vaccine</b>	1994
<b>B14-S03B</b>	. <b>Antisense therapy</b>	2002		<i>Previous code(s): B02-V02</i>	
<b>B14-S03C</b>	. <b>RNA interference</b>	2005	<b>B14-S11D</b>	. <b>Vaccine type</b>	2005
<b>B14-S03D</b>	. <b>shRNA Interference</b>	2008	<b>B14-S11D1</b>	.. <b>Whole-killed (inactive) vaccine</b>	2005
<b>B14-S04</b>	<b>Diabetes</b> This code is used when a drug targets the symptoms and associated disorders. Hypoglycemia is coded B14-F09.	1994	<b>B14-S11D2</b>	.. <b>Live-attenuated (weakened) vaccine</b>	2005
	<i>Previous code(s): B12-H05</i>		<b>B14-S11D3</b>	.. <b>Synthetic/genetically engineered vaccine</b>	2005
<b>B14-S04A</b>	. <b>Type II diabetes</b> Also known as adult onset diabetes or non-insulin dependent diabetes.	2005	<b>B14-S11E</b>	. <b>Therapeutic vaccine other</b> Vaccine other than antimicrobial or anticancer e.g. immunocontraceptive or antiasthma vaccine. Unspecified vaccines should be searched under the general code B14-S11.	2015
<b>B14-S05</b>	<b>Shock treatment general (excluding anaphylactic)</b> Anaphylactic shock is coded B14-G02B.	1994	<b>B14-S11F</b>	. <b>Vaccine adjuvants general</b> This code is also searched when three or more specific subcodes would be applied.	2023
	<i>Previous code(s): B12-A07</i>		<b>B14-S11F1</b>	.. <b>Aluminum adjuvants</b>	2023
<b>B14-S06</b>	<b>Toxic (septic) shock</b>	1994	<b>B14-S11F2</b>	.. <b>Freund's adjuvants</b>	2005
	<i>Previous code(s): B12-A01,B12-A06</i>		<b>B14-S11F3</b>	.. <b>Squalene based adjuvants</b>	2023
<b>B14-S07</b>	<b>Traumatic shock</b>	1994	<b>B14-S11F4</b>	.. <b>Vitamin E/tocopherol based adjuvants</b>	2023
	<i>Previous code(s): B12-C10</i>		<b>B14-S11F5</b>	.. <b>Saponin based adjuvants</b>	2023
<b>B14-S08</b>	<b>Antioxidant/free radical scavenger</b>	1994	<b>B14-S11F6</b>	.. <b>Other adjuvants</b>	2023
<b>B14-S09</b>	<b>Synergist</b>	1994			
	<i>Previous code(s): B12-C09</i>				
<b>B14-S10</b>	<b>Cot death</b>	1994			
<b>B14-S11</b>	<b>Vaccine general</b>	1994			
	<i>Previous code(s): B02-V02</i>				

<b>B14-S12</b>	<b>Veterinary</b> Applied with other activity code(s) to indicate specific veterinary as opposed to medical use.  <i>Previous code(s): B12-L09</i>	<b>1994</b>	<b>B14-S23</b>	<b>Unspecified activity</b> Prior to 2010, this code covered only Chinese medicine documents with no specific Western-style diseases mentioned as being treated. Applied to documents when a pharmaceutical formulation/ substance with pharmaceutical activity is claimed, but no specific disorders are mentioned as being treated, i.e., when no other activity codes can be applied.	<b>2009</b>
<b>B14-S13</b>	<b>Metabolic disorders</b> Includes enzyme deficiencies and conditions arising from such.	<b>2005</b>	<b>B14-S24</b>	<b>Pediatrics/geriatrics</b> Includes treatment for adolescents.	<b>2009</b>
<b>B14-S13A</b>	. <b>Acidosis</b>	<b>2005</b>	<b>B14-S25</b>	<b>Chemotherapy</b>	<b>2010</b>
<b>B14-S14</b>	<b>Joint disorders general</b> Includes conditions affecting tendons and bursa.	<b>2005</b>	<b>B14-S26</b>	<b>Radiotherapy</b>	<b>2010</b>
<b>B14-S14A</b>	. <b>Cartilage and connective tissue disorders</b>	<b>2009</b>	<b>B14-S27</b>	<b>Electromagnetic therapy</b> Includes ultrasound, sonodynamic therapy and phototherapy using high energy photons. Also includes electrical stimulation.	<b>2010</b>
<b>B14-S14B</b>	. <b>Soft tissue disorders</b>	<b>2009</b>	<b>B14-S28</b>	<b>Prodrugs</b> Applied only when the prodrug is the novelty of the invention.	<b>2012</b>
<b>B14-S15</b>	<b>Broad formulation</b> Patent is concerned with the formulation type rather than the drugs contained in it.	<b>2005</b>	<hr/>	<hr/>	
<b>B14-S16</b>	<b>Many diseases treated</b> More than 15 diseases are said to be treated. Specific codes for the individual disease are still included.	<b>2005</b>	<b>B14-Y</b>	<b>GREEN TECHNOLOGY</b> Used when processes/productions are kinder to the environment. Also includes environmentally friendly apparatus.	<b>2006</b>
<b>B14-S18</b>	<b>Drug combination</b> Used when specific combination of drugs is claimed.	<b>2006</b>	<hr/>	<hr/>	
<b>B14-S20</b>	<b>Genetic disorder</b>	<b>2006</b>	<b>B14-Z</b>	<b>GREEN FORMULATION</b> Used when formulations are kinder to the environment. Includes biodegradable.	<b>2012</b>
<b>B14-S20A</b>	. <b>Chromosomal abnormality disorder</b>	<b>2006</b>			
<b>B14-S20B</b>	. <b>Fabry disease</b>	<b>2015</b>			
<b>B14-S20C</b>	. <b>Hunter syndrome</b>	<b>2015</b>			
<b>B14-S21</b>	<b>Cell therapy</b>	<b>2006</b>			
<b>B14-S21A</b>	. <b>Stem cell therapy</b>	<b>2023</b>			
<b>B14-S21B</b>	. <b>CAR T-cell therapy</b>	<b>2023</b>			
<b>B14-S22</b>	<b>Prophylaxis</b> Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder.	<b>2009</b>			

**B15 VITAMINS (from 201101)**

Note that for structurally modified vitamins the suffix A is appended to the relevant parent code. The following compounds although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (B07-D04+), pantothenic acid (B10-C04D), folic acid (B06-D09), choline (B10-A22), inositol (B10-E04A), biotin (B06-F03), p-amino-benzoic acid (B10-B02A), linoleic acid (B10-C04E2) and other unsaturated acids.

<b>B15-A</b>	<b>A VITAMINS</b>	
<b>B15-A00</b>	<b>Vitamin A and carotenoids</b> <i>previously coded B03-A</i>	2011
<b>B15-A00A</b>	. <b>Modified vitamin A and carotenoids</b>	2011
<b>B15-B</b>	<b>B VITAMINS</b>	
<b>B15-B00</b>	<b>B vitamins general</b>	2011
<b>B15-B00A</b>	. <b>Modified B vitamins general</b>	2011
<b>B15-B01</b>	<b>Vitamin B1 (thiamine)</b> <i>previously coded B03-B</i>	2011
<b>B15-B01A</b>	. <b>Modified vitamin B1 (thiamine)</b>	2011
<b>B15-B02</b>	<b>Vitamin B2 (riboflavin)</b> <i>previously coded B03-C</i>	2011
<b>B15-B02A</b>	. <b>Modified vitamin B2 (riboflavin)</b>	2011
<b>B15-B06</b>	<b>Vitamin B6 (pyridoxine)</b> <i>previously coded B03-D</i>	2011
<b>B15-B06A</b>	. <b>Modified vitamin B6 (pyridoxine)</b>	2011
<b>B15-B12</b>	<b>Vitamin B12 and cobalamine</b> <i>previously coded B03-E</i>	2011
<b>B15-B12A</b>	. <b>Modified vitamin B12 and cobalamine</b>	2011
<b>B15-C</b>	<b>C VITAMINS</b>	
<b>B15-C00</b>	<b>Vitamin C (ascorbic acid)</b> <i>previously coded B03-F</i>	2011

<b>B15-C00A</b>	. <b>Modified vitamin C (ascorbic acid)</b>	2011
<b>B15-D</b>	<b>D VITAMINS</b>	
<b>B15-D00</b>	<b>D vitamins general</b> <i>previously coded B03-G</i>	2011
<b>B15-D00A</b>	. <b>Modified D vitamins general</b>	2011
<b>B15-D01</b>	<b>Vitamin D1</b>	2011
<b>B15-D01A</b>	. <b>Modified vitamin D1</b>	2011
<b>B15-D02</b>	<b>Vitamin D2</b>	2011
<b>B15-D02A</b>	. <b>Modified vitamin D2</b>	2011
<b>B15-D03</b>	<b>Vitamin D3</b>	2011
<b>B15-D03A</b>	. <b>Modified vitamin D3</b>	2011
<b>B15-D04</b>	<b>Vitamin D4</b>	2020
<b>B15-D04A</b>	. <b>Modified vitamin D4</b>	2020
<b>B15-D05</b>	<b>Vitamin D5</b>	2020
<b>B15-D05A</b>	. <b>Modified vitamin D5</b>	2020
<b>B15-E</b>	<b>E VITAMINS</b>	
<b>B15-E00</b>	<b>Vitamin E, tocopherols, tocotrienols</b> Includes tocodienols and tocotrienols. <i>previously coded B03-H</i>	2011
<b>B15-E00A</b>	. <b>Modified vitamin E and tocopherols</b>	2011
<b>B15-K</b>	<b>K VITAMINS</b>	
<b>B15-K00</b>	<b>K vitamins general</b> <i>previously coded B03-J</i>	2011
<b>B15-K00A</b>	. <b>Modified K vitamins general</b>	2011
<b>B15-K01</b>	<b>Vitamin K1</b>	2011
<b>B15-K01A</b>	. <b>Modified vitamin K1</b>	2011
<b>B15-K02</b>	<b>Vitamin K2</b>	2011
<b>B15-K02A</b>	. <b>Modified vitamin K2</b>	2011



<b>B15-K03</b>	<b>Vitamin K3</b>	<b>2016</b>
<b>B15-K03A</b>	. <b>Modified vitamin K3</b>	<b>2016</b>
<b>B15-K04</b>	<b>Vitamin K4</b>	<b>2016</b>
<b>B15-K04A</b>	. <b>Modified vitamin K4</b>	<b>2016</b>
<b>B15-K05</b>	<b>Vitamin K5</b>	<b>2011</b>
<b>B15-K05A</b>	. <b>Modified vitamin K5</b>	<b>2011</b>
<b>B15-K06</b>	<b>Vitamin K6</b>	<b>2017</b>
<b>B15-K06A</b>	. <b>Modified vitamin K6</b>	<b>2017</b>
<b>B15-K07</b>	<b>Vitamin K7</b>	<b>2020</b>
<b>B15-K07A</b>	. <b>Modified vitamin K7</b>	<b>2020</b>
<b>B15-P</b>	<b>P VITAMINS</b>	
<b>B15-P00</b>	<b>Vitamin P</b> <i>previously coded B03-K</i>	<b>2011</b>
<b>B15-P00A</b>	. <b>Modified vitamin P</b>	<b>2011</b>
<b>B15-X</b>	<b>PROVITAMINS</b>	<b>2011</b>
<b>B15-Z</b>	<b>GENERAL OR UNSPECIFIED VITAMINS</b> <i>previously coded B03-L</i>	<b>2011</b>

**C:**  
**AGRICULTURAL CHEMICALS**

- C01 Steroids
- C02 Antibiotics (*Vaccines pre-1994, see C14-S11 from 1994*)
- C03 Vitamins (*pre-2011, see C15 from 201101*)
- C04 Natural Products (or Genetically Engineered), Polymers
- C05 Miscellaneous
- C06 Heterocyclics, Fused Ring
- C07 Heterocyclics, Mononuclear
- C08 Aromatics, Polycarbocyclic
- C09 Alicyclics, Polycarbocyclic
- C10 Aromatics and Cycloaliphatics (Mono- and Bicyclic only), Aliphatics
- C11 Processes, Apparatus
- C12 Diagnostics and Formulation Types (*Therapeutic, Pesticidal, Herbicidal pre-1994*)
- C14 Agricultural Activities
- C15 Vitamins (*from 201101*)

## C: AGRICULTURAL CHEMICALS

Before 1994 section C codes were generated by replacing "B" letter in Pharmaceuticals by "C". The notes referring to "B" codes applied equally to "C" codes in Agricultural Chemicals unless stated otherwise. A compound is normally assigned only one code from sections C01 to C10 according to the priority rule of C01 before C02 etc.

Compounds of known structure are always coded according to chemical structure in C05 to C10 and C15. However, steroids, antibiotics, vitamins and natural products (and their derivatives) are coded respectively in C01, C02, C03/C15 and C04 unless stated otherwise (see C03/15, C03-J, C03-K, C04-A07A, C04-A07E for exclusions).

The code commenced in 1963 for Pharmaceuticals (Farmdoc) and 1965 for Agricultural Chemicals (Agdoc).

## C01 STEROIDS

This section covers all compounds containing the basic steroidal nucleus (cyclopentanophenanthrene ring), which may have other rings (carbocyclic or heterocyclic) fused onto it. Compounds which contain heteroatoms within the basic cyclopentanophenanthrene ring (e.g. azasteroids) are excluded. Homosteroids (containing extra carbon in the ring), norsteroids (missing one carbon in the ring) and secosteroids (bonds broken, e.g. vitamin D) are also excluded. Steroids of unknown structure are also coded under C04-B02D: (before 1994) or C04-J02 (after 1994). All groups listed include derivatives. Thus hydroxy includes ethers, esters and cyclic derivatives (linked via an oxygen atom to a steroid carbon atom). All the compound types listed may contain additional substituents, provided that they are not specified for an earlier occurring code.

### Conventions used

- 1 Steroids containing thio-groups (e.g. mercapto or thione), are assigned the same code as the corresponding oxygen containing compounds.
- 2 17, 20 and 21 hydroxy include all cyclic derivatives linked via -O- to 17, 20 or 21, provided these are not linked via atoms other than O(S) to 17, 20 or 21 positions.
- 3 3, 17 and 20 ketone include oxime, hydrazone etc., hemi-ketal, ketal (including those cyclic derivatives which satisfy convention (2)).
- 4 In deciding precedence, the highest priority is given to the lowest number.
- 5 'Y' represents 2-4 carbon chain (including Z), but includes cyclic derivatives only when they satisfy conventions (2) or (3).
- 6 'Z' represents hydroxyacetyl or 1,2-dihydroxyethyl (specific subset of Y).

<b>C01-A</b>	<b>1,3,5(10)-TRIENES</b>
<b>C01-A01</b>	<b>Estrones (3-ol, 17-one)</b>
<b>C01-A02</b>	<b>Estradiols (3,17-diol)</b>
<b>C01-A03</b>	<b>Others</b>
<b>C01-B</b>	<b>RING 'A' DIENES</b>
<b>C01-B01</b>	<b>Prednisones (3,11-dione; 17-ol; 17-Z)</b>

<b>C01-B02</b>	<b>Prednisolones (3-one; 11,17-diol; 17-Z)</b>
<b>C01-B03</b>	<b>Other 1,4-dienes</b>
<b>C01-B04</b>	<b>Others</b>
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<b>C01-C</b>	<b>RING 'A' MONOENES</b>
<b>C01-C01</b>	<b>Cortisones (3,11-dione; 17-ol; 17-Z)</b>
<b>C01-C02</b>	<b>Cortisols (3-one; 11,17-diol; 17-Z)</b>
<b>C01-C03</b>	<b>17-hydroxylprogesterones (3-one; 17-acetyl)</b>
<b>C01-C04</b>	<b>Progesterones (3-one; 17-acetyl)</b>
<b>C01-C05</b>	<b>Testosterones (3-one; 17-ol)</b>
<b>C01-C06</b>	<b>Pregn(3 or 4)enes (17-Y)</b>
<b>C01-C07</b>	<b>Pregn(1 or 2)enes (17-Y)</b>
<b>C01-C08</b>	<b>Pregn(5(10) or 1(10))enes (17-Y)</b>
<b>C01-C09</b>	<b>Androst(3 or 4)enes</b>
<b>C01-C10</b>	<b>Androst(1 or 2)enes</b>
<b>C01-C11</b>	<b>Androst(5(10) or 1(10))enes</b>
<hr/>	
<b>C01-D</b>	<b>SATURATED RING 'A'</b>
<b>C01-D01</b>	<b>Pregnanes (17-Y)</b> Including cardenolides and digoxin.
<b>C01-D02</b>	<b>Androstanes</b>
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<b>C01-E</b>	<b>STEROIDS NO STRUCTURE</b>
<b>C01-E</b>	<b>Steroids no structure</b> Non-structural steroids other than steroid hormones e.g. plant sterols. <i>Previous code(s): C04-J02</i>

2010

## **C02 ANTIBIOTICS (Vaccines pre-1994, see C14-S11 from 1994)**

Antibiotics are coded using the first letter of the parent antibiotic (where this is known or given), for example, dihydrostreptomycin is coded C02-S, chlortetracycline C02-T and adriamycin (doxorubicin) C02-D. Un-named or general antibiotics are coded C02-Z. Vaccines, anti-toxins used as vaccines etc. are coded C02-V02 (before 1994) and C14-S11+ (from 1994). "C" and "P" antibiotics including cephalosporins and penicillins are subdivided further. All antibiotics are covered in this section even if they are not being used for their antibiotic properties.

<b>C02-C</b>	<b>"C" ANTIBIOTICS, GENERAL</b>
<b>C02-C</b>	<b>General</b>
<b>C02-C01</b>	<b>"C" antibiotics other than cephalosporins</b> 1977
<b>C02-C02</b>	<b>Ring modified cephalosporins</b> This code covers cephalosporins with no -(CH <sub>2</sub> ) <sub>X</sub> (X=H or substituent) at 3-position, or two substituents at 7-position. 1977
<b>C02-C03</b>	<b>Other 3 unsubstituted methyl, 7-monosubstituted cephalosporins</b> 1977
<b>C02-C04</b>	<b>Other 7-monosubstituted cephalosporins</b> Including lactones. 1977
<hr/>	
<b>C02-P</b>	<b>"P" ANTIBIOTICS, GENERAL</b>
<b>C02-P</b>	<b>General</b>
<b>C02-P01</b>	<b>"P" antibiotics other than penicillins</b> 1977
<b>C02-P02</b>	<b>6-acetamidopenicillins, alpha-substituted by N-atom</b> 1977
<b>C02-P03</b>	<b>Other 6-acetamidopenicillins</b> 1977
<b>C02-P04</b>	<b>Other penicillins</b> With beta-lactam ring with 6 position substituted by group other than acetamide 2012
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<b>C02-V</b>	<b>"V" ANTIBIOTICS, VACCINES (PRE-1994)</b>
<b>C02-V</b>	<b>General</b> 1965-1993

<b>C02-V01</b>	<b>"V" Antibiotics</b>	1986
<b>C02-V02</b>	<b>Vaccines</b> Excluding interferon. The code C12-A06 for antiviral is not additionally searchable.  <i>Now coded as: C14-S11+</i>	1986-1993
<b>C02-V03</b>	<b>Interferon</b> Not additionally searchable as polypeptide C04-C01:  <i>Now coded as: C04-H05+</i>	1986-1993
<hr/>		
<b>C02-Z</b>	<b>"Z" ANTIBIOTICS, GENERAL</b>	
<b>C02-Z</b>	<b>General</b>	
<b>C02-Z01</b>	<b>Z antibiotics general</b>	2022

## **C03 VITAMINS (retired end 2010, coded in C15 from 201101)**

Each sub-group includes related compounds with similar activity, and pro-vitamins. The following compounds although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (C07-D04+), pantothenic acid (C10-C04D), folic acid (C06-D09), choline (C10-A22), inositol (C10-E04A), biotin (C06-F03), p-amino-benzoic acid (C10-B02A), linoleic acid (C10-C04E2) and other unsaturated acids.

<b>C03-A</b>	<b>A and carotenoids</b> <i>now coded C15-A00+</i>	retired end 2010
<b>C03-B</b>	<b>B1 (thiamin)</b> <i>now coded C15-B01+</i>	retired end 2010
<b>C03-C</b>	<b>B2 (riboflavin)</b> <i>now coded C15-B02+</i>	retired end 2010
<b>C03-D</b>	<b>B6 (pyridoxine)</b> <i>now coded C15-B06+</i>	retired end 2010
<b>C03-E</b>	<b>B12 and cobalamine</b> <i>now coded C15-B12+</i>	retired end 2010
<b>C03-F</b>	<b>C (ascorbic acid)</b> <i>now coded C15-C00+</i>	retired end 2010
<b>C03-G</b>	<b>D (calciferol)</b> <i>now coded C15-D00+</i>	retired end 2010
<b>C03-H</b>	<b>E and tocopherols</b> <i>now coded C15-E00+</i>	retired end 2010
<b>C03-J</b>	<b>Vitamin K</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only. <i>now coded C15-K00+</i>	retired end 2010
<b>C03-K</b>	<b>Vitamin P and others</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only. <i>now coded C15-P00+</i>	retired end 2010
<b>C03-L</b>	<b>General</b> <i>now coded C15-Z00</i>	retired end 2010

## C04 NATURAL PRODUCTS (OR GENETICALLY ENGINEERED), POLYMERS

In general, natural products are coded according to their most descriptive feature (usually chemical), thus (i) milk is coded C04-B04K only, and not also C04-B04G (gland extract) or C04-B04L (mammalian extract); (ii) a polysaccharide obtained from a plant is coded C04-C02D only, and not also C04-A07F.

The following compounds and their derivatives are coded in C04 only, and not also according to their chemical structure:- tropanes, scopolamine, quinine, quinidine, lysergic acid, morphine, yohimbanes, xanthines, rotenone, pyrethroids, gibberellins, nucleosides and nucleotides, prostaglandins.

If a compound's structure or activity suggest it may be a natural product analogue it is coded in C04 and structurally.

To distinguish between specifically genetically engineered products and those prepared by other methods, the E suffix (engineered) is appended to codes introduced from 1994 in the appropriate format. For example interleukin 6 prepared by exogenous gene expression in a host is coded C04-H02G0E. All codes which have genetically engineered equivalents are marked #.

### C04-A ALKALOIDS, PLANT EXTRACTS

<b>C04-A01</b>	<b>Belladonna</b> Including tropanes and scopolamines.
<b>C04-A02</b>	<b>Cinchona</b> Including quin(id)ines.
<b>C04-A03</b>	<b>Ergot</b> Including lysergic acid.
<b>C04-A04</b>	<b>Opium</b> Including morphines and morphinans from 198601 but excluding apomorphine.
<b>C04-A05</b>	<b>Rauwolfia</b> Including yohimbanes.
<b>C04-A06</b>	<b>Xanthines</b> i.e. 2,6-dioxopurines.

<b>C04-A07A</b>	. <b>Other alkaloids</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. strychnine is coded C06-E05, vincamine C06-D18. <b>1965</b>
<b>C04-A07A1</b>	.. <b>Vinca alkaloids</b> Includes vincristine, vinblastine, vinorelbine and vindesine. <i>Previous code(s) : C06-D18</i> <b>2010</b>
<b>C04-A07B</b>	. <b>Derris</b> e.g. rotenone. <b>1965</b>
<b>C04-A07C</b>	. <b>Pyrethrins</b> <b>1965</b>
<b>C04-A07D</b>	. <b>Peat, straw, cereal, seeds, bran, whole plants, juice</b> <b>1965-1993</b> <i>Now coded as: C04-A08, C04-A09</i>
<b>C04-A07D1</b>	.. <b>Peat, humic acid</b> <b>1986-1993</b> <i>Now coded as: C04-A09J</i>
<b>C04-A07D2</b>	.. <b>Seeds, husks from seeds, seedmeal, cereal, grain</b> <b>1986-1993</b> <i>Now coded as: C04-A09F</i>
<b>C04-A07D3</b>	.. <b>Wood shavings, bark, sawdust</b> <b>1986-1993</b> <i>Now coded as: C04-A09G</i>
<b>C04-A07D4</b>	.. <b>Grass, straw, hay, plant stems, sap produced by pressing</b> Excluding C04-A07D3. <b>1986-1993</b> <i>Now coded as: C04-A09H</i>
<b>C04-A07D5</b>	.. <b>Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture</b> Excluding C04-A07D4. C11-A is also coded. <b>1986-1993</b> <i>Now coded as: C04-A08+, C04-A09A, C04-A09B, C04-A09D</i>
<b>C04-A07E</b>	. <b>Glycosides, saponins</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. glycyrrhizin is coded C07-A02B. Includes steroidal saponins. <b>1965</b>
<b>C04-A07F</b>	. <b>Plant extract general</b> <b>1965-1993</b> <i>Now coded as: C04-A10</i>

<b>C04-A07F1</b>	<b>.. Mushrooms, toadstools extracts</b> 1986-1993 Now coded as: C04-A10A	<b>C04-A08D #</b>	<b>. Fungi (higher)</b> e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. 1994 Previous code(s): C04-A07D5
<b>C04-A07F2</b>	<b>.. Other plant extracts</b> 1986-1993 Now coded as: C04-A10B+, C04-A09C	<b>C04-A08D1 #</b>	<b>.. Ascomycota</b> 2012
<b>C04-A08 #</b>	<b>Plant divisions and whole plants general and other</b> E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded C04-F08. 1994 Previous code(s): C04-A07D	<b>C04-A08D2 #</b>	<b>.. Basidiomycota</b> 2012
<b>C04-A08A #</b>	<b>. Bryophytes</b> e.g. liverworts and mosses. 1994 Previous code(s): C04-A07D5	<b>C04-A08F #</b>	<b>. Gymnosperms</b> 2012 Previous code(s): C04-A07D5, C04-A08C1
<b>C04-A08A1 #</b>	<b>.. Marchantiophyta (liverworts)</b> 2012	<b>C04-A08F1 #</b>	<b>.. Pinophyta (conifers)</b> 2012
<b>C04-A08A2 #</b>	<b>.. Bryophyta (mosses)</b> 2012	<b>C04-A08F2 #</b>	<b>.. Ginkgophyta</b> 2012
<b>C04-A08A3 #</b>	<b>.. Anthocerotophyta (hornworts)</b> 2012	<b>C04-A08F3 #</b>	<b>.. Cycadophyta (cycads)</b> 2012
<b>C04-A08B #</b>	<b>. Pteridophytes</b> e.g. ferns. 1994 Previous code(s): C04-A07D5	<b>C04-A08F4 #</b>	<b>.. Gnetophyta</b> 2012
<b>C04-A08B1 #</b>	<b>.. Psilotopsida</b> 2012	<b>C04-A08G #</b>	<b>. Angiosperms</b> 2012 Previous code(s): C04-A07D5, C04-A08C2
<b>C04-A08B2 #</b>	<b>.. Equisetopsida</b> 2012	<b>C04-A08G1 #</b>	<b>.. Monocots</b> 2012
<b>C04-A08B3 #</b>	<b>.. Marattiopsida</b> 2012	<b>C04-A08G2 #</b>	<b>.. Dicots</b> 2012
<b>C04-A08B4 #</b>	<b>.. Polypodiopsida</b> 2012	<b>C04-A09 #</b>	<b>Plant parts general and other</b> Plant parts derived from specific plant species are additionally coded in C04-A08. 1994 Previous code(s): C04-A07D
<b>C04-A08C #</b>	<b>. Spermatophytes</b> 1994-2011 Previous code(s): C04-A07D5	<b>C04-A09A #</b>	<b>. Leaves</b> 1994 Previous code(s): C04-A07D5
<b>C04-A08C1 #</b>	<b>.. Gymnosperms</b> e.g. conifers. 1994-2011 Previous code(s): C04-A07D5, now coded as C04-A08F+	<b>C04-A09B #</b>	<b>. Flowers and parts</b> Excluding pollen. 1994 Previous code(s): C04-A07D5
<b>C04-A08C2 #</b>	<b>.. Angiosperms</b> e.g. flowering plants, grass, dicotyledons and monocotyledons. 1994-2011 Previous code(s): C04-A07D5, now coded as C04-A08G+	<b>C04-A09C #</b>	<b>. Pollen</b> 1994 Previous code(s): C04-A07F, C04-B04C2
		<b>C04-A09D #</b>	<b>. Roots</b> 1994 Previous code(s): C04-A07D5
		<b>C04-A09F #</b>	<b>. Seeds, seed husks, seed meal, cereal, grain, nuts, bran</b> 1994 Previous code(s): C04-A07D2

<b>C04-A09G #</b>	. <b>Wood, shavings, bark, sawdust</b> 1994 <i>Previous code(s): C04-A07D3</i>	<b>C04-A98</b>	<b>Patent with herbal composition</b> 2012
<b>C04-A09H #</b>	. <b>Straw, hay, stems, sap, plant resin</b> includes propolis 1994 <i>Previous code(s): C04-A07D4</i>	<b>C04-A99</b>	<b>Patent with hybrid plant</b> 2012
<b>C04-A09J #</b>	. <b>Peat, humic acid</b> 1994 <i>Previous code(s): C04-A07D1</i>	<b>C04-B</b>	<b>ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS</b>
<b>C04-A09K #</b>	. <b>Fruit</b> 2006 <i>Previous codes(s): C04-A09</i>	<b>C04-B01A</b>	. <b>Halogenated oils, waxes, etc.</b> 1965
<b>C04-A10 #</b>	<b>Plant extracts general and other</b> Plant extracts derived from specific plant species are additionally coded in C04-A08. When the use of "Chinese herbal medicine" is claimed this code is applied. 1994 <i>Previous code(s): C04-A07F</i>	<b>C04-B01B</b>	. <b>Fats, lanolin, lipids, glycolipids</b> 1965
<b>C04-A10A #</b>	. <b>Fungal extracts</b> e.g. mushrooms, toadstools but not unicellular fungi. 1994 <i>Previous code(s): C04-A07F1</i>	<b>C04-B01C</b>	. <b>Oils and waxes general</b>
<b>C04-A10B #</b>	. <b>Leaf extracts</b> 1994 <i>Previous code(s): C04-A07F2</i>	<b>C04-B01C1</b>	.. <b>Vegetable oils and waxes</b> e.g. sunflower oil, soy bean oil, cotton seed oil. 1986
<b>C04-A10C #</b>	. <b>Flower extracts</b> e.g. extracts from flower parts excluding pollen. 1994 <i>Previous code(s): C04-A07F2</i>	<b>C04-B01C2</b>	.. <b>Animal oils and waxes</b> e.g. spermaceti, cod liver oil, honeycomb and beeswax. 1986
<b>C04-A10D #</b>	. <b>Pollen extract</b> 1994 <i>Previous code(s): C04-A07F, C04-B04C2</i>	<b>C04-B01C3</b>	.. <b>Mineral oils and waxes</b> e.g. vaseline, petroleum, liquid paraffin and synthetic oils. 1986
<b>C04-A10F #</b>	. <b>Root extracts</b> 1994 <i>Previous code(s): C04-A07F2</i>	<b>C04-B01D</b>	. <b>Other oil and wax derivatives</b> Oils and waxes that are hydrogenated and/or modified by a polymer. May be applied in conjunction with codes from C04-B01C. 2010 <i>Previous code(s): C04-B01C</i>
<b>C04-A10G #</b>	. <b>Seed, seed husk, seed meal, cereal, grain and nut extracts</b> 1994 <i>Previous code(s): C04-A07F2</i>	<b>C04-B02A</b>	. <b>Gibberellins</b> 1965
<b>C04-A10H #</b>	. <b>Wood shaving, bark, sawdust extracts</b> 1994 <i>Previous code(s): C04-A07F2</i>	<b>C04-B02B</b>	. <b>Microorganisms general</b> 1965-1993 <i>Now coded as: C04-F01</i>
<b>C04-A10J #</b>	. <b>Straw, hay, stem and sap extracts</b> 1994 <i>Previous code(s): C04-A07F</i>	<b>C04-B02B1</b>	.. <b>Bacteria</b> e.g. Staphylococcus, Bacillus, Rickettsia. 1986-1993 <i>Now coded as: C04-F10+</i>
<b>C04-A10K #</b>	. <b>Fruit extract</b> 2006	<b>C04-B02B2</b>	.. <b>Fungi</b> e.g. Candida, Aspergillus. 1986-1993 <i>Now coded as: C04-F09+</i>
		<b>C04-B02B3</b>	.. <b>Algae</b> e.g. Spirorella. 1986-1993 <i>Now coded as: C04-F08</i>
		<b>C04-B02B4</b>	.. <b>Viruses</b> 1986-1993 <i>Now coded as: C04-F11</i>



<b>C04-B02B5</b>	<p><b>.. Others</b> e.g. Mycoplasma. <b>1986-1993</b> Now coded as: C04-F06, C04-F07, C04-F10A4</p>	<b>C04-B02D2</b>	<p><b>.. Pancreatic hormones</b> <b>1986-1993</b> Now coded as: C04-J03+</p>
<b>C04-B02C</b>	<p><b>. Enzymes general</b> The code C04-B02C is used when the type of enzyme is unspecified. When specific enzymes are given then these should be coded in C04-B02C1 to C04-B02C7 in preference to C04-B02C. <b>1965-1993</b> Now coded as: C04-L01</p>	<b>C04-B02D3</b>	<p><b>.. Thyroid and parathyroid hormone</b> e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives. <b>1986-1993</b> Now coded as: C04-J04+</p>
<b>C04-B02C1</b>	<p><b>.. Coenzymes</b> <b>1977-1993</b> Now coded as: C04-L02</p>	<b>C04-B02D4</b>	<p><b>.. Pituitary gland hormones</b> e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adrenocorticotrophic hormone (ACTH) corticotrophic, follicle stimulating (FSH), interstitial cell stimulating, prolactin, mammothrophin, somatotropin, thyroid stimulating, thyrotrophic, thyrotropin, vasopressin, chorionic gonadotropin, luteinising, growth and their derivatives. <b>1986-1993</b> Now coded as: C04-J05+</p>
<b>C04-B02C2</b>	<p><b>.. Oxidoreductases</b> <b>1977-1993</b> Now coded as: C04-L03+</p>	<b>C04-B02E</b>	<p><b>. Prostaglandins</b> From 197501 prostaglandins are coded C04-B02E only, and no longer according to their chemical structure. <b>1975-1993</b> Now coded as: C04-H03+</p>
<b>C04-B02C3</b>	<p><b>.. Hydrolases</b> e.g. chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodorinase, collagenase, plasmin, plasminogen. <b>1977-1993</b> Now coded as: C04-L05+</p>	<b>C04-B03</b>	<p><b>Nucleosides and nucleotides general</b> Coenzymes which are nucleotides are also coded C04-B02C1 (before 1994) or C04-L02 (from 1994). Nucleosides and nucleotides containing xanthine bases are coded C04-B03+ and not C04-A06. <b>1965</b></p>
<b>C04-B02C4</b>	<p><b>.. Transferases</b> <b>1986-1993</b> Now coded as: C04-L04+</p>	<b>C04-B03A</b>	<p><b>. Nucleosides</b> e.g. adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded C04-B03D. <b>1986</b></p>
<b>C04-B02C5</b>	<p><b>.. Lyases</b> <b>1986-1993</b> Now coded as: C04-L06</p>	<b>C04-B03B</b>	<p><b>. Nucleotides</b> e.g. adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded C04-B03E. <b>1986</b></p>
<b>C04-B02C6</b>	<p><b>.. Isomerases</b> <b>1986-1993</b> Now coded as: C04-L07</p>		
<b>C04-B02C7</b>	<p><b>.. Ligases (synthetases)</b> <b>1986-1993</b> Now coded as: C04-L08</p>		
<b>C04-B02D</b>	<p><b>. Hormones and steroids general</b> The code C12-G04 or C04-C01 is not additionally applied with C04-B02D2 to C04-B02D4 unless a structure is given in the patent. <b>1965-1993</b> Now coded as: C04-J01, C04-J02, C04-J03, C04-J04, C04-J05</p>		
<b>C04-B02D1</b>	<p><b>.. Steroidal hormones (no complete structure)</b> <b>1986-1993</b> Now coded as: C04-J02</p>		

<b>C04-B03C</b>	<ul style="list-style-type: none"> <li>• <b>Oligonucleotides</b> This code is applied whenever the term "Oligonucleotide" is used in a patent, or otherwise to chains of 3 to 6 nucleotide units. <b>1994</b> <i>Previous code(s): C04-B04A1, C04-B03B</i></li> </ul>	<b>C04-B04A1</b>	<ul style="list-style-type: none"> <li>.. <b>DNA, vector DNA, RNA, nucleic acids</b> <b>1986-1993</b> <i>Now coded as: C04-E02+, C04-E03+, C04-E04, C04-E05, C04-E06, C04-E07, C04-E08</i></li> </ul>
<b>C04-B03D</b>	<ul style="list-style-type: none"> <li>• <b>Modified nucleosides</b> E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleosides. <b>2005</b> <i>Previous code: C04-B03A</i></li> </ul>	<b>C04-B04A2</b>	<ul style="list-style-type: none"> <li>.. <b>Plant cells</b> <b>1986-1993</b> <i>Now coded as: C04-F08</i></li> </ul>
<b>C04-B03E</b>	<ul style="list-style-type: none"> <li>• <b>Modified nucleotides</b> E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleotides. <b>2005</b> <i>Previous code: C04-B03B</i></li> </ul>	<b>C04-B04A3</b>	<ul style="list-style-type: none"> <li>.. <b>Animal cells</b> For blood cells see C04-B04D, microbial cells see C04-B02B. <b>1986-1993</b> <i>Now coded as: C04-F02, C04-F05, C04-F07</i></li> </ul>
<b>C04-B03F</b>	<ul style="list-style-type: none"> <li>• <b>Modified oligonucleotides</b> Compounds where the only modification is one or more deoxyribose sugars are searched as oligonucleotides. For the most general references only. <b>2018</b></li> </ul>	<b>C04-B04A4</b>	<ul style="list-style-type: none"> <li>.. <b>Proteins from plants and mushrooms</b> e.g. gluten. <b>1986-1993</b> <i>Now coded as: C04-N01+</i></li> </ul>
<b>C04-B03F1</b>	<ul style="list-style-type: none"> <li>.. <b>Capped modified oligonucleotides</b> Oligonucleotide must be composed of 7 or fewer nucleobases, see C04-E: for associated capped codes when 8 bases or longer. Includes trinucleotide cap and trinucleotide mRNA cap, particularly those based on m7G (7-methylated-guanine) and analogs. <b>2024</b></li> </ul>	<b>C04-B04A5</b>	<ul style="list-style-type: none"> <li>.. <b>Proteins from microorganisms</b> <b>1986-1993</b> <i>Now coded as: C04-N03+</i></li> </ul>
<b>C04-B03F2</b>	<ul style="list-style-type: none"> <li>.. <b>Other modified oligonucleotides</b> Oligonucleotide must be composed of 7 or fewer nucleobases. <b>2024</b></li> </ul>	<b>C04-B04A6</b>	<ul style="list-style-type: none"> <li>.. <b>Proteins from animals or insects</b> e.g. gelatin, egg white, glycoproteins, gamma globulins, silk. <b>1986-1993</b> <i>Now coded as: C04-N02+</i></li> </ul>
<b>C04-B04A</b>	<ul style="list-style-type: none"> <li>• <b>Proteins, nucleic acids, cells general</b> For antigens see C04-B04C. <b>1965-1993</b> <i>Now coded as: C04-E01, C04-F01, C04-N04, C04-N05, C04-N06</i></li> </ul>	<b>C04-B04B</b>	<ul style="list-style-type: none"> <li>• <b>Animal excrements general</b> <b>1965</b></li> </ul>
		<b>C04-B04B1</b>	<ul style="list-style-type: none"> <li>.. <b>Urine</b> <b>1994</b> <i>Previous code(s): C04-B04B</i></li> </ul>
		<b>C04-B04B2</b>	<ul style="list-style-type: none"> <li>.. <b>Faeces</b> <b>1994</b> <i>Previous code(s): C04-B04B</i></li> </ul>
		<b>C04-B04C</b>	<ul style="list-style-type: none"> <li>• <b>Antigens, general Antibody (pre-1994)</b> <b>1965</b> <i>Previous code(s): C04-G01</i></li> </ul>
		<b>C04-B04C1</b>	<ul style="list-style-type: none"> <li>.. <b>Microbial antigen</b> When used as a vaccine then C02-V02 is coded (before 1994) or C14-S11+ (from 1994). <b>1986</b></li> </ul>
		<b>C04-B04C2</b>	<ul style="list-style-type: none"> <li>.. <b>Other antigens</b> Material which is antigenic is also coded. <b>1986</b></li> </ul>
		<b>C04-B04C3</b>	<ul style="list-style-type: none"> <li>.. <b>Microbial antibody</b> <b>1986-1993</b> <i>Now coded as: C04-G07, C04-G08, C04-G09</i></li> </ul>
		<b>C04-B04C4</b>	<ul style="list-style-type: none"> <li>.. <b>Anticancer antibody</b> <b>1986-1993</b> <i>Now coded as: C04-G05</i></li> </ul>

<b>C04-B04C5</b>	.. <b>Monoclonal antibody</b> 1986-1993 <i>Now coded as: C04-G21</i>	<b>C04-B04D5</b>	.. <b>Whole blood</b> Excluding C04-B04D1 to C04-B04D4. 1986
<b>C04-B04C6</b>	.. <b>Other antibody including immunoglobulin and haemagglutinin</b> 1986-1993 <i>Now coded as: C04-G02, C04-G03, C04-G04, C04-G06, C04-G10, C04-G20, C04-G22</i>	<b>C04-B04E</b>	. <b>Bone, marrow, nails, skin, teeth</b> Includes skin and hair as well as extracts. Also includes horn extract, shell extract and shell powder. 1965, 2010
<b>C04-B04C7</b>	.. <b>Haptens</b> A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule. 1994 <i>Previous code(s): C04-B04C</i>	<b>C04-B04F</b>	. <b>Enzyme inhibitors</b> 1965-1993 <i>Now coded as: C04-M01</i>
<b>C04-B04C8</b>	.. <b>Cancer antigen</b> 2005	<b>C04-B04G</b>	. <b>Gland extracts</b> Includes saliva, snake venom and musk. 1965
<b>C04-B04C9</b>	.. <b>Allergen</b> An antigenic substance capable of producing immediate type hypersensitivity (i.e. an allergic reaction). The specific substance which is antigenic is additionally coded (e.g. C04-C08C2 + C04-A09C for pollen). 2005	<b>C04-B04H</b>	. <b>Organ extracts</b> Including extracts from all body organs, such as, heart, kidney, liver, placenta, nerve, brain, lung, pancreas, intestine, stomach 1965
<b>C04-B04D</b>	. <b>Blood and derivatives general</b> 1965	<b>C04-B04J</b>	. <b>Metabolic factors</b> 1965-1993 <i>Now coded as: C04-H01, C04-H04+, C04-H06+, C04-H08, C04-H09, C04-H10, C04-H12, C04-H13, C04-H14, C04-H16, C04-H17, C04-H18</i>
<b>C04-B04D1</b>	.. <b>Blood cells and derivatives</b> Including leucocytes, erythrocytes, lymphocytes). These are not coded under C04-B04A3. 1986-1993 <i>Now coded as: C04-F04</i>	<b>C04-B04K</b>	. <b>Milk</b> Including derivatives. 1965
<b>C04-B04D2</b>	.. <b>Blood proteins</b> Excluding blood factors. e.g. serum albumin, hemoglobin, fibrinogen (prior to 198601 see also C04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under C04-H19. 1986	<b>C04-B04L</b>	. <b>Other mammalian extracts</b> This code is used for mammalian extracts only (from 1994). For whole mammals see C04-P. 1965
<b>C04-B04D3</b>	.. <b>Blood factors</b> e.g. clotting factors, thrombin (see also C04-B02C3 for prothrombin, fibrinogen). 1986-1993 <i>Now coded as: C04-H01, C04-H13, C04-H14, C04-H15, C04-H19</i>	<b>C04-B04M</b>	. <b>Other non-mammalian extracts</b> This code is used for non-mammalian extracts only (from 1994). For whole animals see C04-P. 1965
<b>C04-B04D4</b>	.. <b>Blood serum, plasma</b> Excluding C04-B04D2/3. 1986	<b>C04-B04M1</b>	.. <b>Arthropod</b> 2012
		<b>C04-B04M2</b>	.. <b>Amphibian</b> 2012
		<b>C04-B04M3</b>	.. <b>Reptile</b> 2012
		<b>C04-B04M4</b>	.. <b>Fish</b> 2012
		<b>C04-B04M5</b>	.. <b>Avian</b> 2012

<b>C04-B04M6</b>	.. <b>Trochozoa</b> Includes annelids (worms) and molluscs. <b>2017</b>	<b>C04-C01F</b>	. <b>26 to 30 alpha amino acid residues</b> <b>1986</b>
<b>C04-B04N</b>	. <b>Eggs</b> Used when the source of the eggs is not specified or where all three subcodes are applicable. Also includes egg parts and egg extracts. Avian eggs code as C04-B04N1 from 201501. <b>2014</b>	<b>C04-C01G</b>	. <b>31 or more alpha amino acid residues</b> This code also includes proteins of defined amino acid sequence. <b>1986</b>
<b>C04-B04N1</b>	.. <b>Avian eggs</b> <i>Previous code(s): C04-B04N</i> <b>2015</b>	<b>C04-C01H</b>	. <b>Modified and/or cyclic peptides</b> Includes analogs. Should be applied in conjunction with a length code selected from C04-C01A to C04-C01G. Not used for peptides cyclized purely by disulfide bridge formation. <b>2005</b>
<b>C04-B02N2</b>	.. <b>Fish eggs, fish roe</b> <b>2015</b>	<b>C04-C02</b>	<b>Polysaccharides general</b> These must contain at least 7 sugar residues in sequence.
<b>C04-B04N3</b>	.. <b>Eggs from other sources</b> Includes insect and reptile eggs. <b>2015</b>	<b>C04-C02A</b>	. <b>Cellulose and derivatives</b> <b>1986</b>
<b>C04-C</b>	<b>POLYMERS</b> The generic codes C04-C01, C04-C02 and C04-C03 are only used for general disclosures which would otherwise require several specific codes. Therefore when a specific code is searched, the corresponding generic code must also be searched.	<b>C04-C02A1</b>	.. <b>Unmodified cellulose</b> <b>1986</b>
<b>C04-C01</b>	<b>Polypeptides general</b> Polypeptides containing four or more peptide units are coded from C04-C01A to C04-C01G only, tripeptides are coded both C04-C01A and according to their chemical structure (in C05 to C10) and dipeptides are coded according to their chemical structures only. Cystine represents two amino acid residues. Polypeptide/protein sequences are further coded under C04-N.	<b>C04-C02A2</b>	.. <b>Cellulose ethers</b> e.g. carboxymethylcellulose. <b>1986</b>
<b>C04-C01A</b>	. <b>3 to 5 alpha amino acid residues</b> <b>1986</b>	<b>C04-C02A3</b>	.. <b>Cellulose esters</b> e.g. cellulose acetate. <b>1986</b>
<b>C04-C01B</b>	. <b>6 to 10 alpha amino acid residues</b> <b>1986</b>	<b>C04-C02B</b>	. <b>Starch, dextrin and derivatives</b> <b>1986</b>
<b>C04-C01C</b>	. <b>11 to 15 alpha amino acid residues</b> <b>1986</b>	<b>C04-C02B1</b>	.. <b>Cyclodextrin and derivatives</b> <b>1986</b>
<b>C04-C01D</b>	. <b>16 to 20 alpha amino acid residues</b> <b>1986</b>	<b>C04-C02B2</b>	.. <b>Unmodified starch</b> <b>1986</b>
<b>C04-C01E</b>	. <b>21 to 25 alpha amino acid residues</b> <b>1986</b>	<b>C04-C02B3</b>	.. <b>Modified starch</b> Includes derivatives of starch such as carboxymethylstarch. <b>2010</b> <i>Previous code(s): C04-C02B</i>
		<b>C04-C02B4</b>	.. <b>Dextrin</b> <b>2012</b>
		<b>C04-C02C</b>	. <b>Dextran</b> <b>1986</b>
		<b>C04-C02D</b>	. <b>Polysaccharides from plant</b> Excluding cellulose, starch, dextran, dextrin. Including pectin, plant gums, alginate, agar. Code(s) for the appropriate plant division(s) are also applied, if source plant(s) known. <b>1986</b>
		<b>C04-C02E</b>	. <b>Polysaccharides from animal, bird, reptile or arthropod</b> <b>1986</b>

<b>C04-C02E1</b>	<b>.. Heparin (optionally modified)</b> 1986	<b>C04-D01A</b>	<b>. Honey</b> 2011
<b>C04-C02E2</b>	<b>.. Chondroitin (optionally modified)</b> 1986	<b>C04-D02</b>	<b>Others</b> Includes any other natural product not covered by other codes e.g. clay, minerals, etc.
<b>C04-C02E3</b>	<b>.. Chitin (optionally modified)</b> C04-C02F may be also searched if chitin is obtained from fungal source. 1986	<b>C04-D03</b>	<b>Biomass</b> 1994 <i>Previous code(s): C04-A07D, C04-A07F, C04-B02B, C04-B04B, C04-B04L, C04-B04M</i>
<b>C04-C02E4</b>	<b>.. Hyaluronic acid (optionally modified)</b> 2012	<hr/>	
<b>C04-C02F</b>	<b>. Polysaccharides from microbial sources</b> Polysaccharide which is modified microbiologically can be also searched under the code for the original polysaccharide. 1986	<b>C04-E</b>	<b>NUCLEIC ACIDS</b> E suffix is not appended to the codes in this section. 1994
<b>C04-C02V</b>	<b>. Lipopolysaccharide</b> 1994 <i>Previous code(s): C04-C02, C04-B01B</i>	<b>C04-E01</b>	<b>Nucleic acid general and other</b> This code covers only non-specific or general nucleic acid. It is not used to replace three or more codes for specific forms of DNA/RNA which are all coded individually in section C04-E02 to C04-E08. For example, if a patent claims: 1) a DNA construct coding for 5-HT receptor, 2) a vector, 3) a nucleic acid probe, 4) antisense oligonucleotide, the codes are: C04-B03C, C04-E03D, C04-E05, C04-E06, C04-E08. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-C02X</b>	<b>. Oligosaccharides</b> This code is applied whenever the term oligosaccharide is used in a patent, or otherwise to chains of 3 to 6 sugar units. Tetrahydropyran(furan) are <b>not</b> coded unless they are ring modified. 1994	<b>C04-E01A</b>	<b>. DNA</b> Deoxyribonucleic acid. 2018
<b>C04-C03</b>	<b>Polymers general</b>	<b>C04-E01B</b>	<b>. RNA</b> Ribonucleic acid. 2018
<b>C04-C03A</b>	<b>. Poly N-vinyl-lactams</b> 1975	<b>C04-E01X</b>	<b>. Capped nucleic acids</b> Includes trinucleotide capped sequences, particularly those based around m7G (7-methylated guanine) and analogs. To be searched alongside all other applicable codes from C04-E relating to the nucleic acid. 2024
<b>C04-C03B</b>	<b>. Other addition</b> 1975	<b>C04-E02</b>	<b>Altered DNA coding sequences</b> This code includes engineered, recombinant constructs, chimeric genes, heterologous genes, fusion genes, allelic variants, mutant allele and RNA transcripts. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-C03C</b>	<b>. Polyethers</b> Including thioethers and sulfides. 1975	<b>C04-E02A</b>	<b>. Coding for antibodies</b> 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-C03D</b>	<b>. Natural, other condensation</b> 1994		
<b>C04-C03E #</b>	<b>. Dendrimers</b> 2002		
<b>C04-C03F</b>	<b>. Silicones</b> 2005 <i>Previous code: C04-C03D</i>		
<hr/>			
<b>C04-D</b>	<b>OTHER NATURAL PRODUCTS</b>		
<b>C04-D01</b>	<b>Sugars (mono- or disaccharides)</b> This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition. Includes molasses.		

<b>C04-E02B</b>	. <b>Coding for modifiers of cell function and growth</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E03J</b>	. <b>Encoding antigens</b> 2007 <i>Previous code(s): C04-E03F</i>
<b>C04-E02C</b>	. <b>Coding for hormones</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E03K</b>	. <b>Encoding nucleic acid</b> 2009
<b>C04-E02D</b>	. <b>Coding for receptors</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E04</b>	<b>Promoters, enhancers, regulatory sequences</b> 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-E02E</b>	. <b>Coding for enzymes</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E05</b>	<b>Primers, probes</b> Probes are coded in conjunction with C12-K04G codes, e.g. a probe for detecting cancer is coded C04-E05 and C12-K04G2A. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-E02F</b>	. <b>Coding for other protein/polypeptide</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E06</b>	<b>Antisense sequences</b> Excluding antisense probes. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-E02G</b>	. <b>Oncogene</b> 2002	<b>C04-E07</b>	<b>Other non-coding sequences</b> This code includes ribozyme, ribosomal, transfer, mitochondrial. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-E02H</b>	. <b>Encoding fusion protein</b> 2002	<b>C04-E07A</b>	. <b>Ribozyme</b> An RNA molecule that has catalytic activity. 2005
<b>C04-E02J</b>	. <b>Encoding antigens</b> 2007 <i>Previous code(s): C04-E02F</i>	<b>C04-E07B</b>	. <b>DNAzyme</b> A DNA molecule that has catalytic activity. 2005
<b>C04-E02K</b>	. <b>Encoding nucleic acid</b> 2009	<b>C04-E07C</b>	. <b>siRNA (short interfering RNA)</b> Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction. 2005
<b>C04-E03</b>	<b>Other DNA coding sequences</b> These codes cover wild type genes and their fragments, and include their RNA transcripts. 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E07D</b>	. <b>miRNA</b> Micro RNA. 2005
<b>C04-E03A</b>	. <b>Coding for antibodies</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E07E</b>	. <b>shRNA</b> Small hairpin RNA. 2006
<b>C04-E03B</b>	. <b>Coding for modifiers of cell function and growth</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E07F</b>	. <b>Aptamer</b> 2007
<b>C04-E03C</b>	. <b>Coding for hormones</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E08</b>	<b>Vectors, plasmids, cosmids, transposons</b> Viral vector is coded under virus. 1994 <i>Previous code(s): C04-B04A1</i>
<b>C04-E03D</b>	. <b>Coding for receptors</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E09</b>	<b>Single Nucleotide Polymorphism (SNP)</b> 2002
<b>C04-E03E</b>	. <b>Coding for enzymes</b> 1994 <i>Previous code(s): C04-B04A1</i>	<b>C04-E10</b>	<b>Peptide nucleic acid</b> 2002
<b>C04-E03F</b>	. <b>Coding for other protein/polypeptide</b> 1994 <i>Previous code(s): C04-B04A1</i>		
<b>C04-E03G</b>	. <b>Oncogene</b> 2002		
<b>C04-E03H</b>	. <b>Encoding fusion protein</b> 2002-2008		

<b>C04-E11</b>	<b>Other analog nucleic acid</b>	2002	<b>C04-F04 #</b>	<b>Blood cells (general)</b>	1994
<b>C04-E12</b>	<b>Reporter/marker nucleic acid</b>	2002		This code covers non-specific blood cells or when three or more specific types of blood cells are mentioned.	
<b>C04-E13</b>	<b>CRISPR</b>			<i>Previous code(s): C04-B04D1</i>	
	Clustered Regularly Interspaced Short Palindromic Repeats. Includes SPIDR (Spacer Interspersed Direct Repeats). May be additionally searched with CRISPR nuclease (C04-L05A2) if the system also contains a claimed enzymatic component e.g. CRISPR/Cas system.	1994	<b>C04-F04A #</b>	<b>. Red blood cells</b>	2006
<b>C04-E14</b>	<b>Bacterial nucleic acid</b>	2021		<i>Previous code(s): C04-F04</i>	
<b>C04-E15</b>	<b>Viral nucleic acid</b>	2021	<b>C04-F04B #</b>	<b>. White blood cells (general)</b>	
<b>C04-E16</b>	<b>Fungal nucleic acid</b>	2022		This code is used when non-specific white blood cells are mentioned or when three or more white blood cell types are mentioned.	2006
<b>C04-E99</b>	<b>Patent with Geneseq record</b>	2008		<i>Previous code(s): C04-F04</i>	
<b>C04-F</b>	<b>CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS</b>		<b>C04-F04B1 #</b>	<b>.. Lymphocytes</b>	2006
	E suffix is appended to codes for cells which are products of genetic manipulation, but not to naturally occurring mutant microbial strains, cell fusion products or chemical mutagenesis products.	1994		<i>Previous code(s): C04-F04</i>	
<b>C04-F01 #</b>	<b>Cells, microorganisms, transformants, hosts, cell lines, tissue general</b>	1994	<b>C04-F04B1A</b>	<b>... T-lymphocytes</b>	2006
	<i>Previous code(s): C04-B02B, C04-B04A, C04-B04D1</i>			<i>Previous code(s): C04-F04</i>	
<b>C04-F02 #</b>	<b>Mammal (including human)</b>	1994	<b>C04-F04B1B</b>	<b>... B-lymphocytes</b>	2006
	<i>Previous code(s): C04-B04A3</i>			<i>Previous code(s): C04-F04</i>	
<b>C04-F02A #</b>	<b>. Cancer cells/carcinoma</b>	2002	<b>C04-F04B2 #</b>	<b>.. Other white blood cells</b>	2006
<b>C04-F02B #</b>	<b>. Stem cells</b>			<i>Previous code(s): C04-F04</i>	
	Cell that can replicate indefinitely and differentiate into other cells.	2005	<b>C04-F04B2A</b>	<b>... Dendritic cells</b>	2006
<b>C04-F02C #</b>	<b>. Progenitor cells</b>			<i>Previous code(s): C04-F04</i>	
	Cell that is more advanced than a stem cell, giving rise to a distinct cell lineage.	2017	<b>C04-F04B2B</b>	<b>... Macrophages</b>	2006
<b>C04-F03 #</b>	<b>Sperm, ova (germ cells)</b>	1994		<i>Previous code(s): C04-F04</i>	
	<i>Previous code(s): C04-B02D</i>		<b>C04-F04B2C</b>	<b>... Neutrophils</b>	2006
				<i>Previous code(s): C04-F04</i>	
			<b>C04-F04B2D</b>	<b>... Others</b>	2006
				<i>Previous code(s): C04-F04</i>	
			<b>C04-F05 #</b>	<b>Hybridoma</b>	1994
				<i>Previous code(s): C04-B04A3</i>	
			<b>C04-F05A #</b>	<b>. Chimeric &amp; fused cells</b>	2005
				Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under C04-F05.	
			<b>C04-F06 #</b>	<b>Protozoa</b>	1994
				<i>Previous code(s): C04-B02B5</i>	
			<b>C04-F07 #</b>	<b>Other animal</b>	1994
				<i>Previous code(s): C04-B04A3</i>	

<b>C04-F07A #</b>	. <b>Arthropod</b>	<b>2002</b>	<b>C04-F10A3 #</b>	.. <b>Escherichia</b> e.g. E. coli.	<b>1994</b>
<b>C04-F07B #</b>	. <b>Amphibian</b>	<b>2002</b>		<i>Previous code(s): C04-B02B1</i>	
<b>C04-F07C #</b>	. <b>Reptile</b>	<b>2002</b>	<b>C04-F10A4 #</b>	.. <b>Mycoplasma</b> e.g. M. pneumoniae, M. mycoides.	<b>1994</b>
<b>C04-F07D #</b>	. <b>Fish</b>	<b>2002</b>		<i>Previous code(s): C04-B02B1</i>	
<b>C04-F07E #</b>	. <b>Avian</b>	<b>2006</b>	<b>C04-F10A5 #</b>	.. <b>Neisseria</b> e.g. N. gonorrhoeae, N. meningitides.	<b>1994</b>
	<i>Previous code(s): C04-F07</i>			<i>Previous code(s): C04-B02B1</i>	
<b>C04-F08 #</b>	<b>Plant/algae</b>	<b>1994</b>	<b>C04-F10A6 #</b>	.. <b>Pseudomonas</b> e.g. P. aeruginosa, P. mallei.	<b>1994</b>
	<i>Previous code(s): C04-B04A2, C04-B02B3</i>			<i>Previous code(s): C04-B02B1</i>	
<b>C04-F08A #</b>	. <b>Algae</b> Includes diatoms.	<b>2008</b>	<b>C04-F10A7 #</b>	.. <b>Rickettsia</b> e.g. R. prowazekii.	<b>1994</b>
<b>C04-F09 #</b>	<b>Yeast/fungus general and other</b>	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B2</i>		<b>C04-F10A8 #</b>	.. <b>Salmonella</b> e.g. S. typhi.	<b>1994</b>
<b>C04-F09A #</b>	. <b>Aspergillus</b> e.g. A. nidulans, A. fumigatus, A. flavus, A. niger, A. oryzae.	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B2</i>		<b>C04-F10A9 #</b>	.. <b>Vibrio</b> e.g. V. cholerae, V. parahemolyticus.	<b>1994</b>
<b>C04-F09B #</b>	. <b>Neurospora</b> e.g. N. crassa.	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B2</i>		<b>C04-F10B #</b>	. <b>Gram-positive genera, general and other</b>	<b>1994</b>
<b>C04-F09C #</b>	. <b>Saccharomyces</b> e.g. S. pombe, S. cerevisiae (brewer's yeast)	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B2</i>		<b>C04-F10B1 #</b>	.. <b>Bacillus</b> e.g. B. subtilis.	<b>1994</b>
<b>C04-F09D #</b>	. <b>Pichia</b> e.g. Pichia pastoris	<b>2005</b>		<i>Previous code(s): C04-B02B1</i>	
<b>C04-F09E #</b>	. <b>Multicellular fungi, non-higher</b>	<b>2012</b>	<b>C04-F10B2 #</b>	.. <b>Mycobacteria</b> e.g. M. tuberculosis, M. bovis, M. leprae, M. phlei.	<b>1994</b>
<b>C04-F10 #</b>	<b>Bacteria general</b>	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B1</i>		<b>C04-F10B3 #</b>	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermidis.	<b>1994</b>
<b>C04-F10A #</b>	. <b>Gram-negative genera, general and other</b>	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B1</i>		<b>C04-F10B4 #</b>	.. <b>Streptococcus</b> e.g. S. pyogenes, S. fecalis.	<b>1994</b>
<b>C04-F10A1 #</b>	.. <b>Bordetella</b> e.g. B. pertussis.	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B1</i>		<b>C04-F10B5 #</b>	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies.	<b>1994</b>
<b>C04-F10A2 #</b>	.. <b>Borrelia</b>	<b>1994</b>		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B02B1</i>				



<b>C04-F11 #</b>	<b>Viruses</b> Including bacteriophage lambda and viral vectors.  1994 <i>Previous code(s): C04-B02B4</i>	<b>C04-G01B #</b>	<b>. Human antibody</b> An antibody produced from a single human cell line.  2005
<b>C04-F11A #</b>	<b>. DNA virus general</b> Virus that infects foreign DNA into host cell, which then produces viral protein.  2005	<b>C04-G01C</b>	<b>. Humanised antibody</b> An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response.  2005
<b>C04-F11A1 #</b>	<b>.. Adenovirus</b> Includes adeno-associated virus.  2007	<b>C04-G01D #</b>	<b>. Murine antibody</b> An antibody produced from a single mouse cell line.  2005
<b>C04-F11B #</b>	<b>. RNA virus general</b> Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced.  2005	<b>C04-G02 #</b>	<b>Antimodifier of cell function and growth, antihormone antibody</b> 1994 <i>Previous code(s): C04-B04C6</i>
<b>C04-F11B1 #</b>	<b>.. Retrovirus</b>  2007	<b>C04-G03 #</b>	<b>Antienzyme antibody</b> 1994 <i>Previous code(s): C04-B04C6</i>
<b>C04-F11B2 #</b>	<b>.. Coronavirus</b> Including COVID-19.  2021	<b>C04-G04 #</b>	<b>Antireceptor antibody</b> 1994 <i>Previous code(s): C04-B04C6</i>
<b>C04-F12 #</b>	<b>Minicells &amp; organelles</b> E.g. mitochondria and any sub-cellular particle.  2005	<b>C04-G05 #</b>	<b>Anticancer cell antibody</b> 1994 <i>Previous code(s): C04-B04C4</i>
<b>C04-F12A #</b>	<b>. Chloroplasts</b>  2022	<b>C04-G06 #</b>	<b>Antiblood cells antibody</b> e.g. antibody to T-cell, B-cell. 1994 <i>Previous code(s): C04-B04C6</i>
<b>C04-F13 #</b>	<b>Platelets</b>  2010	<b>C04-G07 #</b>	<b>Antibacteria antibody</b> 1994 <i>Previous code(s): C04-B04C3</i>
<b>C04-G</b>	<b>ANTIBODY DEFINED IN TERMS OF ANTIGEN</b> E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology.  1994	<b>C04-G08 #</b>	<b>Antivirus antibody</b> 1994 <i>Previous code(s): C04-B04C3</i>
<b>C04-G01 #</b>	<b>General and other</b> Also includes general and unspecified immunoglobulins (specific immunoglobulins may be searched under the heading C04-G27:).  1994 <i>Previous code(s): C04-B04C</i>	<b>C04-G09 #</b>	<b>Antimicroorganisms (other) antibody</b> 1994 <i>Previous code(s): C04-B04C3</i>
<b>C04-G01A</b>	<b>. Chimeric antibody</b> An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.  2005	<b>C04-G09A #</b>	<b>. Antifungus antibody</b> 2008
		<b>C04-G09B #</b>	<b>. Antiprotozoal antibody</b> 2008
		<b>C04-G10 #</b>	<b>Antiplant antibody</b> 1994 <i>Previous code(s): C04-B04C6</i>
		<b>C04-G11 #</b>	<b>Antibody binding to another antibody</b> Also includes anti-idiotypic antibody.  2006

<b>C04-G12 #</b>	<b>Antiparasitic antibody</b> Antibody acting against parasitic organisms/any kind of parasites other than bacteria, virus, fungi, protozoa.	<b>2011</b>	<b>C04-G27E #</b>	<b>. Immunoglobulin E</b> May be searched in conjunction with additional codes from C04-G.	<b>2016</b>
<b>C04-G20 #</b>	<b>Catalytic antibodies</b> Including abzyme. This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code.	<b>1994</b>	<b>C04-G27G #</b>	<b>. Immunoglobulin G</b> May be searched in conjunction with additional codes from C04-G.	<b>2016</b>
<b>C04-G21 #</b>	<b>Monoclonal antibody</b> This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code.	<b>1994</b>	<b>C04-G27M #</b>	<b>. Immunoglobulin M</b> May be searched in conjunction with additional codes from C04-G.	<b>2016</b>
<b>C04-G22 #</b>	<b>Polyclonal antibodies</b> This is another definition of antibodies than in terms of antigen. This code is applied in conjunction with one of C04-G01 to C04-G20.	<b>1994</b>	<b>C04-G27X #</b>	<b>. Immunoglobulin X</b> May be searched in conjunction with additional codes from C04-G. Not coded where X is stated in the document to represent an undefined or general immunoglobulin.	<b>2024</b>
<b>C04-G23 #</b>	<b>Antibody fragments</b>	<b>2006</b>	<b>C04-G27W #</b>	<b>. Immunoglobulin W</b> Found in sharks and skates; related to mammalian IgD. May be searched in conjunction with additional codes from C04-G.	<b>2021</b>
<b>C04-G24 #</b>	<b>Bispecific antibodies</b>	<b>2006</b>	<b>C04-G27Y #</b>	<b>. Immunoglobulin Y</b> May be searched in conjunction with additional codes from C04-G.	<b>2020</b>
<b>C04-G25 #</b>	<b>Anti-prion protein antibodies</b>	<b>2008</b>	<b>C04-H</b>	<b>MODIFIERS OF CELL FUNCTION AND GROWTH</b> The term "modifier of cell function and growth" includes all biological response modifiers (immune system mediators) such as: prostaglandins, cytokines, monokines, interleukines, lymphokines (a subset of interleukines), CSFs, interferons, the growth factors, somatomedins and blood factors. All of these are proteins except for prostaglandins. The E suffix is appended to codes to indicate that molecules are produced by exogenous gene expression in host cells as well as derivatives modified at the genetic level.	<b>1994</b>
<b>C04-G26 #</b>	<b>Heterospecific antibody</b> An individual antibody which can bind more than one antigen due to the presence of two or more different binding sites. May be searched in conjunction with additional codes from C04-G.	<b>2016</b>			
<b>C04-G27</b>	<b>Immunoglobulins (specific)</b> Only specific immunoglobulins are covered within this coding section. General and unspecified immunoglobulins should be searched using C04-G01.	<b>2016</b>			
<b>C04-G27A #</b>	<b>. Immunoglobulin A</b> May be searched in conjunction with additional codes from C04-G.	<b>2016</b>			
<b>C04-G27D #</b>	<b>. Immunoglobulin D</b> May be searched in conjunction with additional codes from C04-G.	<b>2016</b>			

<b>C04-H01 #</b>	<b>Modifier of cell function and growth general and other</b> This code is applied when either a generic term such as cytokine, is used or when a specific substance does not fit into any category covered by C04-H02 to C04-H20B. It also includes blood factors general and other. <b>1994</b> <i>Previous code(s): C02-V03, C04-B02C, C04-B02E, C04-B04A, C04-B04D, C04-C01</i>	<b>C04-H02Q #</b>	<b>Interleukins 14-20</b> <i>Previous code(s): C04-H02</i> <b>2006</b>
<b>C04-H02 #</b>	<b>Interleukins general and other</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H02R #</b>	<b>Interleukins 21-25</b> <i>Previous code(s): C04-H02</i> <b>2006</b>
<b>C04-H02A #</b>	<b>Interleukin 1</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H02S #</b>	<b>Interleukins 26-30</b> <i>Previous code(s): C04-H02</i> <b>2006</b>
<b>C04-H02B #</b>	<b>Interleukin 2</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H02T #</b>	<b>Interleukins 31-35</b> <i>Previous code(s): C04-H02</i> <b>2006</b>
<b>C04-H02C #</b>	<b>Interleukin 3 (Multi-CSF)</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03</b>	<b>Prostaglandins general and other</b> Includes all modified prostaglandins not covered more specifically in subcodes. <i>Previous code(s): C04-B02E</i> <b>2016</b>
<b>C04-H02D #</b>	<b>Interleukin 4</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03A</b>	<b>Prostaglandin E1</b> <i>Previous code(s): C04-B02E</i> <b>1994</b>
<b>C04-H02F #</b>	<b>Interleukin 5</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03B</b>	<b>Prostaglandin E2</b> <i>Previous code(s): C04-B02E</i> <b>1994</b>
<b>C04-H02G #</b>	<b>Interleukin 6</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03C</b>	<b>Prostaglandin F2 alpha</b> <i>Previous code(s): C04-B02E</i> <b>1994</b>
<b>C04-H02H #</b>	<b>Interleukin 7</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03D</b>	<b>Prostacyclin (Prostaglandin I2)</b> <i>Previous code(s): C04-B02E, C06-A02</i> <b>1994</b>
<b>C04-H02J #</b>	<b>Interleukin 8 (NAP, Neutrophil Activating Protein)</b> <i>Previous code(s): C04-C01G, C04-B04A</i> <b>1994</b>	<b>C04-H03F</b>	<b>Leukotrienes</b> <i>Previous code(s): C04-B02E, C07-A03, C10-B02D, C10-C04D</i> <b>1994</b>
<b>C04-H02K #</b>	<b>Interleukin 9</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H03G</b>	<b>Thromboxanes</b> <i>Previous code(s): C04-B02E, C06-A02, C07-A02</i> <b>1994</b>
<b>C04-H02L #</b>	<b>Interleukin 10</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H04 #</b>	<b>CSFs (Colony Stimulating Factors) General and other</b> <i>Previous code(s): C04-B04J</i> <b>1994</b>
<b>C04-H02M #</b>	<b>Interleukin 11</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H04A #</b>	<b>G-CSF (Granulocyte Colony Stimulating Factor)</b> <i>Previous code(s): C04-B04J</i> <b>1994</b>
<b>C04-H02N #</b>	<b>Interleukin 12</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H04B #</b>	<b>M-CSF (Macrophage Colony Stimulating Factor)</b> <i>Previous code(s): C04-B04J</i> <b>1994</b>
<b>C04-H02P #</b>	<b>Interleukin 13</b> <i>Previous code(s): C04-C01G</i> <b>1994</b>	<b>C04-H04C #</b>	<b>GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)</b> <i>Previous code(s): C04-B04J</i> <b>1994</b>

<b>C04-H04D #</b>	. <b>MEG-CSF (Megakaryocyte Colony Stimulating Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H06K #</b>	. <b>HGF (Hepatocyte Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>
<b>C04-H05 #</b>	<b>Interferons general and other</b> 1994 <i>Previous code(s): C02-V03</i>	<b>C04-H06L #</b>	. <b>Bone morphogenetic protein</b> 2002
<b>C04-H05A #</b>	. <b>Interferon alpha</b> 1994 <i>Previous code(s): C02-V03</i>	<b>C04-H06M #</b>	. <b>Vascular endothelial growth factor</b> Also known as VEGF. 2006 <i>Previous code(s): C04-H06</i>
<b>C04-H05B #</b>	. <b>Interferon beta</b> 1994 <i>Previous code(s): C02-V03</i>	<b>C04-H07 #</b>	<b>Erythropoietin (Epo), thrombopoietin</b> 1994 <i>Previous code(s): C04-B04A6, C04-B02D, thrombopoietin C04-H06 (pre-2010)</i>
<b>C04-H05C #</b>	. <b>Interferon gamma</b> 1994 <i>Previous code(s): C02-V03</i>	<b>C04-H08 #</b>	<b>TNF (Tumor Necrosis Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>
<b>C04-H05D #</b>	. <b>Interferon delta</b> 2024 <i>Previous code(s): C02-V03</i>	<b>C04-H09 #</b>	<b>LIF (Leukemia inhibitory factor)</b> 1994 <i>Previous code(s): C04-B04J</i>
<b>C04-H05K #</b>	. <b>Interferon kappa</b> 2024 <i>Previous code(s): C02-V03</i>	<b>C04-H10 #</b>	<b>MIS (Mullerian inhibitory substance)</b> 1994 <i>Previous code(s): C04-B04J</i>
<b>C04-H06 #</b>	<b>Growth factors general and other</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H11 #</b>	<b>MIP (Macrophage inflammatory protein)</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-H06A #</b>	. <b>EGF (Epidermal Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H12 #</b>	<b>Megakaryocyte potentiator</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>
<b>C04-H06B #</b>	. <b>PDGF (Platelet Derived Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H13 #</b>	<b>Lymphotoxin (LT)</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04D3, C04-B04J</i>
<b>C04-H06C #</b>	. <b>MDGF (Macrophage Derived Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H14 #</b>	<b>PAF (Platelet activating factor)</b> 1994 <i>Previous code(s): C04-B04D3, C04-B04J</i>
<b>C04-H06D #</b>	. <b>NGF (Nerve Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H15 #</b>	<b>PA (Plasminogen Activator)</b> 1994 <i>Previous code(s): C04-B02C3, C04-B04D3</i>
<b>C04-H06F #</b>	. <b>TGF (Transforming Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H16 #</b>	<b>SCF (Stem Cell Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>
<b>C04-H06G #</b>	. <b>FGF (Fibroblast Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H17 #</b>	<b>T-Activin (TA, Thymic factor)</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>
<b>C04-H06H #</b>	. <b>Somatomedins, sulfation factors</b> This code includes IGF's (insulin-like growth factors). 1994 <i>Previous code(s): C04-B04J</i>		
<b>C04-H06J #</b>	. <b>PGF (Prostatic Growth Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>		

<b>C04-H18 #</b>	<b>Activin A (EDF, Erythroid differentiation factor)</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>	<b>C04-H20C1 #</b>	<b>.. Actin</b> 2002
<b>C04-H19 #</b>	<b>Clotting factors</b> Including: thrombin (fibrinogenase, thrombase), prothrombin (thrombinogen, Factor II), fibrin, fibrinogen (Factor I), Factor III (tissue thromboplastin, tissue factor), Factor V (proaccelerin, accelerator globulin (AcG), labile factor), Factor VII (proconvertin, thrombokinese, autoprothrombin I, serum prothrombin conversion accelerator (SPCA), stable factor), Factor VIII (antihemophilic globulin (AHG), antihemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihemophilic factor B), Factor X (stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinese), Factor XI (plasma thromboplastin antecedent (PTA), antihemophilic factor C), Factor XII (Hageman factor, glass contact, activation factor), Factor XIII (fibrin stabilising factor (FSF), fibrinase, Laki-Lorand factor (LLF), transglutaminase) and the platelet factors 1, 2, 3 & 4 etc. N.B. Factor IV, which, is calcium, is coded C05-A01B. The clot-dissolving proteolytic enzyme plasmin (fibrinolysin) and plasminogen are coded C04-L05C. 1994 <i>Previous code(s): C04-B02C3, C04-B02D2, C04-B04D3, C04-C02B3</i>	<b>C04-H20C2 #</b>	<b>.. Myosin</b> 2002
<b>C04-H20 #</b>	<b>Adhesion and motor molecules general and other</b> e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular cell adhesion molecule). 1994 <i>Previous code(s): C04-B04A6, C04-B04C2</i>	<b>C04-H20C3 #</b>	<b>.. Tropomyosin</b> 2002
<b>C04-H20A #</b>	<b>. Fibronectin</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-H21 #</b>	<b>Integrins</b> 2002
<b>C04-H20B #</b>	<b>. Vitronectin</b> 1994 <i>Previous code(s): C04-B04A6</i>	<hr/>	
<b>C04-H20C #</b>	<b>. Muscle proteins general</b> 2002	<b>C04-J</b>	<b>HORMONES</b> 1994
		<b>C04-J01 #</b>	<b>Hormones general and other</b> Hormones which are not covered by the C04-J03, C04-J04 and C04-J05 general sub-headings and are not represented in C04-J06 to C04-J18 are coded here. e.g. generic terms such as hypothalamic, adrenergic, neuropeptide, gastrointestinal and insect hormones. 1994 <i>Previous code(s): C04-B02D</i>
		<b>C04-J02</b>	<b>Steroidal hormones (no structure)</b> Includes all steroids where no structure is given. 1994 <i>Previous code(s): C04-B02D1</i>
		<b>C04-J03 #</b>	<b>Pancreatic hormone general and other</b> Including pancreatic polypeptide. 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J03A #</b>	<b>. Insulin</b> 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J03B #</b>	<b>. Glucagon</b> 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J04 #</b>	<b>Thyroid and parathyroid general and other</b> N.B.thyroxine is coded C10-B2E. 1994 <i>Previous code(s): C04-B02D3</i>
		<b>C04-J04A #</b>	<b>. Calcitonin</b> 1994 <i>Previous code(s): C04-B02D3</i>
		<b>C04-J04B #</b>	<b>. Parathyroid hormone</b> 1994 <i>Previous code(s): C04-B02D3</i>
		<b>C04-J05 #</b>	<b>Pituitary gland hormones general and other</b> Including prolactin and human growth hormone. 1994 <i>Previous code(s): C04-B02D4</i>

<b>C04-J05A #</b>	<ul style="list-style-type: none"> <li><b>Oxytocin</b> 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J11 #</b>	<b>Endorphins/enkephalins</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05B #</b>	<ul style="list-style-type: none"> <li><b>ADH (Antidiuretic hormone)</b> Also known as vasopressin. 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J12 #</b>	<b>Gastrin/Secretin/Motilin</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05D #</b>	<ul style="list-style-type: none"> <li><b>ACTH (Adrenocorticotrophic hormone, adrenocorticotropin)</b> 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J13 #</b>	<b>Cholecystokinin (CCK-PZ, Pancreozymin)</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05F #</b>	<ul style="list-style-type: none"> <li><b>TSH (Thyroid Stimulating Hormone)</b> 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J14 #</b>	<b>Tachykinins (Substance p = SP)</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05G #</b>	<ul style="list-style-type: none"> <li><b>MSH (Melanocyte stimulating hormone)</b> 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J15 #</b>	<b>Neurotensin</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05H #</b>	<ul style="list-style-type: none"> <li><b>Gonadotropins</b> Including FSH (=follicle stimulating hormone), LH (=luteinising hormone), HMG (=human menopausal gonadotropin). 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J16 #</b>	<b>Ecdysone</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J05J #</b>	<ul style="list-style-type: none"> <li><b>STH (Somatotropic growth hormone)</b> 1994 <i>Previous code(s): C04-B02D4</i></li> </ul>	<b>C04-J17 #</b>	<b>Juvenile hormone</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J06 #</b>	<ul style="list-style-type: none"> <li><b>CRH (Corticotropin-releasing hormone)</b> Hormones covered by C04-J06 to C04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones. 1994 <i>Previous code(s): C04-B02D</i></li> </ul>	<b>C04-J18 #</b>	<b>Angiotensin</b> 1994 <i>Previous code(s): C04-B02D</i>
<b>C04-J07 #</b>	<ul style="list-style-type: none"> <li><b>GN-RH (Gonadotropin-releasing hormone), LH-RH (Luteinising hormone-releasing hormone)</b> 1994 <i>Previous code(s): C04-B02D</i></li> </ul>	<b>C04-J19 #</b>	<b>Melanin concentrating hormone</b> Also known as MCH, a 19 amino acid cyclic neuropeptide that is expressed mainly in the hypothalamus. 2005 <i>Previous code(s): C04-B02D, C04-J01</i>
<b>C04-J08 #</b>	<ul style="list-style-type: none"> <li><b>TRH (Thyrotropin-releasing hormone)</b> 1994 <i>Previous code(s): C04-B02D</i></li> </ul>	<b>C04-J20 #</b>	<b>Phytohormones (no structure)</b> Includes cytokinins, auxins and other plant hormones where no structure is specified. 2014
<b>C04-J09 #</b>	<ul style="list-style-type: none"> <li><b>GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor)</b> 1994 <i>Previous code(s): C04-B02D</i></li> </ul>	<b>C04-J99 #</b>	<b>Prohormone</b> e.g. progastrin, procalcitonin. To be coded in conjunction with the active form of the appropriate hormone. 2018
<b>C04-J10 #</b>	<ul style="list-style-type: none"> <li><b>Somatostatin</b> 1994 <i>Previous code(s): C04-B02D</i></li> </ul>	<b>C04-K</b>	<b>RECEPTORS</b> 1994
		<b>C04-K01 #</b>	<b>Receptor general and other</b> Including orphan G-protein coupled receptors CD4:(1) is coded here when described simply as a receptor.(2) is coded C04-K01U when described as a viral receptor. 1994 <i>Previous code(s): C04-B04A6</i>
		<b>C04-K01A #</b>	<ul style="list-style-type: none"> <li><b>Parasympathetic receptor (cholinergic receptor)</b> 1994 <i>Previous code(s): C04-B04A6</i></li> </ul>

<b>C04-K01B #</b>	. <b>Sympathetic receptor (adrenergic receptor, alpha and beta)</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01R #</b>	. <b>Blood cell or blood cell antigen receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01C #</b>	. <b>Dopamine receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01S #</b>	. <b>Cancer cell or cancer cell antigen receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01D #</b>	. <b>Serotonin (5HT) receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01T #</b>	. <b>Bacterial or bacterial antigen receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01F #</b>	. <b>Histamine receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01U #</b>	. <b>Viral or viral antigen receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01G #</b>	. <b>Interleukin receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01V #</b>	. <b>Other cell, microbe or antigen receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01H #</b>	. <b>Prostaglandin/leukotriene/thromboxane receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01W #</b>	. <b>Antibody receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-K01J #</b>	. <b>Growth factor receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01X #</b>	. <b>Non-steroidal nuclear (hormone) receptor</b> 2002
<b>C04-K01K #</b>	. <b>Other modifier of cell function and growth receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01X1 #</b>	.. <b>Peroxisome proliferator activated receptor (orphan receptor)</b> Also known as PPAR. 2005
<b>C04-K01L #</b>	. <b>Steroid receptor</b> e.g. mineralocorticoid, corticosteroid, estrogen receptor. 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-K01X2 #</b>	.. <b>Thyroid receptor</b> 2005
<b>C04-K01L1 #</b>	.. <b>Androgen receptors</b> 2005	<b>C04-K01Y #</b>	. <b>G-protein coupled receptor</b> 2002
<b>C04-K01L2 #</b>	.. <b>Estrogen receptors</b> 2005	<b>C04-K01Y1 #</b>	.. <b>Melanin concentrating hormone receptor</b> 2005
<b>C04-K01L3 #</b>	.. <b>Corticosteroid receptors</b> 2005	<b>C04-K01Z #</b>	. <b>Enzyme receptor</b> 2014
<b>C04-K01L4 #</b>	.. <b>Other steroid receptors</b> 2005	<b>C04-L</b>	<b>ENZYMES</b> Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature. 1994
<b>C04-K01M #</b>	. <b>Insulin receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-L01 #</b>	<b>Enzymes, catalytic proteins general and other</b> 1994 <i>Previous code(s): C04-B02C</i>
<b>C04-K01N #</b>	. <b>Angiotensin receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-L02 #</b>	<b>Coenzymes</b> 1994 <i>Previous code(s): C04-B02C1</i>
<b>C04-K01P #</b>	. <b>Other hormone receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-L03 #</b>	<b>Oxidoreductases general and other</b> 1994 <i>Previous code(s): C04-B02C2</i>
<b>C04-K01Q #</b>	. <b>Lipoprotein (LDL, HDL) receptor</b> 1994 <i>Previous code(s): C04-B04A6</i>		

<b>C04-L03A #</b>	. <b>Oxidases</b> <i>Previous code(s): C04-B02C2</i> 1994	<b>C04-L05C #</b>	. <b>Proteases, peptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, collagenases, elastases. <i>Previous code(s): C04-B02C3</i> 1994
<b>C04-L03B #</b>	. <b>Peroxidases</b> <i>Previous code(s): C04-B02C2</i> 1994	<b>C04-L05C1 #</b>	.. <b>Metalloproteases</b> 2005
<b>C04-L03C #</b>	. <b>Oxygenases</b> Including cytochrome P450. <i>Previous code(s): C04-B02C2</i> 1994	<b>C04-L06 #</b>	<b>Lyases</b> Including adenyl cyclases, (de)carboxylases, aldolases, dehydratases. <i>Previous code(s): C04-B02C5</i> 1994
<b>C04-L03D #</b>	. <b>Dehydrogenases, reductases</b> <i>Previous code(s): C04-B02C2</i> 1994	<b>C04-L07 #</b>	<b>Isomerases</b> Including racemases, tautomerases, epimerases, mutases. <i>Previous code(s): C04-B02C6</i> 1994
<b>C04-L03E #</b>	. <b>Lipoxygenases</b> 2002	<b>C04-L08 #</b>	<b>Ligases</b> Including synthetases, some carboxylases, aromatase. Excludes synthase. <i>Previous code(s): C04-B02C7</i> 1994
<b>C04-L04 #</b>	<b>Transferases general and other</b> <i>Previous code(s): C04-B02C4</i> 1994	<b>C04-L09 #</b>	<b>Zymogen and other enzyme precursors</b> 2002
<b>C04-L04A #</b>	. <b>DNA/RNA polymerases</b> <i>Previous code(s): C04-B02C4</i> 1994	<b>C04-L10 #</b>	<b>Translocases</b> Enzymes in class EC7. 2020
<b>C04-L04B #</b>	. <b>Reverse transcriptase</b> <i>Previous code(s): C04-B02C4</i> 1994	<hr/>	<b>C04-M</b>
<b>C04-L04C #</b>	. <b>Kinases</b> Any of several enzymes that catalyse the transfer of a phosphate group from ATP to a second substrate. <i>Previous code(s): C04-L04</i> 2005		<b>ENZYME INHIBITORS</b> 1994
<b>C04-L05 #</b>	<b>Hydrolases general and other</b> <i>Previous code(s): C04-B02C3</i> 1994	<b>C04-M01 #</b>	<b>Enzyme inhibitors general and other</b> This code is used for enzyme inhibitors with no structure only. <i>Previous code(s): C04-B04F</i> 1994
<b>C04-L05A #</b>	. <b>Esterases</b> Including lipases, nucleases, restriction enzymes, sulfatases, phosphatases. <i>Previous code(s): C04-B02C3</i> 1994	<hr/>	<b>C04-N</b>
<b>C04-L05A1 #</b>	.. <b>Phosphodiesterases</b> 2005		<b>OTHER PROTEIN/POLYPEPTIDE</b> This code is used only when a substance is not better defined in preceding sections, e.g. a protein with adenyl cyclase activity is coded C04-L06 only. 1994
<b>C04-L05A2 #</b>	.. <b>CRISPR system nucleases</b> Nucleases specifically for application in CRISPR systems e.g. Cas9 and Cpf1. 2017	<b>C04-N01 #</b>	<b>Plant protein/polypeptide (No sequence)</b> <i>Previous code(s): C04-B04A4, C04-C01</i> 1994
<b>C04-L05B #</b>	. <b>Glycosidases</b> Including amylases, cellulases, lactases. <i>Previous code(s): C04-B02C3</i> 1994	<b>C04-N01A #</b>	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A4</i> 1994



<b>C04-N01B #</b>	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): C04-B04A4</i>	<b>C04-N03G #</b>	. <b>Fungal protein/polypeptide with complete amino acid sequence</b> Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03L1</i>
<b>C04-N02 #</b>	<b>Animal protein/polypeptide (No sequence)</b> 1994 <i>Previous code(s): C04-B04A6, C04-C01</i>	<b>C04-N03H #</b>	. <b>Fungal protein/polypeptide with fragments of amino acid sequence</b> 2006-2010 <i>now coded C04-N03L2</i>
<b>C04-N02A #</b>	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-N03J #</b>	. <b>Bacterial protein/polypeptide (No sequence)</b> 2011
<b>C04-N02B #</b>	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-N03J1 #</b>	.. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> 2011 <i>Previous code(s): C04-N03C</i>
<b>C04-N03 #</b>	<b>Microorganism protein/polypeptide (No sequence)</b> 1994 <i>Previous code(s): C04-B04A5, C04-C01</i>	<b>C04-N03J2 #</b>	.. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b> 2011 <i>Previous code(s): C04-N03D</i>
<b>C04-N03A #</b>	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. 1994 <i>Previous code(s): C04-B04A5</i>	<b>C04-N03K #</b>	. <b>Viral protein/polypeptide (No sequence)</b> 2011
<b>C04-N03B #</b>	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): C04-B04A5</i>	<b>C04-N03K1 #</b>	.. <b>Viral protein/polypeptide with complete amino acid sequence</b> 2011 <i>Previous code(s): C04-N03E</i>
<b>C04-N03C #</b>	. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03J1</i>	<b>C04-N03K2 #</b>	.. <b>Viral protein/polypeptide with fragments of amino acid sequence</b> 2011 <i>Previous code(s): C04-N03F</i>
<b>C04-N03D #</b>	. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b> 2006-2010 <i>now coded C04-N03J2</i>	<b>C04-N03L #</b>	. <b>Fungal protein/polypeptide (No sequence)</b> 2011
<b>C04-N03E #</b>	. <b>Viral protein/polypeptide with complete amino acid sequence</b> Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03K1</i>	<b>C04-N03L1 #</b>	.. <b>Fungal protein/polypeptide with complete amino acid sequence</b> 2011 <i>Previous code(s): C04-N03G</i>
<b>C04-N03F #</b>	. <b>Viral protein/polypeptide with fragments of amino acid sequence</b> 2006-2010 <i>now coded C04-N03K2</i>	<b>C04-N03L2 #</b>	.. <b>Fungal protein/polypeptide with fragments of amino acid sequence</b> 2011 <i>Previous code(s): C04-N03H</i>
		<b>C04-N04 #</b>	<b>Protein/polypeptide of undefined origin (No sequence)</b> 1994 <i>Previous code(s): C04-B04A, C04-C01</i>

<b>C04-N04A #</b>	<p><b>. Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04A</i></p>	<b>C04-N15</b>	<p><b>Crystalline form</b> Used in conjunction with other specific protein codes for protein crystals.</p> <p style="text-align: right;"><b>2010</b></p>
<b>C04-N04B #</b>	<p><b>. Fragments of amino acid sequence given</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04A</i></p>	<b>C04-N16</b>	<p><b>Biomarker protein</b> Applied with one or more other codes from section C04 which describe the type of biomarker protein e.g. EGFR used as a biomarker for colorectal cancer would be coded with C04-K01J and C04-N16.</p> <p style="text-align: right;"><b>2017</b></p>
<b>C04-N05 #</b>	<p><b>Lipoprotein</b> Also includes lipopeptides.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04A, C04-B01B</i></p>	<b>C04-P</b>	<p><b>WHOLE ANIMALS</b> E suffix is appended to respective whole animal codes for transgenic animals.</p> <p style="text-align: right;"><b>1994</b></p>
<b>C04-N06 #</b>	<p><b>Glycoprotein, peptidoglycan and cytoskeletal proteins</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04A</i></p>	<b>C04-P01 #</b>	<p><b>Whole animals general and other</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04L, C04-B04M</i></p>
<b>C04-N07 #</b>	<p><b>Ion channel protein</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C04-P01A #</b>	<p><b>. Laboratory experimental animals</b> e.g. mice, rats.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04L, C04-B04M</i></p>
<b>C04-N08</b>	<p><b>Fusion protein</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C04-P01B #</b>	<p><b>. Farm animals</b> e.g. cows, sheep.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04L, C04-B04M</i></p>
<b>C04-N09 #</b>	<p><b>Molecular chaperones and chaperonins</b> E.g. heat shock proteins (HSP).</p> <p style="text-align: right;"><b>2005</b></p> <p><i>Previous code(s): C04-N01, C04-N02, C04-N04</i></p>	<b>C04-P01C #</b>	<p><b>. Arthropods</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C04-B04M</i></p>
<b>C04-N10</b>	<p><b>Prions</b> Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep.</p> <p style="text-align: right;"><b>2005</b></p> <p><i>Previous code: C04-N02</i></p>	<b>C04-Q</b>	<p><b>DRUG CONJUGATES GENERAL</b> All portions of the conjugate are additionally coded in the relevant sections.</p> <p style="text-align: right;"><b>2013</b></p>
<b>C04-N11 #</b>	<p><b>Zinc finger proteins</b> Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins.</p> <p style="text-align: right;"><b>2005</b></p> <p><i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i></p>	<b>C04-Q01</b>	<p><b>Antibody-drug conjugates</b> The antibody is additionally coded in section C04-G.</p> <p style="text-align: right;"><b>2013</b></p>
<b>C04-N12 #</b>	<p><b>Transcription factors general</b> A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription.</p> <p style="text-align: right;"><b>2005</b></p> <p><i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i></p>	<b>C04-Q02</b>	<p><b>Other protein/peptide drug conjugates</b> The protein / peptide is also coded in the appropriate section(s) of C04.</p> <p style="text-align: right;"><b>2013</b></p>
<b>C04-N13 #</b>	<p><b>Signalling pathway proteins</b></p> <p style="text-align: right;"><b>2006</b></p>	<b>C04-Q03</b>	<p><b>Synthetic polymer-drug conjugates</b> Also includes drug conjugates with polysaccharides. The polymer/polysaccharide is additionally coded in C04.</p> <p style="text-align: right;"><b>2013</b></p>
<b>C04-N14</b>	<p><b>Peptidomimetics</b></p> <p style="text-align: right;"><b>2008</b></p>		

**C04-Q04**      **Nucleic acid-drug conjugates**  
The nucleic acid is additionally coded in section C04-B03 and/or C04-E.

2017

**C04-R**      **BIOSIMILARS**  
Includes biobetters. Search in conjunction with relevant C-code(s) for the biosimilar product. Applicable only for explicitly claimed biosimilars.

2016

## C05 MISCELLANEOUS

This section covers all inorganic compounds, and also all organic compounds containing elements other than H, C, N, O, S and halogens (other than the exceptions given in the notes).

The order of priorities for this group is generally C01A-B02C > A01A > C01-C08 (e.g. sodium phosphate is only coded as C05-B02A3). The exception to the above is when the anion (of the lower priority) of a metal salt is an important factor in the invention, e.g. effervescent compositions containing sodium bicarbonate are coded C05-C04 and not C05-A01B. Fullerenes and metallocenes are not within the above hierarchy. Sub-group A elements (i.e. metals) when used as salts of organic compounds, are only coded in C05 if the metal is an essential limiting factor of the invention. Otherwise the compound is coded under the parent compound (i.e. acid, alcohol, etc.).

### C05-A METALS AND COMPOUNDS

**C05-A01**      **Group 1, 2, 3 general**  
May be applied in C as a higher term where both C05-A01A and C05-A01B would be coded

1965

**C05-A01A**      • **Potassium**  
This code is not used for organic compounds unless potassium is an essential pharmaceutically active limiting factor of the invention (e.g. K salts used for treating hypokalemia).

1965

**C05-A01B**      • **Group 1a, 2a, 3a excluding K, B, Ra**  
This code is not used for organic compounds unless the metal is an essential pharmaceutically active limiting factor of the invention.

1965

**C05-A02**      **Group 4a, 5a excluding C, Si, N, P, As**

**C05-A03**      **Transition metals, lanthanides and actinides general**  
The generic code C05-A03 is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.

<b>C05-A03A</b>	. <b>Manganese (Mn), iron (Fe), copper (Cu), zinc (Zn), mercury (Hg)</b>	1975	<b>C05-B01C</b>	. <b>Arsenic (As) organic</b>	1965
<b>C05-A03A1</b>	.. <b>Manganese (Mn) compounds</b>	2005	<b>C05-B01D</b>	. <b>Selenium (Se), Tellurium (Te), organic</b>	1965
<b>C05-A03A2</b>	.. <b>Iron (Fe) compounds</b>	2005	<b>C05-B01E</b>	. <b>P-C bond heterocyclic</b>	1965
<b>C05-A03A3</b>	.. <b>Copper (Cu) compounds</b>	2005	<b>C05-B01F</b>	. <b>P-C bond aromatic</b>	1965
<b>C05-A03A4</b>	.. <b>Zinc (Zn) compounds</b>	2005	<b>C05-B01G</b>	. <b>P-C bond (cyclo)aliphatic</b>	1965
<b>C05-A03A5</b>	.. <b>Mercury (Hg) compounds</b>	2005	<b>C05-B01H</b>	. <b>P-Hal bond organic</b>	1965
<b>C05-A03B</b>	. <b>Others</b>	1975	<b>C05-B01J</b>	. <b>P-N bond heterocyclic</b>	1965
<b>C05-A03B1</b>	.. <b>Titanium (Ti)</b>	2008	<b>C05-B01K</b>	. <b>P-N bond aromatic</b>	1965
<b>C05-A03B2</b>	.. <b>Silver (Ag)</b>	2008	<b>C05-B01L</b>	. <b>P-N bond (cyclo)aliphatic</b>	1965
<b>C05-A03B3</b>	.. <b>Platinum (Pt)</b>	2008	<b>C05-B01M</b>	. <b>P-O(S) bond heterocyclic</b>	1965
	<i>Previous code(s): C05-A03B</i>		<b>C05-B01N</b>	. <b>P-O(S) bond aromatic</b>	1965
<b>C05-A04</b>	<b>Radioactive elements and specific isotopes</b>		<b>C05-B01P</b>	. <b>P-O(S) bond (cyclo)aliphatic</b>	1965
<b>C05-A04A</b>	. <b>Deuterium</b>	2007	<b>C05-B02A</b>	. <b>P and inorganic P compounds general</b>	
<b>C05-A04B</b>	. <b>Tritium</b>	2007		The generic code C05-B02A is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	1965
<b>C05-A04C</b>	. <b>Carbon isotopes</b> Excludes Carbon-12	2007	<b>C05-B02A1</b>	.. <b>P acids production</b>	1975
<b>C05-A04D</b>	. <b>Iodine isotopes</b> Excludes Iodine-127	2007	<b>C05-B02A2</b>	.. <b>Ammonium salts of P acids</b> This code is used also for mixtures containing only ammonium salts of P acids.	1975
<b>C05-A04E</b>	. <b>Other radioactive isotope</b>	2007	<b>C05-B02A3</b>	.. <b>P and inorganic P compounds</b>	1975
<b>C05-A04F</b>	. <b>Other non-radioactive isotope</b>	2007	<b>C05-B02A4</b>	.. <b>Fertiliser mixt. contg. P acid (or salt) and N-source</b> For mixtures of ammonium salts of phosphoric acid only see C05-B02A2.	1975
<b>C05-A05</b>	<b>Alloys</b> May be coded in conjunction with additional codes from C05-A when the constituent metals are known.	2018	<b>C05-B02A5</b>	.. <b>Fertiliser mixt. contg. P acid (or salt) and non-N-source</b>	1975
<b>C05-A06</b>	<b>Metal chelates</b> Both the metal and the chelating agent(s) are also coded.	2019	<b>C05-B02B</b>	. <b>Arsenic (As) inorganic</b>	1965
<b>C05-B</b>	<b>LESS COMMON NON-METALS AND COMPOUNDS</b>				
<b>C05-B01A</b>	. <b>Boron (B) organic</b>	1965			
<b>C05-B01B</b>	. <b>Silicon (Si) organic</b>	1965			

<b>C05-B02C</b>	<b>. Silicon (Si), selenium (Se), tellurium (Te), boron (B) inorganic, inert gases</b>	<b>1965</b>	<b>C05-U05A</b>	<b>.. Nanotubes, nanorods, nanohorns</b>	<b>2010</b>
<b>C05-C</b>	<b>MORE COMMON NON-METALS, COMPOUNDS</b>		<b>C05-U05B</b>	<b>.. Nanofilms</b>	<b>2010</b>
<b>C05-C01</b>	<b>N (ammonia) inorganic</b> After CPI Week 197501 ammonium salts of phosphorus acids or fertiliser mixtures containing a phosphorus acid (or salts) and also ammonia (or salt thereof), have been coded C05-B02A4 respectively.	<b>1965</b>	<b>C05-U05C</b>	<b>.. Nanostructures other than those covered by C05-U05A and C05-U05B</b>	<b>2010</b>
<b>C05-C02</b>	<b>N (nitrate) inorganic</b>	<b>1965</b>	<b>C05-U06</b>	<b>. Inorganic nanostructures</b>	<b>2005</b>
<b>C05-C03</b>	<b>N (others) inorganic</b>	<b>1965</b>	<b>C05-V</b>	<b>METALLOCENES</b>	<b>2008</b>
<b>C05-C04</b>	<b>CO<sub>2</sub>, inorganic (bi)(thio)carbonates</b>	<b>1965</b>	<b>C05-V</b>	<b>Metalloenes</b> e.g. ferrocenes, titanocenes, zirconocenes. <i>Previous code(s): C05+</i>	<b>2008</b>
<b>C05-C05</b>	<b>Inorganic S acids, S oxides</b>	<b>1965</b>	<b>C05-Z</b>	<b>ORGANOMETALS</b>	<b>2015</b>
<b>C05-C06</b>	<b>Elemental C or S</b>	<b>1965</b>	<b>C05-Z</b>	<b>Organometal compounds</b> Metals/metalloids present in organic compound, excludes B, Si, As, Se, Te and P. To be searched alongside specific codes for relevant metal(s).	<b>2015</b>
<b>C05-C07</b>	<b>Inorganic compounds containing halogen</b> This code is not used for organic compounds unless a halogen is a member of a heterocyclic ring, or forms a part of an anion, and is an essential agrochemically active limiting factor of the invention.	<b>1965</b>			
<b>C05-C08</b>	<b>Others</b>	<b>1965</b>			
<b>C05-U</b>	<b>FULLERENE TYPE CAGE STRUCTURES</b>	<b>1994</b>			
<b>C05-U</b>	<b>General</b>	<b>1994</b>			
<b>C05-U01</b>	<b>. Other than carbon only</b>	<b>1994</b>			
<b>C05-U02</b>	<b>. Carbon only</b>	<b>1994</b>			
<b>C05-U03</b>	<b>. Carbon only nanotubes</b>	<b>2005</b>			
<b>C05-U04</b>	<b>. Carbon plus heteroatom nanotubes</b>	<b>2005</b>			
<b>C05-U05</b>	<b>. Other carbon containing 3-D structures</b>	<b>2005</b>			

## C06 HETEROCYCLIC FUSED RING

This section is used for fused heterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in C05. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded.

Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential fused heterocyclic ring and either an optional or a variable fused heterocyclic ring, only the essential ring is coded and neither the variable ring nor C06-H. The exception to this is in a composition with a single new/used/produced compound having one essential fused heterocyclic ring and other components with various fused heterocycles - both the specific and C06-H are then coded.

<b>C06-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>C06-A01</b>	<b>1-Benzo-(furan or pyran)</b>
<b>C06-A02</b>	<b>Others with 2 rings</b> (e.g. phenolphthalein)
<b>C06-A03</b>	<b>With more than 2 rings</b>
<b>C06-A03A</b>	<b>Taxols, taxels</b> e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton
	2006, 2010
<b>C06-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>C06-B01</b>	<b>With 2 rings</b>
<b>C06-B02</b>	<b>With more than 2 rings</b>
<b>C06-C</b>	<b>SOLE HETERO S AND S</b>
<b>C06-C</b>	<b>General</b>
<b>C06-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>C06-D01</b>	<b>Indole</b>
<b>C06-D02</b>	<b>Quinoline</b>
<b>C06-D03</b>	<b>Isoindole, isoquinoline</b>
<b>C06-D04</b>	<b>Others with 2 rings and one N</b>
<b>C06-D05</b>	<b>With 2 rings (5+6 membered) and two N</b>
<b>C06-D06</b>	<b>With 2 rings (both 6 membered) and two N</b>
<b>C06-D07</b>	<b>Others with 2 rings and two N</b>
<b>C06-D08</b>	<b>With 2 rings and 3 N</b>

<b>C06-D09</b>	<b>With 2 rings and 4 N</b>
<b>C06-D10</b>	<b>With 2 rings and &gt;4 N</b>
<b>C06-D11</b>	<b>Acridine</b>
<b>C06-D12</b>	<b>Dibenzo[b,f]azepine</b>
<b>C06-D13</b>	<b>Others with 3 rings and one N</b>
<b>C06-D14</b>	<b>Phenazine</b>
<b>C06-D15</b>	<b>Carbolines, phenanthrolines</b>
<b>C06-D16</b>	<b>Others with 3 rings and two N</b>
<b>C06-D17</b>	<b>With 3 rings and &gt;2N</b>
<b>C06-D18</b>	<b>With more than 3 rings</b>
<b>C06-E</b>	<b>SOLE HETERO S AND N</b>
<b>C06-E01</b>	<b>Benzoxazole, benzisoxazoles</b>
<b>C06-E02</b>	<b>Benzoxazines</b>
<b>C06-E03</b>	<b>Others with 2 rings</b>
<b>C06-E04</b>	<b>Phenoxazine</b>
<b>C06-E05</b>	<b>Others with more than 2 rings</b>
<b>C06-F</b>	<b>SOLE HETERO S AND N</b>
<b>C06-F01</b>	<b>Benzothiazole, benzisothiazoles</b>
<b>C06-F02</b>	<b>Benzothiazines</b>
<b>C06-F03</b>	<b>Others with 2 rings</b>
<b>C06-F04</b>	<b>Phenothiazine</b>
<b>C06-F05</b>	<b>Others with more than 2 rings</b>
<b>C06-G</b>	<b>SOLE HETERO S AND S AND N</b>
<b>C06-G</b>	<b>General</b>
<b>C06-H</b>	<b>FUSED RING, GENERAL</b> This code is used for general disclosures when either unspecified fused heterocyclic ring is present or several specific rings are present. Therefore when a specific code is searched, the corresponding generic code must also be searched.
<b>C06-H</b>	<b>General</b>
<b>C06-S</b>	<b>SPIROFUSED FUSED HETEROCYCLES</b> to be applied in conjunction with specific ring code(s) from C06.
<b>C06-S</b>	<b>Spirofused fused heterocycles</b>
	2011

## C07 HETEROCYCLICS, MONONUCLEAR

This section is used for monoheterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in C05 only. Likewise, when a fused heterocyclic ring is present, the structure is coded in C06 only. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded.

Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential monoheterocyclic ring and either an optional or a variable monoheterocyclic ring, only the essential ring is coded and neither the variable ring nor C07-H. The exception to this is in a composition with a single new/used/produced compound having one essential monoheterocyclic ring and other components with various monoheterocycles - both the specific and C07-H are then coded.

<b>C07-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>C07-A01</b>	<b>Furan excluding tetrahydrofuran</b>
<b>C07-A02</b>	<b>Tetrahydro-(furan or pyran) general</b>
<b>C07-A02A</b>	. <b>Tetrahydrofuran</b> <span style="float: right;">1994</span> <i>Previous code(s): C07-A02</i>
<b>C07-A02B</b>	. <b>Tetrahydropyran</b> <span style="float: right;">1994</span> <i>Previous code(s): C07-A02</i>
<b>C07-A03</b>	<b>Others with one O</b> Including pyran.
<b>C07-A04</b>	<b>With more than one O</b>
<b>C07-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>C07-B01</b>	<b>Thiophene</b>
<b>C07-B02</b>	<b>Others with one S</b>
<b>C07-B03</b>	<b>Others with more than one S</b>
<b>C07-C</b>	<b>SOLE HETEROS O AND S</b>
<b>C07-C</b>	<b>General</b>
<b>C07-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>C07-D01</b>	<b>With one N, 3 or 4 membered</b>
<b>C07-D02</b>	<b>Pyrrole</b> Excluding pyrrolidine.
<b>C07-D03</b>	<b>Pyrrolidine</b>
<b>C07-D04</b>	<b>Pyridine general</b> Excluding piperidine.

<b>C07-D04A</b>	. <b>(Hydro)pyridinium N(V)</b> <span style="float: right;">1986</span>
<b>C07-D04B</b>	. <b>Pyridine (optionally substituted) production</b> <span style="float: right;">1986</span>
<b>C07-D04C</b>	. <b>Pyridine (optionally substituted) use</b> <span style="float: right;">1986</span>
<b>C07-D04D</b>	. <b>Di- and tetrahydropyridine (optionally substituted)</b> <span style="float: right;">1986</span>
<b>C07-D05</b>	<b>Piperidine</b>
<b>C07-D06</b>	<b>With one N, &gt; 6-membered</b>
<b>C07-D07</b>	<b>With &gt; one N, less than 5-membered</b>
<b>C07-D08</b>	<b>Pyrazole</b>
<b>C07-D09</b>	<b>Imidazole</b>
<b>C07-D10</b>	<b>Pyr(id)azine</b> Excluding piperazine.
<b>C07-D11</b>	<b>Piperazine</b>
<b>C07-D12</b>	<b>Pyrimidine</b>
<b>C07-D13</b>	<b>Others with more than one N</b>
<b>C07-E</b>	<b>SOLE HETEROS O AND N</b>
<b>C07-E01</b>	<b>With one O and one N, &lt; 6-membered</b>
<b>C07-E02</b>	<b>Oxazines</b> Excluding morpholine.
<b>C07-E03</b>	<b>Morpholine</b>
<b>C07-E04</b>	<b>Others</b>
<b>C07-F</b>	<b>SOLE HETEROS S AND N</b>
<b>C07-F01</b>	<b>With one S and one N, &lt; 6-membered</b>
<b>C07-F02</b>	<b>Thiazines</b>
<b>C07-F03</b>	<b>Others</b>
<b>C07-G</b>	<b>SOLE HETEROS O AND S AND N</b>
<b>C07-G</b>	<b>General</b>
<b>C07-H</b>	<b>MONONUCLEAR HETEROCYCLICS GENERAL</b> This code is used for general disclosure when either unspecified monoheterocyclic ring system is present in the molecule, or several rings are present. Therefore the generic code must be searched every time when a specific code is searched.
<b>C07-H</b>	<b>Heterocyclic ring general</b>

<b>C07-H01</b>	<b>Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN</b>	1975
<b>C07-H02</b>	<b>Ring linked directly to heteroatom</b>	1975
<b>C07-H03</b>	<b>Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN</b>	1975
<b>C07-H04</b>	<b>Other rings</b>	1975
<b>C07-S</b>	<b>SPIROFUSED MONOCYCLIC HETEROCYCLES</b> To be applied in conjunction with specific ring code(s) from C07.	
<b>C07-S</b>	<b>Spirofused monocyclic heterocycles</b>	2011

## **C08 AROMATICS, POLYCARBOCYCLIC**

This section covers compounds containing more than two carbocyclic rings fused together, at least one of which is 6-membered with 3 conjugated double bonds (or quinone derivatives thereof). Mono- and bicyclo-aromatics are coded in C10.

<b>C08-A</b>	<b>At least 6 rings fused</b>	
<b>C08-B</b>	<b>Five rings fused</b>	
<b>C08-C</b>	<b>4 RINGS FUSED</b>	
<b>C08-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>	
<b>C08-C02</b>	<b>Others</b>	
<b>C08-D</b>	<b>3 RINGS FUSED</b>	
<b>C08-D01</b>	<b>6:6:7 carbon atoms per ring</b>	
<b>C08-D02</b>	<b>6:6:6 carbon atoms per ring</b>	
<b>C08-D03</b>	<b>Others</b>	
<b>C08-H</b>	<b>FUSED AROMATIC SYSTEM GENERAL</b>	2002
<b>C08-S</b>	<b>SPIROFUSED POLYCYCLIC AROMATIC RINGS</b> To be applied in conjunction with specific ring code(s) from C08.	
<b>C08-S</b>	<b>Spirofused polycyclic aromatic rings</b>	2011



## C09 ALICYCLICS, POLYCARBOCYCLIC

This section covers compounds containing more than two carbocyclic rings fused together, other than aromatics (see C08). Mono- and bicyclic compounds are coded in C10.

<b>C09-A</b>	<b>At least 6 rings fused</b>	
<b>C09-B</b>	<b>Five rings fused</b>	
<b>C09-C</b>	<b>4 RINGS FUSED</b>	
<b>C09-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>	
<b>C09-C02</b>	<b>Others</b>	
<b>C09-D</b>	<b>3 RINGS FUSED</b>	
<b>C09-D01</b>	<b>6:6:6 carbon atoms per ring</b>	
<b>C09-D02</b>	<b>Others</b>	
<b>C09-H</b>	<b>FUSED ALICYCLIC SYSTEM GENERAL</b>	2002
<b>C09-S</b>	<b>SPIROFUSED POLYCYCLIC ALICYCLIC RINGS</b> To be applied in conjunction with specific ring code(s) from C09.	
<b>C09-S</b>	<b>Spirofused polycyclic alicyclic rings</b>	2011

## C10 AROMATICS AND CYCLOALIPHATICS (MONO AND BICYCLIC ONLY), ALIPHATICS

In this section compounds are coded according to the type of functional group present. Only one code is assigned to a specific compound according to the rule of priorities: A > B > C, and 1 > 2 > 3 etc. Thus C10-A01 is the highest, and C10-J02 the lowest priority code. For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.). For all cyclic derivatives of the groups listed in section C10 see C01 to C07. For groups not listed in section C10, e.g. semicarbazone, the highest priority segment is coded, in this case as C10-A13D.

<b>C10-A</b>	<b>RARER CHEMICAL GROUPS GENERAL</b> Oxygen atoms may be replaced by S, where applicable.
<b>C10-A01</b>	<b>Sulfonium, iodonium, free radicals, carbonium, oxonium, etc.</b>
<b>C10-A02</b>	<b>Halogen bonded to Hal, N or O</b> For halides of acids other than carboxylic (C10-A25) or those containing N-X or O-X (X = halogen) bond (C10-A02) the parent acid is coded. For example a sulfenyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.
<b>C10-A03</b>	<b>Nitrogen oxide, nitroso</b> Includes nitramines
<b>C10-A04</b>	<b>Peroxide, polysulfide</b> Also includes hydroperoxides.
<b>C10-A05</b>	<b>Nitrate, nitrite</b>
<b>C10-A06</b>	<b>Quinone</b> Including all derivatives except those with higher priority.
<b>C10-A07</b>	<b>Sugars (general)</b> Only 4 or more carbon monosaccharides with a free keto or aldehyde group together with their oxidised, reduced and substituted derivatives code here. Sugars in which at least one of the aldehyde / keto groups have been converted into an acetal / ketal (i.e. exist in cyclic form) code in C07- A02.

<b>C10-A07A</b>	<ul style="list-style-type: none"> <li>• <b>Unmodified sugars</b> Includes ethers and esters thereof. 7 or more carbon sugars are coded C10-A07E.</li> </ul> <p style="text-align: right;"><b>2005</b></p>	<b>C10-A07E</b>	<ul style="list-style-type: none"> <li>• <b>Other sugar derivatives</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemiacetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by atoms other than H, or N. Additionally all 7 or more carbon non-cyclic monosaccharides code here. If the sugar is an oxidised sugar it additionally codes C10-A07C. If the sugar is a reduced sugar it additionally codes C10-A07B.</li> </ul> <p style="text-align: right;"><b>2005</b></p>
<b>C10-A07B</b>	<ul style="list-style-type: none"> <li>• <b>Sugar alcohols</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code C10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar alcohols) additionally code C10-A07E. Inositol is coded C10-E04A.</li> </ul> <p style="text-align: right;"><b>2005</b></p>	<b>C10-A08</b>	<b>Amide of sulfur acid</b>
<b>C10-A07C</b>	<ul style="list-style-type: none"> <li>• <b>Sugar acids</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code C10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar acids) additionally code C10-A07E. Uronic acids which contain a free aldehyde or keto group (even if represented as a cyclic hemiacetal in the source material) code here but those in which the hemiacetal OH has been converted into an ether or ester code in C07-A02. Lactones of sugar alcohols code in the C07-A section.</li> </ul> <p style="text-align: right;"><b>2005</b></p>	<b>C10-A09A</b>	<ul style="list-style-type: none"> <li>• <b>(Thio)Sulfuric(ous) acid</b> Including all derivatives except those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
<b>C10-A07D</b>	<ul style="list-style-type: none"> <li>• <b>Sugar amines</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemiacetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by nitrogen. If the sugar contains 7 or more carbons it additionally codes C10-A07E. If the sugar is an oxidised sugar it additionally codes C10-A07C. If the sugar is a reduced sugar it additionally codes C10-A07B.</li> </ul> <p style="text-align: right;"><b>2005</b></p>	<b>C10-A09B</b>	<ul style="list-style-type: none"> <li>• <b>(Thio)Sulfonic acid general</b> Including all derivatives except for those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A09C</b>	<ul style="list-style-type: none"> <li>• <b>Other S acids</b> Including all derivatives except those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A10</b>	<b>Sulfone, sulfoxide</b>
		<b>C10-A11A</b>	<ul style="list-style-type: none"> <li>• <b>Thiocarbonic acid</b> Including all derivatives except those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A11B</b>	<ul style="list-style-type: none"> <li>• <b>Carbonic acid</b> Includes haloformates.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A12A</b>	<ul style="list-style-type: none"> <li>• <b>Dithiocarbamic acid</b> Including all derivatives except those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A12B</b>	<ul style="list-style-type: none"> <li>• <b>Monothiocarbamic acid</b> Including all derivatives except those with higher priority.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A12C</b>	<ul style="list-style-type: none"> <li>• <b>Carbamic acid</b> Including all derivatives except those with higher priorities.</li> </ul> <p style="text-align: right;"><b>1965</b></p>
		<b>C10-A13A</b>	<ul style="list-style-type: none"> <li>• <b>(Iso)thiourea</b></li> </ul> <p style="text-align: right;"><b>1965</b></p>

<b>C10-A13B</b>	. <b>(Iso)urea general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic code must also be searched. 1965	<b>C10-B02</b>	<b>Amino-acid, -ester or -amide general</b> Oxygen atoms in the acid/ester/amide portion may be replaced by S where applicable. 1986
<b>C10-A13C</b>	. <b>Unsubstituted urea</b> 1975	<b>C10-B02A</b>	. <b>Amino-acid, -ester or -amide (amine aromatic)</b> 1965
<b>C10-A13D</b>	. <b>Other (iso)urea compounds</b> 1975	<b>C10-B02B</b>	. <b>Amino-acid, -ester or amide (amine not aromatic) general</b> 1965
<b>C10-A14</b>	<b>(Iso)cyanate, thiocyanide</b>	<b>C10-B02C</b>	. <b>Mixtures containing at least 3 naturally occurring amino acids</b> 1975
<b>C10-A15</b>	<b>(Iso)cyanide</b>	<b>C10-B02D</b>	. <b>Sulfur-containing amino acids</b> Including amides and esters of the acid group(s). 1975
<b>C10-A16</b>	<b>Azide, azo diazo(nium)</b>	<b>C10-B02E</b>	. <b>Ring-containing amino acid with free acid group or salt</b> 1975
<b>C10-A17</b>	<b>Biguanide, guanidine, amidine</b>	<b>C10-B02F</b>	. <b>Ring-containing amino amide</b> 1975
<b>C10-A18</b>	<b>Hydroxylamine</b> Hydroxylamine itself is coded C05-C03.	<b>C10-B02G</b>	. <b>Ring-containing amino ester</b> 1975
<b>C10-A19</b>	<b>Hydrazine</b> Hydrazine itself is coded C05-C03.	<b>C10-B02H</b>	. <b>Optionally esterified or etherified hydroxy amino acids</b> Including amides and esters of the acid group(s). 1975
<b>C10-A20</b>	<b>Imine</b>	<b>C10-B02J</b>	. <b>Other amino acids</b> Including amides and esters of the acid group(s). 1975
<b>C10-A21</b>	<b>Quaternary ammonium (bis or poly)</b> When a patent claims amines and their quaternary ammonium salts, only the amines are coded. Two searches must be made in order to obtain all relevant quaternary ammonium compounds.	<b>C10-B03</b>	<b>Amino-phenol,-alcohol or -ether general</b> Oxygen atoms may be replaced by S, where applicable. 1986
<b>C10-A22</b>	<b>Quaternary ammonium (mono)</b>	<b>C10-B03A</b>	. <b>Amino-phenol, -alcohol or -ether (amine aromatic)</b> 1971
<b>C10-A23</b>	<b>Acetal, ketal</b>	<b>C10-B03B</b>	. <b>Amino-phenol, -alcohol or -ether (amine not aromatic)</b> 1971
<b>C10-A24</b>	<b>Imide</b>	<b>C10-B04</b>	<b>Amine mono, general</b> 1986
<b>C10-A25</b>	<b>Acid anhydride, halide (carboxylic only)</b> For halides of acids other than carboxylic (C10-A25) or those containing N-X or O-X (X = halogen) bond (C10-A02) the parent acid is coded. For example a sulfonyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.	<b>C10-B04A</b>	. <b>Other aromatic amines</b> 1971
<b>C10-B</b>	<b>AMINES</b>	<b>C10-B04B</b>	. <b>Other non-aromatic amines</b> 1971
<b>C10-B01</b>	<b>Polyamine general</b> 1986	<b>C10-C</b>	<b>CARBOXYLIC ACIDS</b>
<b>C10-B01A</b>	. <b>Polyamines, at least 1 amine aromatic</b> 1965	<b>C10-C01</b>	<b>Thiocarboxylic acid</b>
<b>C10-B01B</b>	. <b>Polyamines with no amine aromatic</b> 1965	<b>C10-C02</b>	<b>Polycarboxylic acid</b>

<b>C10-C03</b>	<b>Carboxylic acid and phenol present</b> Or phenolic ester or ether. Oxygen atoms may be replaced by S.	<b>C10-D02</b>	<b>Carboxylic amide, thio</b>
<b>C10-C04</b>	<b>Other carboxylic acids general</b>	<b>C10-D03</b>	<b>Carboxylic amides</b>
<b>C10-C04A</b>	. <b>Carboxylic acid and cycloaliphatic system present</b> 1975	<b>C10-E</b>	<b>HYDROXY COMPOUNDS</b> Oxygen atoms may be replaced by S, where applicable
<b>C10-C04B</b>	. <b>Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present</b> Including esters and ethers (of hydroxy) and thio derivatives. 1975	<b>C10-E01</b>	<b>Thiophenols</b>
<b>C10-C04C</b>	. <b>Other carboxylic acid and carbocyclic aromatic ring system present</b> 1975	<b>C10-E02</b>	<b>Phenols</b>
<b>C10-C04D</b>	. <b>Acyclic hydroxy</b> Including acyclic ether (of hydroxy) and thio derivatives. 1975	<b>C10-E03</b>	<b>Thioalcohols</b>
<b>C10-C04E</b>	. <b>General acyclic monocarboxylic acid</b> General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives). 1975	<b>C10-E04</b>	<b>Alcohols general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic codes must also be searched.
<b>C10-C04E1</b>	.. <b>Substituted acyclic monocarboxylic acid</b> 2006	<b>C10-E04A</b>	. <b>Alcohols containing hydroxy attached directly to alicyclic ring</b> Including inositol. 1975
<b>C10-C04E2</b>	.. <b>Polyunsaturated fatty acid</b> 2006	<b>C10-E04B</b>	. <b>Alcohols containing carbocyclic ring(s)</b> 1975
<b>C10-C04E3</b>	.. <b>Monounsaturated fatty acid</b> 2006	<b>C10-E04C</b>	. <b>Polyalcohols and ethers and esters thereof</b> 1975
<b>C10-C04E4</b>	.. <b>Other unsaturated monocarboxylic acid</b> 2006	<b>C10-E04D</b>	. <b>Other alcohols</b> 1975
<b>C10-C04E5</b>	.. <b>Saturated fatty acid</b> 2006	<b>C10-F</b>	<b>KETONES</b>
<b>C10-C04E6</b>	.. <b>Other saturated monocarboxylic acid</b> 2006	<b>C10-F01</b>	<b>Thioketones</b>
<b>C10-D</b>	<b>ALDEHYDES AND CARBOXYLIC AMIDES</b> Oxygen atoms may be replaced by S, where applicable. These generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, corresponding generic codes must also be searched.	<b>C10-F02</b>	<b>Ketones</b>
<b>C10-D01</b>	<b>Aldehydes</b>	<b>C10-G</b>	<b>CARBOXYLIC ESTERS AND NITRO</b> Oxygen atoms may be replaced by S, where applicable.
		<b>C10-G01</b>	<b>Thiocarboxylic esters</b>
		<b>C10-G02</b>	<b>Carboxylic esters</b>
		<b>C10-G03</b>	<b>Nitro</b>
		<b>C10-H</b>	<b>ETHERS AND HALOGENS</b> Oxygen atoms may be replaced by S, where applicable.
		<b>C10-H01</b>	<b>Ethers</b>
		<b>C10-H02</b>	<b>Halogen general</b> 1986
		<b>C10-H02A</b>	. <b>F linked to aromatic ring</b> 1965
		<b>C10-H02B</b>	. <b>F not linked to aromatic ring</b> 1965
		<b>C10-H02C</b>	. <b>Br or I linked to aromatic ring</b> 1965

<b>C10-H02D</b>	. Br or I not linked to aromatic ring	1965
<b>C10-H02E</b>	. Cl linked to aromatic ring	1965
<b>C10-H02F</b>	. Cl not linked to aromatic ring	1965
<b>C10-J</b>	<b>HYDROCARBONS</b>	
<b>C10-J01</b>	-C≡C- may form part of alicyclic ring	1965
<b>C10-J02</b>	Others	1965
<b>C10-J02A</b>	. Terpenes or terpenoids General terpenes or terpenoids of purely hydrocarbon content.	2013

## C11 PROCESSES, APPARATUS

C11 codes are only used when the inventive feature of the patent cannot be completely described in terms of chemical descriptors in C01 to C10. Test **methods** must be claimed for C11 codes to be applied, i.e. if a compound can be used as a reagent but the test is not claimed, only C12-K04+ codes are applied.

<b>C11-A</b>	<b>FERMENTATION GENERAL</b> Includes fermentation process where microorganisms are not specified	2012
<b>C11-A01</b>	<b>Using microorganisms</b>	1994
<b>C11-A01A</b>	. Using bacteria	2006
<b>C11-A01B</b>	. Using viruses	2006
<b>C11-A01C</b>	. Using fungi	2006
<b>C11-A02</b>	<b>Using enzymes</b>	1994
<b>C11-A02A</b>	. Using oxidoreductases general	2006
<b>C11-A02A1</b>	.. Using oxidases	2006
<b>C11-A02A2</b>	.. Using peroxidases	2006
<b>C11-A02A3</b>	.. Using oxygenases	2006
<b>C11-A02A4</b>	.. Using dehydrogenases, reductases	2006
<b>C11-A02A5</b>	.. Using lipxygenases	2006
<b>C11-A02B</b>	. Using transferases general	2006
<b>C11-A02B1</b>	.. Using DNA/RNA polymerases	2006
<b>C11-A02B2</b>	.. Using reverse transcriptases	2006
<b>C11-A02B3</b>	.. Using kinases	2006
<b>C11-A02C</b>	. Using hydrolases general	2006
<b>C11-A02C1</b>	.. Using esterases	2006
<b>C11-A02C2</b>	.. Using glycosidases	2006

<b>C11-A02C3</b>	<b>.. Using proteases/peptide hydrolases</b>	<b>2006</b>	<b>C11-B03C</b>	<b>. Method or device for extraction of active substances from plant</b>	Patents dealing with extraction of active agents from plants.	<b>2016</b>
<b>C11-A02D</b>	<b>. Using lyases</b>	<b>2006</b>	<b>C11-B03D</b>	<b>. Method or device for extraction of active substance from animals, arthropods</b>	Extraction of active substance from animals, arthropods, etc.	<b>2021</b>
<b>C11-A02E</b>	<b>. Using isomerases</b>	<b>2006</b>	<b>C11-B04</b>	<b>Method or device for removal processes</b>	A means of destroying or collecting for subsequent safe disposal of harmful / noxious substances. Substance removed and removing agent are additionally coded, even if they only appear in an example.	<b>2006</b>
<b>C11-A02F</b>	<b>. Using ligases</b>	<b>2006</b>	<b>C11-B05</b>	<b>Method or device for preservation and/or storage</b>	Includes devices as well as methods for preservation and storage relating to preservation. General storage containers are coded in C11-C06.	<b>2009</b>
<b>C11-A03</b>	<b>Using algae</b>	<b>2010</b>	<b>C11-B06</b>	<b>Method or device for cleaning and/or sterilization</b>	Method device for cleaning and/or sterilization, such as for medical equipment.	<b>2010</b>
<b>C11-A04</b>	<b>Fermentation apparatus</b> Apparatus or device for culturing microorganisms e.g. culturing device of alimentary canal nematodes.	<b>2012</b>	<b>C11-C</b>	<b>GENERAL PROCESS, APPARATUS</b>		
<b>C11-A04A</b>	<b>. Cell/tissue culture apparatus</b> Method and apparatus for culturing and processing of biological cells excluding tissue engineering (which codes 11-C04G). E.g. animal cells and other microbial cells.	<b>2014</b>	<b>C11-C01</b>	<b>General chemical processes</b>		<b>1971</b>
<b>C11-B</b>	<b>EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION</b> If part of a diagnostic process see C11-C08D.		<b>C11-C01A</b>	<b>. Combinatorial chemistry</b>		<b>2002</b>
<b>C11-B01</b>	<b>Separation of stereoisomers by a biological method</b>	<b>2006</b>	<b>C11-C01A1</b>	<b>.. Library synthesis</b>	Used when the patent is describing a technique for producing, rather than using a combinatorial library.	<b>2005</b>
<b>C11-B02</b>	<b>Separation of stereoisomers by other method</b>	<b>2006</b>	<b>C11-C01A2</b>	<b>.. Liquid-phase synthesis</b>	Process in which the chemical building blocks are present in solution.	<b>2005</b>
<b>C11-B03</b>	<b>Other separations</b> also for separation of E,Z and cis/trans isomers.	<b>2006</b>	<b>C11-C01A3</b>	<b>.. Solid-phase synthesis</b>	Process in which the chemical building blocks are bound to a polymer.	<b>2005</b>
<b>C11-B03A</b>	<b>. Method or device for separation of biological molecules</b> Includes methods or devices for extraction of biological substances such as proteins and nucleic acids.	<b>2012</b>				
<b>C11-B03B</b>	<b>. Device/methods for concentrating of molecules</b> Includes techniques involving concentrating procedure, only for use when the Novelty of the invention.	<b>2013</b>				

<b>C11-C01A4</b>	<ul style="list-style-type: none"> <li><b>.. Parallel synthesis</b> Process in which each separate starting material is present in a different well in a microarray and the reagent is added simultaneously to all of the wells with the results that each product is present in a different well.</li> </ul>	<b>C11-C02D</b>	<ul style="list-style-type: none"> <li><b>. Syringe/Injector disposal apparatus</b> Covers disposal of all injectors, not just syringes. Also includes syringe needle removing devices and sharps container.</li> </ul>	<b>2005</b>	<b>2006</b>
<b>C11-C01A5</b>	<ul style="list-style-type: none"> <li><b>.. High-volume synthesis</b> Process in which very large numbers of compounds are produced from a large variety of starting materials.</li> </ul>	<b>C11-C03</b>	<ul style="list-style-type: none"> <li><b>Dispensers</b> Includes fertilizer dispensers.</li> </ul>	<b>2005</b>	<b>1971</b>
<b>C11-C01B</b>	<ul style="list-style-type: none"> <li><b>. Apparatus for combinatorial chemistry</b></li> </ul>	<b>C11-C04</b>	<ul style="list-style-type: none"> <li><b>Machine/device/method for use in/on living body, general</b> From 2010, the scope of this code has been extended to cover methods used for therapeutic purposes on animal or human body in addition to machines and devices for the same. Includes both method and devices used for therapeutic purposes on animal or human body. This code can be applied to condoms, external splints, infra-red heat massagers etc, however such items should either contain, be coated with or be used in conjunction with drugs in order for them to be coded in B and/or C.</li> </ul>	<b>2002</b>	<b>1971</b>
<b>C11-C01C</b>	<ul style="list-style-type: none"> <li><b>. Other processes</b></li> </ul>	<b>C11-C04A</b>	<ul style="list-style-type: none"> <li><b>. Implant</b></li> </ul>	<b>2002</b>	<b>1977</b>
<b>C11-C01C1</b>	<ul style="list-style-type: none"> <li><b>.. Stereo-specific reactions</b></li> </ul>	<b>C11-C04A1</b>	<ul style="list-style-type: none"> <li><b>.. Stent</b></li> </ul>	<b>2006</b>	<b>2006</b>
<b>C11-C01C2</b>	<ul style="list-style-type: none"> <li><b>.. Stereo-selective reactions</b></li> </ul>	<b>C11-C04B</b>	<ul style="list-style-type: none"> <li><b>. Catheter</b> Includes cannula.</li> </ul>	<b>2006</b>	<b>1977</b>
<b>C11-C01C3</b>	<ul style="list-style-type: none"> <li><b>.. Racemisation</b></li> </ul>	<b>C11-C04C</b>	<ul style="list-style-type: none"> <li><b>. Injection gun, general</b></li> </ul>	<b>2012</b>	<b>2005</b>
<b>C11-C01D</b>	<ul style="list-style-type: none"> <li><b>. Stereochemistry</b> Includes geometrical isomers.</li> </ul>	<b>C11-C04D</b>	<ul style="list-style-type: none"> <li><b>. Applicator</b> Includes spraying apparatus for agrochemicals.</li> </ul>	<b>2006</b>	<b>2005</b>
<b>C11-C01E</b>	<ul style="list-style-type: none"> <li><b>. Amplification apparatus/process for production</b> From 2011, the scope of this code has been extended to cover amplification apparatus for production in addition to processes for the same.</li> </ul> <p style="margin-left: 20px;"><i>Previous code(s): C11-A02B1</i></p>	<b>C11-C04E</b>	<ul style="list-style-type: none"> <li><b>. Needle-free injector</b> A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures.</li> </ul>	<b>2007</b>	<b>2005</b>
<b>C11-C02</b>	<ul style="list-style-type: none"> <li><b>Syringes</b> Also includes filling/loading of syringes.</li> </ul>	<b>C11-C04F</b>	<ul style="list-style-type: none"> <li><b>. Artificial organs</b> Including heart-lung machines, kidney dialysis equipment, pacemakers and artificial livers and skin. Includes production of these organs. Not to be confused with prostheses (coded C12-M17) or implants (coded C11-C04A).</li> </ul>	<b>1971</b>	<b>2005</b>
<b>C11-C02A</b>	<ul style="list-style-type: none"> <li><b>. Hypodermic syringes</b> Includes multi-use as well as single-use and moulded disposable syringes.</li> </ul>			<b>2005</b>	<b>2005</b>
<b>C11-C02B</b>	<ul style="list-style-type: none"> <li><b>. Needles</b> Should cover all needles, not just those for syringes. Not for microneedles - these are coded under C12-M02F instead.</li> </ul>			<b>2005</b>	<b>2005</b>
<b>C11-C02C</b>	<ul style="list-style-type: none"> <li><b>. Syringe components</b></li> </ul>			<b>2006</b>	<b>2005</b>

<b>C11-C04G</b>	<ul style="list-style-type: none"> <li>. <b>Tissue engineering technologies</b> Includes wound care technologies (e.g. bone cement), stem cell therapeutic applications, and tissue and organ production (e.g. by inkjet printers and tissue scaffolds). 2007</li> </ul>	<b>C11-C06C</b>	<ul style="list-style-type: none"> <li>. <b>Peripheral devices for therapeutic regimens</b> Includes stands for e.g. infusion devices, tamper alarms. 2010</li> </ul>
<b>C11-C04H</b>	<ul style="list-style-type: none"> <li>. <b>Adaptors, fixing devices, seals</b> used for e.g. attaching tubes to syringes, attaching catheter tubes to supports. 2009</li> </ul>	<b>C11-C06D</b>	<ul style="list-style-type: none"> <li>. <b>Labels and labelling devices</b> 2011</li> </ul>
<b>C11-C04J</b>	<ul style="list-style-type: none"> <li>. <b>Cements, putties</b> Includes bone cement etc. 2010</li> </ul>	<b>C11-C06E</b>	<ul style="list-style-type: none"> <li>. <b>Temperature regulation apparatus</b> 2012</li> </ul>
<b>C11-C04K</b>	<ul style="list-style-type: none"> <li>. <b>Bioelectronics and neurostimulation</b> Includes electroceuticals, may also be searched with C14-S27. 2015</li> </ul>	<b>C11-C06Z</b>	<ul style="list-style-type: none"> <li>. <b>Safety and tamper-proof devices/methods</b> Applied with one or more other codes from C11-C02, C11-C03, C11-C04 and/or C11-C06. Includes methods and devices to improve patient safety e.g. alarms for incorrect operation of dispensers. Safety caps, previously coded only in C11-C06A, also now code here. 2017</li> </ul>
<b>C11-C04Z</b>	<ul style="list-style-type: none"> <li>. <b>Non-pharmaceutical alternative therapies</b> Includes therapies such as music therapy, laughter therapy, heat therapy, acupuncture and reiki. Does not include electrical or electromagnetic therapies which are coded in C14-S27 with additionally C11-C04 if the apparatus is also claimed. 2012</li> </ul>	<b>C11-C07</b>	<p><b>Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general</b> C11-C07+ and C11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention. 1975</p>
<b>C11-C05</b>	<p><b>Process/ apparatus for producing pharmaceutical, veterinary or agricultural composition</b> Includes tableting machines. Also covers any process for producing drugs or their intermediate products e.g. drug mixer, device for drying a drug, device for crushing a drug. 1971</p>	<b>C11-C07A</b>	<ul style="list-style-type: none"> <li>. <b>Antigen-antibody reaction general</b> Excluding C11-A. 1977</li> </ul>
<b>C11-C06</b>	<p><b>Containers, packing, preserving apparatus, storage tanks, transporting apparatus general</b> 1975</p>	<b>C11-C07A1</b>	<ul style="list-style-type: none"> <li>.. <b>Production of antigen for test</b> 1986</li> </ul>
<b>C11-C06A</b>	<ul style="list-style-type: none"> <li>. <b>Closures, caps</b> 1977</li> </ul>	<b>C11-C07A2</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to colour tracer</b> 1986</li> </ul>
<b>C11-C06B</b>	<ul style="list-style-type: none"> <li>. <b>Formulation counting/measuring devices</b> e.g. tablet counting machines, cylinders for measuring solutions, weighing devices. 2009</li> </ul>	<b>C11-C07A3</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to radioactive tracer</b> 1986</li> </ul>
		<b>C11-C07A4</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to enzyme tracer</b> 1986</li> </ul>
		<b>C11-C07A5</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to fluorescent or chemiluminescent tracer</b> 1986</li> </ul>
		<b>C11-C07A6</b>	<ul style="list-style-type: none"> <li>.. <b>Antigen or antibody bound to other type of carrier</b> e.g. erythrocytes, glass, polymer. 1986</li> </ul>



<b>C11-C07A7</b>	<b>.. Apparatus for antigen-antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention</b>	1986	<b>C11-C08C2</b>	<b>.. Manipulation of samples</b> Includes methods or devices for treating biopsy or smear samples to make them easier to view.	2014
<b>C11-C07B</b>	<b>. Colorimetric tests</b> Including fluorescence (excluding B11-C07A).	1977	<b>C11-C08D</b>	<b>. Separation methods of testing and diagnosis general</b> Other than C11-B.	1986
<b>C11-C07B1</b>	<b>.. Colorimetric (detection of colour change in a reagent)</b>	1986	<b>C11-C08D1</b>	<b>.. Electrophoresis</b>	1986
<b>C11-C07B2</b>	<b>.. Spectrophotometric</b>	1986	<b>C11-C08D2</b>	<b>.. Chromatography, ion exchange</b> Including High Performance Liquid Chromatography (HPLC).	1986
<b>C11-C07B3</b>	<b>.. Fluorescence</b>	1986	<b>C11-C08D3</b>	<b>.. Filtration, centrifugation, sedimentation, dialysis</b>	1986
<b>C11-C07B4</b>	<b>.. Chemiluminescence</b>	1986	<b>C11-C08E</b>	<b>. Biological procedures for testing general</b> Other than C11-A and C11-C07A.	1986
<b>C11-C07B5</b>	<b>.. Radioactive tracer other than C11-C07A3</b>	1986	<b>C11-C08E1</b>	<b>.. Fermentation of microorganisms, cell or tissue culture</b> e.g. testing antibiotics by cultivation of microorganisms.	1986
<b>C11-C07B6</b>	<b>.. Reflectance, light scattering etc.</b>	2005	<b>C11-C08E2</b>	<b>.. Noting physiological responses in animals or plants/modelling diseases</b> e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature.	1986
<b>C11-C07B7</b>	<b>.. Apparatus for colorimetric analysis where the apparatus is the novelty of the invention</b>	2009	<b>C11-C08E3</b>	<b>.. Enzyme processes other than polarography or enzyme labelling</b> Excluding C11-C07A, but including the use of restriction enzymes (endonucleases) and the polymerase chain reaction (PCR). For more specifically described PCR methodologies, up to three additional codes from subsection C11-C08N may be appended (from update 202201).	1986
<b>C11-C08</b>	<b>Other methods/apparatus for testing/detection</b> Including new drug screening systems.	1975	<b>C11-C08E4</b>	<b>.. DNA sequencing methods</b> Other than those involving enzymes.	1994-2018
<b>C11-C08A</b>	<b>. NMR, mass spectroscopy</b> Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under C11-C08G2.	1986		<i>Previous code(s): C11-C08, C11-C08E3</i>	
<b>C11-C08B</b>	<b>. Potentiometry, polarography</b>	1986		<i>Now coded as: C11-C08F7A</i>	
<b>C11-C08C</b>	<b>. Sampling device and sampling method for testing</b> From 2010, the scope of this code has been extended to cover methods of sampling in addition to devices for the same. Includes devices and method of sampling, wherein the method of collecting samples is for test and detection purposes.	1986			
<b>C11-C08C1</b>	<b>.. Microfluidic devices</b>	2007			

<b>C11-C08E5</b>	<p><b>.. Nucleic acid hybridisation test methods, use of nucleic acid probes</b></p> <p style="text-align: right;"><b>1994-2018</b></p> <p><i>Previous code(s): C11-C08, C11-C08E3</i></p> <p><i>Now coded as: C11-C08F8</i></p>	<b>C11-C08F8</b>	<p><b>.. Nucleic acid hybridization test methods, use of nucleic acid probes</b></p> <p style="text-align: right;"><b>2019</b></p> <p><i>Previous code(s): C11-C08, C11-C08E5</i></p>
<b>C11-C08E6</b>	<p><b>.. Microarrays and biochips</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C11-C08G</b>	<p><b>. Structural conformation analyzing method for biomolecules</b></p> <p>Prior to 2011, this code covered structural gene/protein analysis only. From 2011, the scope of this code has been extended to cover structural analysis of all biomolecules. Also includes structural analysis of polysaccharide, nucleic acid, lipid, glycoprotein, glycolipid and RNA molecule.</p> <p style="text-align: right;"><b>2002</b></p>
<b>C11-C08E7</b>	<p><b>.. Agonist/antagonist identification</b></p> <p style="text-align: right;"><b>2005</b></p>	<b>C11-C08G1</b>	<p><b>.. X-ray crystallography</b></p> <p style="text-align: right;"><b>2002</b></p>
<b>C11-C08E8</b>	<p><b>.. Biosensor</b></p> <p>To be searched alongside the physicochemical and/or biological parts where present.</p> <p style="text-align: right;"><b>2016</b></p>	<b>C11-C08G2</b>	<p><b>.. NMR spectroscopy</b></p> <p style="text-align: right;"><b>2002</b></p>
<b>C11-C08E9</b>	<p><b>.. Protein sequencing method</b></p> <p>Code retired 2018. Now coded C11-C08F7B. All document records from 2018 containing this code will be changed to reflect the updated hierarchy and C11-C08E9 will no longer be searchable.</p> <p style="text-align: right;"><b>2018-2018</b></p>	<b>C11-C08G3</b>	<p><b>.. Electron microscopy</b></p> <p style="text-align: right;"><b>2002</b></p>
<b>C11-C08F</b>	<p><b>. Protein/Gene analysis general</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C11-C08H</b>	<p><b>. Drug design by computer modelling</b></p> <p style="text-align: right;"><b>2002</b></p>
<b>C11-C08F1</b>	<p><b>.. Computational genomics</b></p> <p style="text-align: right;"><b>2002-2018</b></p> <p><i>Now coded as: C11-C11C1</i></p>	<b>C11-C08J</b>	<p><b>. Microscopy/ optical processes &amp; apparatus</b></p> <p style="text-align: right;"><b>2005</b></p>
<b>C11-C08F2</b>	<p><b>.. Experimental genomics</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C11-C08K</b>	<p><b>. Other analytical apparatus where the apparatus is the novelty of the invention</b></p> <p>Novel apparatus for colorimetric analysis codes as C11-C07B7.</p> <p style="text-align: right;"><b>2009</b></p>
<b>C11-C08F3</b>	<p><b>.. Computational proteomics</b></p> <p style="text-align: right;"><b>2002-2018</b></p> <p><i>Now coded as: C11-C11C2</i></p>	<b>C11-C08L</b>	<p><b>. Acoustics</b></p> <p>Includes ultrasound, infrasound and vibration.</p> <p style="text-align: right;"><b>2016</b></p>
<b>C11-C08F4</b>	<p><b>.. Experimental proteomics</b></p> <p style="text-align: right;"><b>2002</b></p>	<b>C11-C08M</b>	<p><b>. Calorimetry</b></p> <p style="text-align: right;"><b>2020</b></p>
<b>C11-C08F5</b>	<p><b>.. Functional genomics</b></p> <p style="text-align: right;"><b>2009</b></p>	<b>C11-C08N</b>	<p><b>. Biological testing methodologies</b></p> <p>This code is a section heading only and is not applied to patents. See the relevant C11-C08N sub-codes instead.</p> <p style="text-align: right;"><b>2022</b></p>
<b>C11-C08F6</b>	<p><b>.. Functional proteomics</b></p> <p style="text-align: right;"><b>2009</b></p>		
<b>C11-C08F7</b>	<p><b>.. Sequencing methods general</b></p> <p style="text-align: right;"><b>2019</b></p>		
<b>C11-C08F7A</b>	<p><b>... DNA/RNA sequencing methods</b></p> <p style="text-align: right;"><b>2019</b></p>		
<b>C11-C08F7B</b>	<p><b>... Protein sequencing methods</b></p> <p>Replaces the deleted code C11-C08E9. All affected document records from 2018 will be changed to reflect the updated hierarchy and C11-C08E9 will no longer be searchable.</p> <p style="text-align: right;"><b>2019</b></p>		

<b>C11-C08N1</b>	<b>.. Thermocycling amplification methods</b> For three or more specific sub-codes or for general references to thermocycling methods, only the parent code C11-C08N1 is applied. General references to PCR are searched under C11-C08E3.	<b>2022</b>	<b>C11-C08N2C</b>	<b>... Strand displacement amplification (SDA)</b>	<b>2022</b>
<b>C11-C08N1A</b>	<b>... Multiplex PCR</b>	<b>2022</b>	<b>C11-C08N2D</b>	<b>... Nucleic acid sequence based amplification (NASBA)</b>	<b>2022</b>
<b>C11-C08N1B</b>	<b>... Nested PCR</b>	<b>2022</b>	<b>C11-C08N2E</b>	<b>... Rolling circle amplification (RCA)</b>	<b>2022</b>
<b>C11-C08N1C</b>	<b>... Colony PCR</b>	<b>2022</b>	<b>C11-C08N2F</b>	<b>... Multiple displacement amplification (MDA)</b> Includes Whole Genome Amplification (WGA), Multiple Annealing and Looping Based Amplification Cycles (MALBAC).	<b>2022</b>
<b>C11-C08N1D</b>	<b>... Random amplification polymorphism DNA PCR (RAPD-PCR)</b>	<b>2022</b>	<b>C11-C08N2G</b>	<b>... Helicase dependent amplification (HAD)</b>	<b>2022</b>
<b>C11-C08N1E</b>	<b>... Simple sequence repeat-anchored PCR (SSR-PCR)</b>	<b>2022</b>	<b>C11-C08N2H</b>	<b>... Ramification amplification method (RAM)</b>	<b>2022</b>
<b>C11-C08N1F</b>	<b>... Amplified fragment length polymorphism PCR (AFLP-PCR)</b>	<b>2022</b>	<b>C11-C08N2J</b>	<b>... Recombinase polymerase amplification (RPA)</b>	<b>2022</b>
<b>C11-C08N1G</b>	<b>... Amplification of refractory mutation system PCR (ARMS-PCR)</b>	<b>2022</b>	<b>C11-C08N3</b>	<b>.. Real-time analysis</b> To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	<b>2022</b>
<b>C11-C08N1H</b>	<b>... Restriction fragment length polymorphism (RFLP)</b>	<b>2022</b>	<b>C11-C08N4</b>	<b>.. Rapid analysis</b> To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	<b>2022</b>
<b>C11-C08N1J</b>	<b>... Ligase chain reaction (LCR)</b>	<b>2022</b>	<b>C11-C09</b>	<b>Other processes, appts.</b> Processes and apparatus not covered elsewhere in section 11.	<b>1975</b>
<b>C11-C08N1K</b>	<b>... Kompetitive allele specific PCR (KASP)</b> Includes allele-specific polymerase chain reaction (ASP-PCR). Code additionally fluorescence (C11-C07B3) for PCR.	<b>2024</b>	<b>C11-C09A</b>	<b>. Processes</b>	<b>2006</b>
<b>C11-C08N2</b>	<b>.. Isothermal amplification methods, general and other</b> For three or more specific sub-codes or general references to isothermal methods, only the parent code C11-C08N2 is applied.	<b>2022</b>	<b>C11-C09B</b>	<b>. Apparatus</b>	<b>2006</b>
<b>C11-C08N2A</b>	<b>... Loop mediated isothermal amplification (LAMP)</b> Also includes RT-LAMP.	<b>2022</b>	<b>C11-C10</b>	<b>Screening general</b>	<b>2002</b>
<b>C11-C08N2B</b>	<b>... Self-sustained sequence replication (3SR)</b>	<b>2022</b>	<b>C11-C10A</b>	<b>. High throughput screening</b>	<b>2002</b>

<b>C11-C10B</b>	<ul style="list-style-type: none"> <li>• <b>High content screening</b> Whole cell analysis used in drug screening. Differs from high-throughput screens that are usually homogenous in-vitro assays. Includes the analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent-based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening.</li> </ul>	<b>C11-C13</b>	<p><b>Particle engineering</b> Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.</p>
	2005		2005
<b>C11-C10C</b>	<ul style="list-style-type: none"> <li>• <b>Protein/gene libraries</b> Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.</li> </ul>	<b>C11-C14</b>	<p><b>Security systems (e.g. biometric data, retinal scanning, authentication of drugs, DNA labelling for security purposes, etc.)</b></p>
	2005		2008
<b>C11-C10D</b>	<ul style="list-style-type: none"> <li>• <b>Phage display libraries</b></li> </ul>	<b>C11-C15</b>	<p><b>Biological tools/models/teaching aids</b> Physical entities only.</p>
	2005		2011
<b>C11-C11</b>	<p><b>General computing methods &amp; apparatus</b> Includes media and methods for storing, searching and retrieving data and drug databases. Also for computerised pharmacological models.</p>	<b>C11-C15A</b>	<ul style="list-style-type: none"> <li>• <b>Computerised teaching models</b> Includes computer simulations used to show drug effects, such as in university courses.</li> </ul>
	2005		2014
<b>C11-C11A</b>	<ul style="list-style-type: none"> <li>• <b>Patient compliance methods &amp; systems</b> Methods concerning patient compliance, e.g. medication reminders.</li> </ul>	<b>C11-C16</b>	<p><b>Apparatus specifically for pediatrics or geriatrics</b> Includes apparatus for neonates and adolescents.</p>
	2005		2017
<b>C11-C11B</b>	<ul style="list-style-type: none"> <li>• <b>Computerised teaching models</b> Includes computer simulations used to show drug effects, such as in university courses.</li> </ul>	<b>C11-C17</b>	<p><b>Bioprinting</b> Includes pre- and post-bioprinting procedures. Additionally coded with C11-C04G for tissue engineering via bioprinting, or C11-C04F for printable organs.</p>
	2014		2017
<b>C11-C11C</b>	<ul style="list-style-type: none"> <li>• <b>Computational protein/nucleic acid analysis</b></li> </ul>		
	2019		
<b>C11-C11C1</b>	<ul style="list-style-type: none"> <li>.. <b>Computational genomics</b> <i>Previous code(s): C11-C08F1</i></li> </ul>		
	2019		
<b>C11-C11C2</b>	<ul style="list-style-type: none"> <li>.. <b>Computational proteomics</b> <i>Previous code(s): C11-C08F3</i></li> </ul>		
	2019		
<b>C11-C12</b>	<p><b>Nanotechnology (general)</b> Includes nanoswitches made of DNA, nanorobots and DNA origami.</p>		
	2005		

## C12 DIAGNOSTICS AND FORMULATION TYPES (Therapeutic, Pesticidal, Herbicidal) (pre-1994)

### C12-A ANTIMICROBIAL TYPE

**C12-A01 Antibacterial**  
Antibiotics are only C02. Immunostimulant with C12-A06 (pre-1994).

1965-1993

Now coded as: C14-A1+

**C12-A02 Antifungal, antialgal, antilichen general**

1965-1993

Now coded as: C14-A04+, C14-B08

**C12-A02A . Antialgal**

1986-1993

**C12-A02B . Antilichen**

1986-1993

Now coded as: C14-B08

**C12-A02C . Antifungal**

1986-1993

Now coded as: C14-A04+

**C12-A03 Antileprotic**

1965-1993

Now coded as: C14-A01B1

**C12-A04 Antitubercular**

1965-1993

Now coded as: C14-A01B1

**C12-A05 Antivenereal**

1965-1993

Now coded as: C14-N07C, C14-A01A, C14-A01A5

**C12-A06 Antiviral**

Vaccines are only C02-V. Immunostimulant with B12-A01 (pre-1994).

1965-1993

Now coded as: C14-A02+

**C12-A07 Skin and wound treatment**

1965-1993

Now coded as: C14-N17+

**C12-A08 Antifouling**

Prior to 198601 search C12-A02, C12-N01, C12-N04 and C12-N05.

1986-1993

Now coded as: C12-B15

### C12-B ANTIPARASITIC TYPE

**C12-B01 Amoebicide**

1965-1993

Now coded as: C14-A03A

**C12-B02 Anthelmintic**

1965-1993

Now coded as: C14-B03

**C12-B03 Antimalarial**

1965-1993

Now coded as: C14-A03B

**C12-B04 Antiparasitic (general), acaricide**

1965-1993

Now coded as: C14-B02

**C12-B05 Coccidiostat**

1965-1993

Now coded as: C14-A03C

**C12-B06 Schistosomicide**

1965-1993

Now coded as: C14-B03A

**C12-B07 Trypanocide**

1965-1993

Now coded as: C14-A03E

### C12-C CNS-ACTIVE TYPE (I)

**C12-C01 Anesthetic (general)**

1965-1993

Now coded as: C14-C08

**C12-C02 Anesthetic (local)**

1965-1993

Now coded as: C14-C09

**C12-C03 Analeptic**

1965-1993

Now coded as: C14-J01A2

**C12-C04 Antiparkinsonian drug**

1965-1993

Now coded as: C14-J01A3

**C12-C05 Central depressant**

1965-1993

Now coded as: C14-J01B

**C12-C06 Central stimulant**

1965-1993

Now coded as: C14-J01A, C14-J01A1

**C12-C07 Hypnotic**

1965-1993

Now coded as: C14-J01B1

**C12-C08 Sedative**

1965-1993

Now coded as: C14-J01B2

**C12-C09 Synergist**

1965-1993

Now coded as: C14-S09

**C12-C10 Tranquiliser**

1965-1993

Now coded as: C14-J01B4, C14-J01A4, C14-F02D1, C14-J01, C14-J01B3, C14-N16, C14-S07

### C12-D CNS-ACTIVE TYPE (II)

**C12-D01 Analgesic**

1965-1993

Now coded as: C14-C01

<b>C12-D02</b>	<b>Antiallergic general</b> 1965-1993 <i>Now coded as: C14-G02A</i>	<b>C12-E</b>	<b>AUTONOMIC N.S. ACTIVE TYPE</b>
<b>C12-D02A</b>	<b>. Autoimmune disease treatment</b> See also C12-D03, C12-D07, C12-D09. 1986-1993 <i>Now coded as: C14-G02D</i>	<b>C12-E01</b>	<b>Autonomic N.S. active general</b> 1965-1993 <i>Now coded as: C14-F02, C14-J02</i>
<b>C12-D02B</b>	<b>. Immune suppressant</b> Immunomodulatory is also coded C12-A01 and C12-A06. 1986-1993 <i>Now coded as: C14-G02, C14-G03, C14-G02C</i>	<b>C12-E02</b>	<b>Muscle relaxant, inotropic</b> See also C12-F01. 1965-1993 <i>Now coded as: C14-J05, C14-J05A, C14-J05C, C14-J05D</i>
<b>C12-D02C</b>	<b>. Complement inhibitor</b> 1986-1993 <i>Now coded as: C14-G02D</i>	<b>C12-E03</b>	<b>Mydriatic/myopic</b> 1965-1993 <i>Now coded as: C14-J05B</i>
<b>C12-D02D</b>	<b>. Anti slow-releasing-substance of anaphylaxis (SRS-A)</b> 1986-1993 <i>Now coded as: C14-G02B</i>	<b>C12-E04</b>	<b>Parasympathetic blocker</b> 1965-1993 <i>Now coded as: C14-J02B+, C14-J05D</i>
<b>C12-D03</b>	<b>Antiarthritic</b> 1965-1993 <i>Now coded as: C14-C09+</i>	<b>C12-E05</b>	<b>Parasympathetic stimulant, acetyl choline potentiator</b> 1965-1993 <i>Now coded as: C14-J02A+</i>
<b>C12-D04</b>	<b>Anticonvulsant</b> 1965-1993 <i>Now coded as: C14-J07</i>	<b>C12-E06</b>	<b>Sympathetic blocker general</b> 1965-1993 <i>Now coded as: C14-J02D, C14-J02D3</i>
<b>C12-D05</b>	<b>Antiemetic</b> 1965-1993 <i>Now coded as: C14-E05</i>	<b>C12-E06A</b>	<b>. Alpha-adrenergic blocker</b> 1986-1993 <i>Now coded as: C14-J02D1</i>
<b>C12-D06</b>	<b>Antihistamine general</b> For gastric secretion inhibitor, see also C12-J02. 1965-1993 <i>Now coded as: C14-L10</i>	<b>C12-E06B</b>	<b>. Beta-adrenergic blocker</b> 1986-1993 <i>Now coded as: C14-J02D2</i>
<b>C12-D06A</b>	<b>. H2 secretion inhibitor</b> 1986-1993 <i>Now coded as: C14-L12</i>	<b>C12-E07</b>	<b>Sympathetic stimulant, adrenergic stimulant, adrenaline potentiator</b> 1965-1993 <i>Now coded as: C14-J02C+</i>
<b>C12-D06B</b>	<b>. H1 inhibitor</b> 1986-1993 <i>Now coded as: C14-L11</i>	<b>C12-E08</b>	<b>Ulcers (peptic and duodenal)</b> 1965-1993 <i>Now coded as: C14-E08</i>
<b>C12-D07</b>	<b>Antiinflammatory</b> 1965-1993 <i>Now coded as: C14-C02, C14-C03, C14-C04</i>	<b>C12-E09</b>	<b>Uterus active</b> 1965-1993 <i>Now coded as: C14-N14</i>
<b>C12-D08</b>	<b>Antipyretic</b> 1965-1993 <i>Now coded as: C14-C05, C14-C06</i>	<b>C12-F</b>	<b>CARDIOACTIVE TYPE</b> <i>Now coded as: C14-F</i>
<b>C12-D09</b>	<b>Antirheumatic</b> 1965-1993 <i>Now coded as: C14-C07</i>	<b>C12-F01</b>	<b>Cardioactive general</b> 1965-1993 <i>Now coded as: C14-F01</i>
<b>C12-D10</b>	<b>Convulsant</b> 1965-1993 <i>Now coded as: C14-J06</i>	<b>C12-F01A</b>	<b>. Arrhythmia treatment</b> 1986-1993 <i>Now coded as: C14-F01A</i>
		<b>C12-F01B</b>	<b>. Cardiac stimulant</b> Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotonic, cardiac insufficiency treatment. 1986-1993 <i>Now coded as: C14-F01B</i>

<b>C12-F01C</b>	. <b>Cardiovascular, inotropic</b> Prior to 8602 coded as C12-E02. 1986-1993 Now coded as: C14-F01C	<b>C12-G01B4</b>	.. <b>Antilyase</b> 1986-1993 Now coded as: C14-D08
<b>C12-F02</b>	<b>Coronary dilator</b> 1965-1993 Now coded as: C14-F01D, C14-F01E	<b>C12-G01B5</b>	.. <b>Antiisomerase</b> 1986-1993 Now coded as: C14-D09
<b>C12-F03</b>	<b>Ganglion blocker</b> 1965-1993 Now coded as: C14-F01F	<b>C12-G01B6</b>	.. <b>Antiligase (antisynthetase)</b> 1986-1993 Now coded as: C14-D10
<b>C12-F04</b>	<b>Hypertensive</b> 1965-1993 Now coded as: C14-F02A	<b>C12-G02</b>	<b>Choleretic and liver</b> 1965-1993 Now coded as: C14-N12
<b>C12-F05</b>	<b>Hypotensive general</b> 1965-1993 Now coded as: C14-F02B	<b>C12-G03</b>	<b>Diuretic and kidney</b> For urinary tract infections see C12-A01. 1965-1993 Now coded as: C14-F02E, C14-N10
<b>C12-F05A</b>	. <b>Angiotensin converting enzyme inhibitor, renin inhibitor</b> 1986-1993 Now coded as: C14-F02B1	<b>C12-G04</b>	<b>Hormone adrenocortical</b> Including Addison's disease treatment (general). 1965-1993 Now coded as: C14-D01, C14-D01D, C14-D01E, C14-J03
<b>C12-F05B</b>	. <b>Calcium entry blockers</b> C12-G01 may also be searched. 1986-1993 Now coded as: C14-F02B2	<b>C12-G04A</b>	. <b>Anti-aging, anti-senility, anti-Alzheimer's disease</b> Including non-hormonal treatment. 1986-1993 Now coded as: C14-J01A4
<b>C12-F06</b>	<b>Vasoconstrictor</b> 1965-1993 Now coded as: C14-F02C	<b>C12-G04B</b>	. <b>Androgenic</b> 1986-1993 Now coded as: C14-D01A
<b>C12-F07</b>	<b>Vasodilator</b> 1965-1993 Now coded as: C14-F02D+	<b>C12-G04C</b>	. <b>Estrogenic</b> 1986-1993 Now coded as: C14-D01B
<b>C12-G</b>	<b>METABOLISM ACTIVE TYPE</b>	<b>C12-G04D</b>	. <b>Progestational</b> 1986-1993 Now coded as: C14-D01C
<b>C12-G01</b>	<b>Antimetabolite general</b> 1965-1993 Now coded as: C14-J04, C14-L06, C14-L07, C14-L08	<b>C12-G05</b>	<b>Leukaemia treatment</b> 1965-1993 Now coded as: C14-H01A
<b>C12-G01A</b>	. <b>Antihormone, antiandrogenic, antiestrogenic, antiprogestational, adrenal cortex inhibitor</b> 1986-1993 Now coded as: C14-D02+	<b>C12-G06</b>	<b>Thyroid agent</b> 1965-1993 Now coded as: C14-N11
<b>C12-G01B</b>	. <b>Enzyme inhibitor</b> 1986-1993 Now coded as: C14-D03, C14-D04	<b>C12-G07</b>	<b>Tumour inhibitor</b> 1965-1993 Now coded as: C14-H01, C14-H01B
<b>C12-G01B1</b>	.. <b>Antioxidoreductase</b> 1986-1993 Now coded as: C14-D05+	<b>C12-H</b>	<b>BLOOD ACTIVE TYPE</b>
<b>C12-G01B2</b>	.. <b>Antitransferase</b> 1986-1993 Now coded as: C14-D06+	<b>C12-H01</b>	<b>Antianemic</b> 1965-1993 Now coded as: C14-F03
<b>C12-G01B3</b>	.. <b>Antihydrolase</b> 1986-1993 Now coded as: C14-D07+	<b>C12-H02</b>	<b>Anticoagulant</b> 1965-1993 Now coded as: C14-F04

<b>C12-H03</b>	<b>Antilipemic</b> 1965-1993 <i>Now coded as: C14-F06, C14-F07</i>	<b>C12-J08</b>	<b>Bone disorder treatment, osteoporosis</b> Excluding arthritis treatment (C12-D03) and bone marrow cell disorders (C12-G05). For osteoporosis prior to 198601 search C12-J01. 1986-1993 <i>Now coded as: C14-N01</i>
<b>C12-H04</b>	<b>Coagulant</b> 1965-1993 <i>Now coded as: C14-F08</i>	<b>C12-K</b>	<b>DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)</b>
<b>C12-H05</b>	<b>Hypoglycemic</b> 1965-1993 <i>Now coded as: C14-F09, C14-F10</i>	<b>C12-K01</b>	<b>Antitussive</b> 1965-1993 <i>Now coded as: C14-K01B</i>
<b>C12-H06</b>	<b>Plasma and blood substitutes</b> 1965-1993 <i>Now coded as: C14-F11</i>	<b>C12-K02</b>	<b>Bronchodilator</b> 1965-1993 <i>Now coded as: C14-K01D</i>
<b>C12-J</b>	<b>GASTROINTESTINAL ACTIVE TYPE</b>	<b>C12-K03</b>	<b>Contraceptive</b> 1965-1993 <i>Now coded as: C14-P01+</i>
<b>C12-J01</b>	<b>Anabolic agent, nutritional, achlorhydria treatment (humans)</b> 1965-1993 <i>Now coded as: C14-E10+, C14-E11</i>	<b>C12-K04</b>	<b>Diagnosis and testing general</b> This section is used for coding substances which are stated to be detecting agents: e.g. a new antibody used for detecting cancer is coded under C04-G and C12-K04G2A only. When the procedure for detecting is described as novel, then the corresponding C11-C07 and C11-C08 codes are also applied. As of 201601, subsection C12-K04A has been retired and the codes reorganised and expanded in new subsection C12-K04G.
<b>C12-J02</b>	<b>Anorectic, antisecretory</b> 1965-1993 <i>Now coded as: C14-E07, C14-E12</i>	<b>C12-K04A</b>	<b>. Diagnosis of diseases or conditions in animals general</b> Including detection of glucose in blood and ethanol in breath. 1986-2015 <i>Now coded as C12-K04G</i>
<b>C12-J03</b>	<b>Antacid</b> 1965-1993 <i>Now coded as: C14-E01, C14-E03</i>	<b>C12-K04A1</b>	<b>.. Diagnosis of tumours, cancer</b> 1986-2015 <i>Now coded as C12-K04G2A</i>
<b>C12-J04</b>	<b>Antidiarrheal, antihemorrhoidal</b> 1965-1993 <i>Now coded as: C14-E02, C14-E04</i>	<b>C12-K04A2</b>	<b>.. Diagnosis of heart and circulatory disorders</b> 1986-2015 <i>Now coded as C12-K04G2B</i>
<b>C12-J05</b>	<b>Antidote general</b> 1965-1993 <i>Now coded as: C14-M01, C14-M01C</i>	<b>C12-K04A3</b>	<b>.. Diagnosis of genetic disorders</b> 1986-2015 <i>Now coded as C12-K04G2C</i>
<b>C12-J05A</b>	<b>. Alcoholism treatment</b> 1986-1993 <i>Now coded as: C14-M01A</i>	<b>C12-K04A4</b>	<b>.. Diagnosis of microbial infections</b> 1986-2015 <i>Now coded as C12-K04G1A</i>
<b>C12-J05B</b>	<b>. Antismoking</b> 1986-1993 <i>Now coded as: C14-M01B</i>	<b>C12-K04A4A</b>	<b>... Detection of viral diseases</b> 2005-2015 <i>Now coded as C12-K04G1B</i>
<b>C12-J05C</b>	<b>. Anti-heavy metal poisoning</b> 1986-1993 <i>Now coded as: C14-M01D</i>		
<b>C12-J05D</b>	<b>. Pesticide or herbicide antidote</b> 1986-1993 <i>Now coded as: C14-M01E</i>		
<b>C12-J05E</b>	<b>. Protecting plants from poisons</b> 1986-1993 <i>Now coded as: C14-M01F</i>		
<b>C12-J06</b>	<b>Emetic</b> 1965-1993 <i>Now coded as: C14-E06</i>		
<b>C12-J07</b>	<b>Laxative</b> 1965-1993 <i>Now coded as: C14-E09</i>		



<b>C12-K04A4B</b>	... <b>Detection of bacterial diseases</b> 2005-2015 <i>Now coded as C12-K04G1C</i>	<b>C12-K04C3</b>	.. <b>Tomography</b> Includes PET (positron emission tomography). 2007
<b>C12-K04A4C</b>	... <b>Detection of fungal diseases</b> 2015-2015 <i>Now coded as C12-K04G1D</i>	<b>C12-K04D</b>	. <b>Testing for plant disorders or diseases</b> 1986
<b>C12-K04A5</b>	.. <b>Diagnosis of CNS disorders</b> 1986-2015 <i>Now coded as C12-K04G2D</i>	<b>C12-K04E</b>	. <b>Testing for substances other than for diseases</b> Not in body fluids. 1986
<b>C12-K04A6</b>	.. <b>Diagnosis of pregnancy, testing or measuring sex hormone levels and estrus cycle</b> 1986-2015 <i>Now coded as C12-K04G2E</i>	<b>C12-K04E1</b>	.. <b>Drug discovery process</b> 2005
<b>C12-K04A7</b>	.. <b>Detection of parasites</b> Including protozoa and helminths. 2006-2015 <i>Now coded as C12-K04G1E</i>	<b>C12-K04E2</b>	.. <b>Environmental testing</b> Includes testing for contaminants in rivers. 2005
<b>C12-K04A8</b>	.. <b>Diagnosis of immunological disorders</b> 2007-2015 <i>Now coded as C12-K04G2F</i>	<b>C12-K04E3</b>	.. <b>Other drug testing</b> includes quality control 2007
<b>C12-K04A9</b>	.. <b>Diagnosis of respiratory disorders</b> Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. 2012-2015 <i>Now coded as C12-K04G2G</i>	<b>C12-K04F</b>	. <b>Tests involving nucleic acid, hybridisation probes etc.</b> 1994 <i>Previous code(s): C12-K04, C12-K04A</i>
<b>C12-K04A10</b>	.. <b>Diagnosis or detection of endocrine and hormonal diseases</b> Including thyroid diseases. 2015-2015 <i>Now coded as C12-K04G2H</i>	<b>C12-K04G</b>	. <b>Diagnosis of diseases or conditions in animals general</b> Including detection of glucose in blood and ethanol in breath. 2016 <i>Previous code(s): C12-K04A</i>
<b>C12-K04B</b>	. <b>In vivo radiopharmaceutical diagnostics</b> Excludes in-vivo X-ray and MRI diagnostics which are coded in C12-K07 and other types of in-vivo imaging which are coded in C12-K04C. 1986	<b>C12-K04G1</b>	.. <b>Diagnosis of infections and exogenous disorders</b> 2016
<b>C12-K04C</b>	. <b>In vivo imaging (other than by X-ray or radiopharmaceuticals)</b> Includes imaging of complete organs, cells e.g. cancer cells, or other biological molecules within a whole body rather than a sample. 1986	<b>C12-K04G1A</b>	... <b>Diagnosis of microbial diseases general and other</b> 2016 <i>Previous code(s): C12-K04A4</i>
<b>C12-K04C1</b>	.. <b>Ultrasonics</b> 1994 <i>Previous code(s): C12-K04C</i>	<b>C12-K04G1B</b>	... <b>Detection of viral diseases</b> 2016 <i>Previous code(s): C12-K04A4A</i>
<b>C12-K04C2</b>	.. <b>NMR</b> 1994 <i>Previous code(s): C12-K04C</i>	<b>C12-K04G1C</b>	... <b>Detection of bacterial diseases</b> 2016 <i>Previous code(s): C12-K04A4B</i>
		<b>C12-K04G1D</b>	... <b>Detection of fungal diseases</b> 2016 <i>Previous code(s): C12-K04A4C</i>
		<b>C12-K04G1E</b>	... <b>Detection of parasites</b> Including protozoa and helminths. 2016 <i>Previous code(s): C12-K04A7</i>
		<b>C12-K04G2</b>	.. <b>Diagnosis of endogenous disorders general and other</b> 2016

<b>C12-K04G2A</b>	<b>... Diagnosis of tumors, cancer</b> 2016 <i>Previous code(s): C12-K04A1</i>	<b>C12-L</b>	<b>COSMETIC PREPARATION TYPE</b>
<b>C12-K04G2B</b>	<b>... Diagnosis of heart and circulatory disorders</b> 2016 <i>Previous code(s): C12-K04A2</i>	<b>C12-L01</b>	<b>Antiperspirant</b> 1965-1993 <i>Now coded as: C14-R03</i>
<b>C12-K04G2C</b>	<b>... Diagnosis of genetic disorders</b> 2016 <i>Previous code(s): C12-K04A3</i>	<b>C12-L02</b>	<b>Cosmetic</b> 1965-1993 <i>Now coded as: C14-R01</i>
<b>C12-K04G2D</b>	<b>... Diagnosis of CNS disorders</b> 2016 <i>Previous code(s): C12-K04A5</i>	<b>C12-L03</b>	<b>Dental agent</b> 1965-1993 <i>Now coded as: C14-N06</i>
<b>C12-K04G2E</b>	<b>... Diagnosis of pregnancy, testing or measuring sex hormone levels and estrus cycle</b> 2016 <i>Previous code(s): C12-K04A6</i>	<b>C12-L04</b>	<b>Ear, nose, eye mouth and throat preparation</b> 1965-1993 <i>Now coded as: C14-N02, C14-N03, C14-N04, C14-N05</i>
<b>C12-K04G2F</b>	<b>... Diagnosis of immunological disorders</b> 2016 <i>Previous code(s): C12-K04A8</i>	<b>C12-L05</b>	<b>Hair preparation</b> 1965-1993 <i>Now coded as: C14-R02</i>
<b>C12-K04G2G</b>	<b>... Diagnosis of respiratory disorders</b> Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. 2016 <i>Previous code(s): C12-K04A9</i>	<b>C12-L06</b>	<b>Insect repellent</b> 1965-1993 <i>Now coded as: C14-B05</i>
<b>C12-K04G2H</b>	<b>... Diagnosis of endocrine and hormonal diseases</b> Including thyroid diseases. 2016 <i>Previous code(s): C12-K04A10</i>	<b>C12-L07</b>	<b>Perfume</b> 1965-1993 <i>Now coded as: C14-R04</i>
<b>C12-K04G2I</b>	<b>... Diagnosis of gastrointestinal disorders</b> 2016	<b>C12-L08</b>	<b>Sunscreen agent</b> 1965-1993 <i>Now coded as: C14-R05</i>
<b>C12-K04G2J</b>	<b>... Diagnosis of renal and urological disorders</b> 2016	<b>C12-L09</b>	<b>Veterinary</b> 1965-1993
<b>C12-K04G2K</b>	<b>... Diagnosis of metabolic disorders</b> 2021	<b>C12-L10</b>	<b>Agricultural composition general</b> 1966-1993
<b>C12-K05</b>	<b>Expectorant</b> 1965-1993 <i>Now coded as: C14-K01E</i>	<b>C12-M</b>	<b>FORMULATIONS TYPE</b> Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.
<b>C12-K06</b>	<b>Respiratory active</b> 1965-1993 <i>Now coded as: C14-K01, C14-K01C</i>	<b>C12-M01</b>	<b>Aerosol, inhalent, smoke general</b>
<b>C12-K07</b>	<b>Contrast agents and medium</b> Prior to 2010, this code covered X-ray contrast media only. Includes X-ray and MRI agents and media. Does not include radiopharmaceuticals (coded in C12-K04B) and other in-vivo imaging (coded in C12-K04C). 1963	<b>C12-M01A</b>	<b>. Aerosol</b> 1986
		<b>C12-M01B</b>	<b>. Inhalent</b> 1986
		<b>C12-M01B1</b>	<b>.. Dry powder inhaler</b> A dry powder inhaler (DPI) is similar to a metered dose inhaler, but is breath-activated, so the patient does not have to co-ordinate activation of the inhaler with inhalation of medicament. 2005

<b>C12-M01B2</b>	.. <b>Multidose inhaler</b> A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage.	2005	<b>C12-M02F</b>	. <b>Transdermal</b> Administration of a drug through dermal or mucosal membrane. Includes microneedles.	1986
<b>C12-M01B3</b>	.. <b>Nebuliser</b> A device which is used to administer a solution of drug in the form of a fine mist for patient to inhale. Air is forced through the drug solution in the drug chamber, changing the liquid into a fine mist which is breathed in through a mask or mouthpiece.	2005	<b>C12-M02G</b>	. <b>Gels/hydrogels</b>	2006
<b>C12-M01B4</b>	.. <b>Metered dose inhaler</b>	2008	<b>C12-M03</b>	<b>Emulsion</b>	
<b>C12-M01C</b>	. <b>Smoke</b> Also includes incense.	1986	<b>C12-M04</b>	<b>Packaging material, apparatus</b> This code is used in conjunction with only the C, C01, C07, C08 and C09 sub-sections of C11.	
<b>C12-M01D</b>	. <b>Intranasal</b> <i>Now coded as: C12-M12Q</i>	2002-2006	<b>C12-M05</b>	<b>Pharmaceutical composition general</b>	
<b>C12-M01E</b>	. <b>Other gaseous forms</b>	2005	<b>C12-M06</b>	<b>Preservative</b>	
<b>C12-M02</b>	<b>Cream, gel, ointment, plaster</b>		<b>C12-M07</b>	<b>Solution</b>	
<b>C12-M02A</b>	. <b>Toothpaste, toothpowder</b> From 198601 C12-L03 is not additionally applied.	1986	<b>C12-M08</b>	<b>Suppository</b> Also includes pessaries.	
<b>C12-M02B</b>	. <b>Ointment, cream, lotion</b> Includes liniment, paste, balm and other general oil-based formulations.	1986	<b>C12-M09</b>	<b>Surfactant</b>	
<b>C12-M02C</b>	. <b>Cataplasm, poultice</b> Applying heat.	1986	<b>C12-M10</b>	<b>Controlled release general</b>	
<b>C12-M02D</b>	. <b>Adhesive sheet, sticking plaster, bandage, gauze</b> From 2006, the scope of this code has been extended to cover adhesive sheets in addition to sticking plasters and bandages. Also includes gauze. Excluding C12-M02C.	1986	<b>C12-M10A</b>	. <b>Sustained release general</b> Active ingredient is gradually released over a period of time.	1986
<b>C12-M02E</b>	. <b>Dusting powder</b> Topical use only.	1986	<b>C12-M10A1</b>	.. <b>Osmotic pump</b> Similar to a reservoir device but with an osmotic agent added (typically the active agent in salt form) which causes pressure generation that forces out the active agent.	2005
			<b>C12-M10A2</b>	.. <b>Reservoir devices</b> Active drug core encapsulated within a polymer film or coat through which it diffuses.	2005
			<b>C12-M10A3</b>	.. <b>Multi-layer tablet</b> Variation on the matrix device in which the matrix is coated so as to modify the hydration/swelling of the core and so reduce the surface area available for drug delivery.	2005
			<b>C12-M10A4</b>	.. <b>Other matrix devices</b> Drug is present as a dispersion within a polymer matrix, including clathrates. Also known as monolithic devices. Not used for the multi-layer tablet type (in which matrix is fully or partially coated) or for externally stimulated devices.	2005

<b>C12-M10A5</b>	.. <b>Pendant devices</b> Active is bound to polymer, from which it is released by hydrolytic enzymes in the body. <b>2005</b>	<b>C12-M10E3</b>	.. <b>Using nucleic acids</b> A site-specific release form in which the drug is bound to nucleic acid. <b>2017</b>
<b>C12-M10A6</b>	.. <b>Dual release devices</b> Typically soft gelatin capsules designed to provide an initial burst of drug followed by a steady release of the remainder. Consists of an inner aqueous matrix and outer lipophilic matrix. <b>2005</b>	<b>C12-M10E4</b>	.. <b>Using protein/peptide</b> A site-specific release form in which the drug is bound to a protein/peptide. <b>2019</b>
<b>C12-M10A7</b>	.. <b>Nanotechnology devices</b> Use of nanotechnology to deliver drugs to specific sites and control their release at that point. Includes quantum dots. <b>2005</b>	<b>C12-M10F</b>	. <b>Externally stimulated devices (e.g. electrically or ultrasonically)</b> Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other C12-M10 codes. <b>2005</b>
<b>C12-M10B</b>	. <b>Delayed release</b> This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines. <b>1986</b>	<b>C12-M11</b>	<b>Tablets, capsules, pills etc. general</b>
<b>C12-M10C</b>	. <b>Rapid release</b> <b>2002</b>	<b>C12-M11A</b>	. <b>Anticaking</b> <b>1986</b>
<b>C12-M10D</b>	. <b>Pulsed release</b> Active drug core coated with specific polymers and agents, where active agent is released in a "drug pulse" after a time lag. <b>2005</b>	<b>C12-M11B</b>	. <b>Tablet (pressed)</b> <b>1986</b>
<b>C12-M10E</b>	. <b>Site-specific release</b> Drug bound to/encased in a biopolymer or other active substance in order to facilitate its transfer through the cell wall. This ensures the drug is delivered to the specific cells it needs to reach. <b>2005</b>	<b>C12-M11C</b>	. <b>Capsule</b> Excluding microcapsule. <b>1986</b>
<b>C12-M10E1</b>	.. <b>Using lipid-based systems</b> A site specific release form in which the drug is encased in a lipid based system. These may include liposomes, solid lipid nanoparticles (SLNs), nanostructured lipid carriers (NLC) and hybrid nanoparticles. <b>2005</b>	<b>C12-M11D</b>	. <b>Pellet, prill, granule, particle</b> Excluding C12-M11B. <b>1986</b>
<b>C12-M10E2</b>	.. <b>Using antibodies</b> A site-specific release form in which the drug is bound to an antibody. <b>2005</b>	<b>C12-M11E</b>	. <b>Microcapsule</b> Excluding C12-M11F. <b>1986</b>
		<b>C12-M11F</b>	. <b>Liposomes/niosomes</b> Includes non-ionic surfactant-based liposomes (when site specific release is not mentioned). Includes micelles. <b>1986</b>
		<b>C12-M11G</b>	. <b>Powder</b> <b>1986</b>
		<b>C12-M11H</b>	. <b>Polymorphic form</b> <b>2010</b>
		<b>C12-M11H1</b>	.. <b>Special amorphous form</b> <b>2006</b>
		<b>C12-M11H2</b>	.. <b>Special crystal form</b> <b>2010</b>
		<b>C12-M11J</b>	. <b>Effervescent formulation</b> Includes effervescent tablets and effervescent granules. <b>1994</b>
		<b>C12-M11K</b>	. <b>Tablet with two or more coating layers</b> <b>1994</b> <i>Previous code(s): C12-M11B</i>

<b>C12-M11L</b>	. <b>Water-soluble formulation</b> Includes water-soluble tablets and water-soluble granules. 2002	<b>C12-M12</b>	<b>MODE OF ADMINISTRATION</b> 2005
<b>C12-M11M</b>	. <b>Chewable tablet</b> 2005	<b>C12-M12A</b>	. <b>Buccal, sublingual</b> 2005
<b>C12-M11N</b>	. <b>Microparticle</b> 2006	<b>C12-M12B</b>	. <b>External, topical</b> 2005
<b>C12-M11P</b>	. <b>Lyophilized form</b> Also includes freeze dried forms. 2006	<b>C12-M12C</b>	. <b>Injection</b> 2005
<b>C12-M11Q</b>	. <b>Nanoformulations</b> Includes nanoparticles. 2008	<b>C12-M12D</b>	. <b>Infusion</b> 2005
<b>C12-M11Q1</b>	.. <b>Nanoparticle</b> 2020	<b>C12-M12E</b>	. <b>Intraarterial</b> 2005
<b>C12-M11Q2</b>	.. <b>Nanoemulsion</b> 2020	<b>C12-M12F</b>	. <b>Intravenous</b> 2005
<b>C12-M11Q3</b>	.. <b>Nanosuspension</b> 2020	<b>C12-M12G</b>	. <b>Intraaural</b> 2005
<b>C12-M11R</b>	. <b>Coated form general and other</b> Tablets with two or more coating layers are coded under C12-M11K. 2009	<b>C12-M12H</b>	. <b>Intraocular</b> Includes intravitreal. 2005
<b>C12-M11R1</b>	.. <b>Coated capsules</b> 2009	<b>C12-M12I</b>	. <b>Intratracheal</b> 2020
<b>C12-M11R2</b>	.. <b>Coated microparticles</b> 2009	<b>C12-M12J</b>	. <b>Intramuscular</b> 2005
<b>C12-M11R3</b>	.. <b>Coated tablets</b> 2012	<b>C12-M12K</b>	. <b>Subcutaneous</b> 2005
<b>C12-M11S</b>	. <b>Foam formulation</b> 2011	<b>C12-M12L</b>	. <b>Intrauterine, cervical</b> 2005
<b>C12-M11T</b>	. <b>Lozenge</b> 2014	<b>C12-M12M</b>	. <b>Intravaginal</b> 2005
<b>C12-M11U</b>	. <b>Dual dosage forms</b> E.g. tablet in capsule / pellet in capsule. To be searched alongside the C12 codes for each individual dosage component. 2016	<b>C12-M12N</b>	. <b>Oral general</b> 2005
<b>C12-M11V</b>	. <b>Colloidal form</b> May be searched with other code(s) from C12-M. 2016	<b>C12-M12O</b>	. <b>Intraosseous</b> Administration directly into bone. 2020
<b>C12-M11Z</b>	. <b>Pro-formulation</b> Additional code to indicate the pro-form of a formulation, e.g. pro-liposomes. Applied in conjunction with other C12-M11 codes. 2015	<b>C12-M12P</b>	. <b>Rectal general</b> 2005
		<b>C12-M12Q</b>	. <b>Intranasal</b> 2006
		<b>C12-M12R</b>	. <b>Intrathecal</b> 2012
		<b>C12-M12S</b>	. <b>Intraarticular</b> 2013
		<b>C12-M12T</b>	. <b>Intramedular</b> Intramedular/intramedullary. 2013
		<b>C12-M12U</b>	. <b>Intraperitoneal</b> 2013
		<b>C12-M12V</b>	. <b>Epidural</b> Mode of administration is through the spinal cord. 2015

<b>C12-M12W</b>	<ul style="list-style-type: none"> <li><b>Intravesical</b> Injecting drugs directly to urinary bladder.</li> </ul>	2017	<b>C12-N06</b>	<b>Rodent repellent</b> Including birds etc.	1965-1993
<b>C12-M12X</b>	<ul style="list-style-type: none"> <li><b>Intratumoral</b></li> </ul>	2019	<b>C12-N07</b>	<b>Soil fumigants, sterilants and seed protectants</b>	1965-1993
<b>C12-M12Y</b>	<ul style="list-style-type: none"> <li><b>Intracardiac</b> Administration directly into the heart.</li> </ul>	2020	<b>C12-N08</b>	<b>Soil improving (other than nutrients), synthetic growth media</b>	1965-1993
<b>C12-M12Z</b>	<ul style="list-style-type: none"> <li><b>Specific treatment regime</b> Includes sequential administration of drugs, tapered dosing regimes.</li> </ul>	2011	<b>C12-N09</b>	<b>Soil nutrients</b> Inorganic, including trace elements.	1965-1993
<b>C12-M13</b>	<b>Foliar application</b>	2005	<b>C12-N10</b>	<b>Soil nutrients (others)</b>	1965-1993
<b>C12-M14</b>	<b>Suspensions, dispersions</b>	2005	<b>C12-P</b>	<b>PLANT GROWTH REGULANT TYPE</b>	
<b>C12-M15</b>	<b>Film, sheet</b> Includes laminates.	2005	<b>C12-P01</b>	<b>Plant growth regulants general</b>	1965-1993
<b>C12-M16</b>	<b>Prosthesis</b>	2005	<b>C12-P02</b>	<b>Defoliant, desiccants, chemical mowing</b>	1965-1993
<b>C12-M17</b>	<b>Surgical sponge, tampon</b>	2005	<b>C12-P03</b>	<b>Fruit drop and set, thinning of fruit</b>	1965-1993
<b>C12-M18</b>	<b>Encapsulation</b>	2005	<b>C12-P04</b>	<b>Growth stimulants, phytohormones</b>	1965-1993
<b>C12-M19</b>	<b>Gene delivery methods</b>	2006	<b>C12-P05</b>	<b>Herbicide (total and general)</b>	1965-1993
<b>C12-M19A</b>	<ul style="list-style-type: none"> <li><b>Gene delivery by viral methods</b></li> </ul>	2006	<b>C12-P06</b>	<b>Herbicide (selective)</b>	1965-1993
<b>C12-M19B</b>	<ul style="list-style-type: none"> <li><b>Gene delivery by non-viral methods</b></li> </ul>	2006	<b>C12-P07</b>	<b>Moss, lichen controlling</b>	1965-1993
<b>C12-M20</b>	<b>Taste masking agent</b>	2007	<b>C12-P08</b>	<b>Rooting cpds. (rhizogenes)</b>	1965-1993
<b>C12-M21</b>	<b>Absorbent, accelerator</b>	2007	<b>C12-P09</b>	<b>Sprouting inhibitors, seed germination inhibitors, growth inhibitors</b>	1965-1993
<b>C12-M22</b>	<b>Formulations to prevent drugs from being abused</b>	2008	<b>C12-P10</b>	<b>Moisture conservation (mulches)</b>	1965-1993
<b>C12-N</b>	<b>PESTICIDES, FERTILIZERS</b>		<b>C12-Q01</b>	<b>TARGETED THERAPIES</b> Includes pharmacogenomics, precision medicine, personalised medicine and theranostics.	2006
<b>C12-N01</b>	<b>Pesticides general</b>	1965-1993	<b>C12-Q01A</b>	<ul style="list-style-type: none"> <li><b>Pharmacogenomics general</b></li> </ul>	2006
<b>C12-N02</b>	<b>Insecticides</b>	1965-1993			
<b>C12-N03</b>	<b>Lures, baits etc</b>	1965-1993			
<b>C12-N04</b>	<b>Molluscicide, slugicide</b>	1965-1993			
<b>C12-N05</b>	<b>Rodenticide</b> Including birds etc.	1965-1993			

<b>C12-R</b>	<p><b>FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS</b>  e.g. herbicide formulation specifically excluding glyphosate. The component(s) excluded is/are not coded in sections C01-C10.</p> <p style="text-align: right;"><b>2009</b></p>
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## **C14 AGRICULTURAL ACTIVITIES**

When a patent refers to a drug's mode of action and lists a number of activities associated with it, only the mode of action is coded.

When a patent refers to a class of diseases and then specifies only one preferred condition, both the general and specific disease codes should be applied.

<b>C14-A</b>	<b>ANTIMICROBIALS</b>	<b>1994</b>
<b>C14-A01</b>	<b>Antibacterial general</b>	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A</b>	<b>. Gram-negative genera, general and other</b>	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A1</b>	<b>.. Bordetella</b> e.g. B. pertussis.	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A2</b>	<b>.. Borrelia</b> e.g. B. burgdorferi (causes Lyme disease)	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A3</b>	<b>.. Escherichia</b> e.g. E. coli.	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A4</b>	<b>.. Mycoplasma</b> e.g. M. pneumoniae, M. mycoides.	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A5</b>	<b>.. Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis.	<b>1994</b>
	<i>Previous code(s): C12-A05</i>	
<b>C14-A01A6</b>	<b>.. Pseudomonas</b> e.g. P. aeruginosa, P. mallei.	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A7</b>	<b>.. Rickettsia</b> e.g. R. prowazekii (causes typhus).	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	
<b>C14-A01A8</b>	<b>.. Salmonella</b> e.g. S. typhi (causes typhoid fever).	<b>1994</b>
	<i>Previous code(s): C12-A01</i>	

<b>C14-A01A9</b>	.. <b>Vibrio</b> e.g. <i>V. cholerae</i> , <i>V. parahemolyticus</i> .  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A01X</b>	. <b>Combating resistant bacteria</b> This code is applied in conjunction with one or more codes from section C14-A01.	<b>2013</b>
<b>C14-A01B</b>	. <b>Gram-positive genera, general and other</b>  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02</b>	<b>Antiviral general</b>  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B1</b>	.. <b>Mycobacteria</b> e.g. <i>M. bovis</i> , <i>M. phlei</i> .  <i>Previous code(s): C12-A01, C12-A03, C12-A04</i>	<b>1994</b>	<b>C14-A02A</b>	. <b>DNA Viruses general and other</b>  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B1A</b>	... <b>M. tuberculosis</b>	<b>2005</b>	<b>C14-A02A1</b>	.. <b>Adenovirus</b>  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B1B</b>	... <b>M. leprae</b>	<b>2005</b>	<b>C14-A02A2</b>	.. <b>Arbovirus</b> This code is used for treatment of e.g. yellow fever or viral encephalitis.  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B2</b>	.. <b>Streptococcus</b> e.g. <i>S. pyogenes</i> , <i>S. faecalis</i> , <i>S. pneumoniae</i> (pneumococci), <i>S. lactis</i> .  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02A3</b>	.. <b>Herpesvirus</b> e.g. cytomegalovirus, Epstein-Barr, chicken pox.  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B3</b>	.. <b>Streptomyces</b> e.g. <i>S. griseus</i> , <i>S. scabies</i> .  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02A4</b>	.. <b>Poxvirus</b> Including monkeypox.  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01B4</b>	.. <b>Staphylococcus</b> e.g. <i>S. aureus</i> , <i>S. epidermitidis</i> .  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02A5</b>	.. <b>Hepatitis B virus</b>  <i>Previous code(s): C12-A06, C12-G02</i>	<b>1994</b>
<b>C14-A01B5</b>	.. <b>Bacillus</b> e.g. <i>B. anthracis</i> , <i>B. cereus</i> .  <b>2006</b>	<b>2006</b>	<b>C14-A02A6</b>	.. <b>Papovavirus</b> e.g. papilloma.  <i>Previous code(s): C12-A06</i>	<b>1994</b>
<b>C14-A01C</b>	. <b>Plant antibacterial general</b>  <i>Previous code(s): C12-A06</i>	<b>1994</b>	<b>C14-A02A7</b>	.. <b>Hepatitis C treatment</b> Now coded as C14-A02B9. <b>2002-2014</b>	<b>2002-2014</b>
<b>C14-A01C1</b>	.. <b>Enterobacteria (plant)</b> e.g. <i>Erwinia</i> . Including soft rot, fibre blight treatment.  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02A8</b>	.. <b>Hepatitis D treatment</b>	<b>2002</b>
<b>C14-A01C2</b>	.. <b>Pseudomonas (plant)</b> Including plant spot, canker, gummosis treatment.  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02A9</b>	.. <b>Parvovirus</b> Includes treatment of "slapped cheek" syndrome.  <b>2005</b>	<b>2005</b>
<b>C14-A01C3</b>	.. <b>Agrobacteria</b> Including crown gall treatment.  <i>Previous code(s): C12-A01</i>	<b>1994</b>	<b>C14-A02B</b>	. <b>RNA Viruses general and other</b> Includes Filoviridae e.g. Ebola virus and Marburg virus.  <i>Previous code(s): C12-A06</i>	<b>1994</b>
			<b>C14-A02B0</b>	.. <b>Calcivirus</b> e.g. norovirus, lagovirus, sapovirus, feline calcivirus.  <b>2014</b>	<b>2014</b>



<b>C14-A02B1</b>	<p><b>.. Retrovirus</b> Including leuco- and oncoviruses, T-cell leukemia virus, HIV, Rous sarcoma. Treatment of AIDS directed against symptoms or immune system is coded C14-G01B.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06, C12-G05, C12-G07</i></p>	<b>C14-A02B9</b>	<p><b>.. Flavivirus</b> Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis C and G virus and West Nile virus. Prior to 201501, Hepatitis C virus was coded C14-A02A7.</p> <p style="text-align: right;"><b>2005</b></p>
<b>C14-A02B2</b>	<p><b>.. (Para/ortho)Myxovirus</b> Including Influenza and mumps. When treatment of influenza is directed against symptoms, other codes may be applied, e.g. antipyretic drug for treating flu is coded C14-C04.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A02X</b>	<p><b>. Combating resistant viruses</b> This code is applied in conjunction with one or more codes from section C14-A02.</p> <p style="text-align: right;"><b>2013</b></p>
<b>C14-A02B3</b>	<p><b>.. Picornavirus</b> Including entero-, rhino-, polio-, cold, hepatitis A. For hepatitis B see C14-A02A5. When treatment of cold is directed against symptoms, other codes may be applied, e.g. antiinflammatory drug for treating cold is coded C14-C03.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06, C12-G02</i></p>	<b>C14-A03</b>	<p><b>Antiprotozoal general and other</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B04</i></p>
<b>C14-A02B4</b>	<p><b>.. Rhabdovirus</b> Including rabies.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A03A</b>	<p><b>. Amoebicide</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B01</i></p>
<b>C14-A02B5</b>	<p><b>.. Coronavirus</b> Including SARS, also coded as C14-K01D.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A03B</b>	<p><b>. Antimalarial</b> Plasmodium is the malarial parasite.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B03</i></p>
<b>C14-A02B6</b>	<p><b>.. Togavirus</b> Including rubella.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A03C</b>	<p><b>. Coccidiostat</b> Includes Eimeria and Isospora.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B05</i></p>
<b>C14-A02B7</b>	<p><b>.. Reovirus</b> e.g. rotavirus.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A03D</b>	<p><b>. Trichomonicide, histomonicide</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B04</i></p>
<b>C14-A02B8</b>	<p><b>.. Plant antiviral general</b> This code covers treatment of plant viral diseases e.g. mosaic, yellow disease.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A06</i></p>	<b>C14-A03E</b>	<p><b>. Trypanocide</b> i.e. sleeping sickness.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-B07</i></p>
		<b>C14-A03F</b>	<p><b>. Other antiprotozoal</b></p> <p style="text-align: right;"><b>2005</b></p>
		<b>C14-A03X</b>	<p><b>. Combating resistant protozoa</b> This code is applied in conjunction with one or more codes from section C14-A03.</p> <p style="text-align: right;"><b>2014</b></p>
		<b>C14-A04</b>	<p><b>Antifungal general and other</b></p> <p style="text-align: right;"><b>1994</b></p>
		<b>C14-A04A</b>	<p><b>. Aspergillus</b></p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A02C</i></p>
		<b>C14-A04B</b>	<p><b>. Candida</b> This code covers treatment of thrush.</p> <p style="text-align: right;"><b>1994</b></p> <p><i>Previous code(s): C12-A02C</i></p>

<b>C14-A04C</b>	<ul style="list-style-type: none"> <li>• <b>Trichophyton, Microsporium</b> This code covers treatment of e.g. ringworm, tinea, athlete's foot. 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-A06N</b>	<ul style="list-style-type: none"> <li>• <b>Powdery mildew</b> e.g. Erysiphe, Sphaerotheca, Podosphaera, Uncinula. 1994 <i>Previous code(s): C12-A02C</i></li> </ul>
<b>C14-A04X</b>	<ul style="list-style-type: none"> <li>• <b>Combating resistant fungi</b> This code is applied in conjunction with one or more codes from section C14-A04. 2013</li> </ul>	<b>C14-A06P</b>	<ul style="list-style-type: none"> <li>• <b>Downey mildew</b> e.g. Plasmopara, Peronospora. 1994 <i>Previous code(s): C12-A02C</i></li> </ul>
<b>C14-A05</b>	<p><b>Antialgal</b> 1994 <i>Previous code(s): C12-A02A</i></p>	<b>C14-A06R</b>	<ul style="list-style-type: none"> <li>• <b>Rusts</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>
<b>C14-A06</b>	<p><b>Plant antifungal general</b> 1994 <i>Previous code(s): C12-A02C</i></p>	<b>C14-A06S</b>	<ul style="list-style-type: none"> <li>• <b>Smuts, bunts</b> e.g. Ustilago, Tilletia. 1994 <i>Previous code(s): C12-A02C</i></li> </ul>
<b>C14-A06A</b>	<ul style="list-style-type: none"> <li>• <b>Alternaria</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-A06T</b>	<ul style="list-style-type: none"> <li>• <b>Others</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>
<b>C14-A06B</b>	<ul style="list-style-type: none"> <li>• <b>Botrytis</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-A06X</b>	<ul style="list-style-type: none"> <li>• <b>Combating resistant plant fungi</b> This code is applied in conjunction with one or more codes from section C14-A06. 2013</li> </ul>
<b>C14-A06C</b>	<ul style="list-style-type: none"> <li>• <b>Fusarium</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<hr/>	
<b>C14-A06D</b>	<ul style="list-style-type: none"> <li>• <b>Helminthosporium</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B</b>	<b>PESTICIDES AND OTHER ANTIPARASITICS</b> 1994
<b>C14-A06E</b>	<ul style="list-style-type: none"> <li>• <b>Phytophthora</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B01</b>	<p><b>Pesticide general</b> This code is applied only when type is unspecified or general. 1994 <i>Previous code(s): C12-N01</i></p>
<b>C14-A06F</b>	<ul style="list-style-type: none"> <li>• <b>Pythium</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B02</b>	<p><b>Antiparasitic general</b> This code is applied only when type is unspecified or general. 1994 <i>Previous code(s): C12-B04</i></p>
<b>C14-A06G</b>	<ul style="list-style-type: none"> <li>• <b>Rhizoctonia</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B02X</b>	<ul style="list-style-type: none"> <li>• <b>Combating resistant parasites</b> 2020</li> </ul>
<b>C14-A06H</b>	<ul style="list-style-type: none"> <li>• <b>Sclerotinia</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B03</b>	<p><b>Vermicide, antihelminthic general and other</b> 1994 <i>Previous code(s): C12-B02</i></p>
<b>C14-A06J</b>	<ul style="list-style-type: none"> <li>• <b>Sclerotium</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B03A</b>	<ul style="list-style-type: none"> <li>• <b>Nematocide</b> Including threadworm. 1994 <i>Previous code(s): C12-B02</i></li> </ul>
<b>C14-A06K</b>	<ul style="list-style-type: none"> <li>• <b>Septoria</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B03B</b>	<ul style="list-style-type: none"> <li>• <b>Schistosomicide</b> 1994 <i>Previous code(s): C12-B06</i></li> </ul>
<b>C14-A06L</b>	<ul style="list-style-type: none"> <li>• <b>Venturia</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B03C</b>	<ul style="list-style-type: none"> <li>• <b>Tapeworm</b> 1994 <i>Previous code(s): C12-B02</i></li> </ul>
<b>C14-A06M</b>	<ul style="list-style-type: none"> <li>• <b>Verticillium</b> 1994 <i>Previous code(s): C12-A02C</i></li> </ul>	<b>C14-B03D</b>	<ul style="list-style-type: none"> <li>• <b>Distomicide, other fluke</b> 2005</li> </ul>

<b>C14-B03X</b>	<ul style="list-style-type: none"> <li>• <b>Combating resistant worms and helminths general</b> This code is applied in conjunction with one or more codes from section C14-B03.</li> </ul>	<b>C14-B04B9</b>	<ul style="list-style-type: none"> <li>.. <b>Siphonaptera</b> Includes flea killing.</li> </ul>
	2018		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04</b>	<ul style="list-style-type: none"> <li><b>Arthropodicide general and other</b> Includes crustacicide, arachnicide.</li> </ul>	<b>C14-B04X</b>	<ul style="list-style-type: none"> <li>• <b>Combating resistant arthropods</b> This code is applied in conjunction with one or more codes from section C14-B04.</li> </ul>
	1994		2013
			<i>Previous code(s): C12-N01</i>
<b>C14-B04A</b>	<ul style="list-style-type: none"> <li>• <b>Acaricide</b> Includes miticides, tickicides.</li> </ul>	<b>C14-B05</b>	<ul style="list-style-type: none"> <li><b>Arthropod repellent</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites.</li> </ul>
	1994		1994
			<i>Previous code(s): C12-B04</i>
<b>C14-B04B</b>	<ul style="list-style-type: none"> <li>• <b>Insecticide general and other</b></li> </ul>	<b>C14-B06</b>	<ul style="list-style-type: none"> <li><b>Arthropod repellent</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites.</li> </ul>
	1994		1994
			<i>Previous code(s): C12-L06</i>
<b>C14-B04B1</b>	<ul style="list-style-type: none"> <li>.. <b>Coleoptera</b> Covers beetle killing.</li> </ul>	<b>C14-B06</b>	<ul style="list-style-type: none"> <li><b>Arthropod attractant (pheromone)</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites.</li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B2</b>	<ul style="list-style-type: none"> <li>.. <b>Dictyoptera</b> Covers cockroach killing and termite killing.</li> </ul>	<b>C14-B07</b>	<ul style="list-style-type: none"> <li><b>Arthropod sterilant</b> Covers insects, crustaceans, arachnids, millipedes, ticks and mites.</li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B3</b>	<ul style="list-style-type: none"> <li>.. <b>Diptera</b> Includes house fly, gnat, and mosquito killing.</li> </ul>	<b>C14-B08</b>	<ul style="list-style-type: none"> <li><b>Antilichen</b></li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B4</b>	<ul style="list-style-type: none"> <li>.. <b>Ephemeroptera</b> Includes mayfly killing.</li> </ul>	<b>C14-B09</b>	<ul style="list-style-type: none"> <li><b>Rodenticide</b></li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B5</b>	<ul style="list-style-type: none"> <li>.. <b>Hemiptera</b> Includes aphid (greenfly) killing.</li> </ul>	<b>C14-B10</b>	<ul style="list-style-type: none"> <li><b>Avicide</b></li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B6</b>	<ul style="list-style-type: none"> <li>.. <b>Hymenoptera</b> Includes bee, wasp and ant killing.</li> </ul>	<b>C14-B11</b>	<ul style="list-style-type: none"> <li><b>Piscicide</b></li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B7</b>	<ul style="list-style-type: none"> <li>.. <b>Lepidoptera</b> Covers butterfly and moth killing.</li> </ul>	<b>C14-B12</b>	<ul style="list-style-type: none"> <li><b>Molluscicide</b> Includes gastropodicide, slug, snail, bivalve, octopus killing.</li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
<b>C14-B04B8</b>	<ul style="list-style-type: none"> <li>.. <b>Orthoptera</b> Covers locust killing.</li> </ul>	<b>C14-B13</b>	<ul style="list-style-type: none"> <li><b>Animal repellent (other than insect)</b></li> </ul>
	1994		1994
			<i>Previous code(s): C12-N02</i>
		<b>C14-B14</b>	<ul style="list-style-type: none"> <li><b>Lures, baits (other than insect pheromones)</b></li> </ul>
			1994
			<i>Previous code(s): C12-N03</i>
		<b>C14-B15</b>	<ul style="list-style-type: none"> <li><b>Antifouling</b></li> </ul>
			1994
			<i>Previous code(s): C12-A08</i>

<b>C14-C</b>	<b>ANESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN</b>	<b>1994</b>	<b>C14-D</b>	<b>HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS</b>	<b>1994</b>
<b>C14-C01</b>	<b>Analgesic</b> This code is used when the action of the analgesic is very wide or unspecified. A more specific code is applied where possible e.g. analgesic for treating dysmenorrhea only is coded under C14-N14 only.	<b>1994</b>		Codes marked * are also used for agonist/mimetic or receptor agonist/mimetic activities. Codes marked ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities e.g. aldosterone receptor antagonist is coded C14-D02A1. See section C14-L for other agonist/antagonist activities.	
	<i>Previous code(s): C12-D01</i>		<b>C14-D01</b>	<b>Hormonal general and other*</b>	<b>1994</b>
<b>C14-C02</b>	<b>Antigout</b>	<b>1994</b>		<i>Previous code(s): C12-G04</i>	
	<i>Previous code(s): C12-D07, C12-G03</i>		<b>C14-D01A</b>	. <b>Androgenic*</b>	<b>1994</b>
<b>C14-C03</b>	<b>Antiinflammatory general</b> This code is used for treatment of general edema or inflammation. Specific inflammation treatments are coded elsewhere when possible e.g. Bronchitis is coded C14-K01 only, colitis as C14-E01C only etc.	<b>1994</b>		<i>Previous code(s): C12-G04B</i>	
	<i>Previous code(s): C12-D07</i>		<b>C14-D01B</b>	. <b>Estrogenic*</b>	<b>1994</b>
<b>C14-C04</b>	<b>Antipyretic</b>	<b>1994</b>		<i>Previous code(s): C12-G04C</i>	
	<i>Previous code(s): C12-D08</i>		<b>C14-D01C</b>	. <b>Progestational*</b>	<b>1994</b>
<b>C14-C05</b>	<b>Antihypothermia</b>	<b>1994</b>		<i>Previous code(s): C12-G04D</i>	
	<i>Previous code(s): C12-D08</i>		<b>C14-D01D</b>	. <b>Other steroid*</b>	<b>1994</b>
<b>C14-C06</b>	<b>Antirheumatic</b>	<b>1994</b>		<i>Previous code(s): C12-G04</i>	
	<i>Previous code(s): C12-D09</i>		<b>C14-D01E</b>	. <b>Peptide hormone activity*</b>	<b>1994</b>
<b>C14-C07</b>	<b>General anesthetic</b>	<b>1994</b>		<i>Previous code(s): C12-G04</i>	
	<i>Previous code(s): C12-C01</i>		<b>C14-D01E1</b>	.. <b>Melanocortin agonist</b> Adrenocorticotrophic hormone agonist.	<b>2005</b>
<b>C14-C08</b>	<b>Local anesthetic</b>	<b>1994</b>			
	<i>Previous code(s): C12-C02</i>		<b>C14-D01E2</b>	.. <b>Melanin concentrating hormone agonist</b>	<b>2005</b>
<b>C14-C09</b>	<b>Antiarthritic general and other</b>	<b>1994</b>			
	<i>Previous code(s): C12-D03</i>		<b>C14-D02</b>	<b>Antihormonal general and other**</b>	<b>1994</b>
<b>C14-C09A</b>	. <b>Osteoarthritis</b>	<b>1994</b>		<i>Previous code(s): C12-G01A</i>	
	<i>Previous code(s): C12-D03</i>		<b>C14-D02A</b>	. <b>Antisteroid general and other**</b>	<b>1994</b>
<b>C14-C09B</b>	. <b>Rheumatoid arthritis</b>	<b>1994</b>		<i>Previous code(s): C12-G01A</i>	
	<i>Previous code(s): C12-D03</i>		<b>C14-D02A1</b>	.. <b>Antialdosterone**</b>	<b>1994</b>
				<i>Previous code(s): C12-G01A</i>	
			<b>C14-D02A2</b>	.. <b>Anticholesterol**</b>	<b>1994</b>
				<i>Previous code(s): C12-H03</i>	
			<b>C14-D02A3</b>	.. <b>Antiestrogenic</b> This code also covers estrogenic antagonist/inhibitor activity and estrogen receptor antagonist/inhibitor activities.	<b>2005</b>

<b>C14-D02A4</b>	.. <b>Antiprogestational</b> This code also covers progestational antagonist/inhibitor activity and progestational receptor antagonist/inhibitor activities. 2005	<b>C14-D06A</b>	. <b>AntiDNA/RNA polymerase</b> 1994 <i>Previous code(s): C12-G01B2</i>
<b>C14-D02A5</b>	.. <b>Antiandrogenic</b> This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities. 2005	<b>C14-D06B</b>	. <b>Antireverse transcriptase</b> 1994 <i>Previous code(s): C12-G01B2</i>
<b>C14-D02A6</b>	.. <b>Other antisteroid hormone</b> This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities. 2005	<b>C14-D06C</b>	. <b>Antikinase</b> 2005
<b>C14-D02B</b>	. <b>Antipeptide hormone**</b> 1994 <i>Previous code(s): C12-G01A</i>	<b>C14-D07</b>	<b>Antihydrolases general and other</b> 1994 <i>Previous code(s): C12-G01B3</i>
<b>C14-D02B1</b>	.. <b>Melanocortin antagonist</b> 2005	<b>C14-D07A</b>	. <b>Antiesterases</b> Including lipase, nuclease, restriction enzyme, sulfatase, phosphatase inhibitors. 1994 <i>Previous code(s): C12-G01B3</i>
<b>C14-D02B2</b>	.. <b>Melanin concentrating hormone antagonist</b> 2005	<b>C14-D07A1</b>	.. <b>Antiphosphodiesterases</b> 2005
<b>C14-D03</b>	<b>Enzyme inhibitors general and other</b> 1994 <i>Previous code(s): C12-G01B</i>	<b>C14-D07B</b>	. <b>Antiglycosidases</b> Including amylase, cellulase, lactase inhibitors. 1994 <i>Previous code(s): C12-G01B3</i>
<b>C14-D04</b>	<b>Coenzyme inhibitors</b> 1994 <i>Previous code(s): C12-G01B</i>	<b>C14-D07C</b>	. <b>Antiproteases, antipeptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, renin, collagenase, elastase inhibitors. Renin inhibitor used as hypotensive is coded C14-F02B1 only. 1994 <i>Previous code(s): C12-G01B3</i>
<b>C14-D05</b>	<b>Antioxidoreductases general and other</b> 1994 <i>Previous code(s): C12-G01B1</i>	<b>C14-D07C1</b>	.. <b>Antimetalloproteases</b> 2005
<b>C14-D05A</b>	. <b>Antioxidases</b> 1994 <i>Previous code(s): C12-G01B1</i>	<b>C14-D08</b>	<b>Antilyases</b> Including adenylyl cyclase, (de)carboxylase, aldolase, dehydratase inhibitors. 1994 <i>Previous code(s): C12-G01B4</i>
<b>C14-D05B</b>	. <b>Antiperoxidases</b> 1994 <i>Previous code(s): C12-G01B1</i>	<b>C14-D09</b>	<b>Antisomerases</b> Including racemase, tautomerase, epimerase, mutase inhibitors. 1994 <i>Previous code(s): C12-G01B5</i>
<b>C14-D05C</b>	. <b>Antioxygenases</b> 1994 <i>Previous code(s): C12-G01B1</i>	<b>C14-D10</b>	<b>Antiligases</b> Including synthetase, some carboxylase inhibitors. 1994 <i>Previous code(s): C12-G01B6</i>
<b>C14-D05D</b>	. <b>Antidehydrogenases, Antireductases</b> 1994 <i>Previous code(s): C12-G01B1</i>		
<b>C14-D06</b>	<b>Antitransferases general and other</b> Includes HIV integrase inhibitor. 1994 <i>Previous code(s): C12-G01B2</i>		

<b>C14-E</b>	<b>DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM</b>	1994	<b>C14-E10E</b>	. <b>Gastrointestinal flora</b>	2008
<b>C14-E01</b>	<b>Antacid</b>	1994	<b>C14-E11</b>	<b>Anabolic, anorexia treatment general</b>	1994
	<i>Previous code(s): C12-J03</i>			<i>Previous code(s): C12-J01</i>	
<b>C14-E02</b>	<b>Antidiarrheal</b>	1994	<b>C14-E11A</b>	. <b>Anorexia</b>	2005
	<i>Previous code(s): C12-J04</i>		<b>C14-E11B</b>	. <b>Cachexia</b>	
<b>C14-E03</b>	<b>Antiflatulent</b>	1994		Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	2005
	<i>Previous code(s): C12-J03</i>		<b>C14-E11C</b>	. <b>Malnutrition</b>	2005
<b>C14-E04</b>	<b>Antihemorrhoidal</b>	1994	<b>C14-E11D</b>	. <b>Bulimia</b>	2005
	<i>Previous code(s): C12-J04</i>		<b>C14-E12</b>	<b>Anorectic, obesity treatment (appetite depressant)</b>	1994
<b>C14-E05</b>	<b>Antiemetic</b>	1994		<i>Previous code(s): C12-J02</i>	
	<i>Previous code(s): C12-D05</i>		<b>C14-F</b>	<b>DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM</b>	
<b>C14-E06</b>	<b>Emetic</b>	1994		The codes marked with * are also used for agonist/mimetic or receptor agonist/mimetic activities. The codes marked with ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities. See section C14-L for other agonist/antagonist activities.	1994
	<i>Previous code(s): C12-J06</i>		<b>C14-F01</b>	<b>Cardioactive general and other</b>	1994
<b>C14-E07</b>	<b>Gastric secretion inhibitor</b>	1994		<i>Previous code(s): C12-F01</i>	
	<i>Previous code(s): C12-J02</i>		<b>C14-F01A</b>	. <b>Antiarrhythmic</b>	1994
<b>C14-E08</b>	<b>Ulcer treatment (peptic, gastric, duodenal)</b>	1994		<i>Previous code(s): C12-F01A</i>	
	Skin ulcers are coded C14-N17H.		<b>C14-F01B</b>	. <b>Cardiac stimulant</b>	
	<i>Previous code(s): C12-E08</i>			Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment.	1994
<b>C14-E09</b>	<b>Laxative</b>	1994		<i>Previous code(s): C12-F01B</i>	
	<i>Previous code(s): C12-J07</i>		<b>C14-F01C</b>	. <b>Cardiac depressant</b>	1994
<b>C14-E10</b>	<b>Gastrointestinal dysfunction general and other</b>	1994		<i>Previous code(s): C12-F01C</i>	
	<i>Previous code(s): C12-J01</i>		<b>C14-F01D</b>	. <b>Antianginal</b>	1994
<b>C14-E10A</b>	. <b>Esophageal</b>	1994		<i>Previous code(s): C12-F02</i>	
	<i>Previous code(s): C12-J01</i>		<b>C14-F01E</b>	. <b>Coronary dilator, coronary ischemia treatment</b>	1994
<b>C14-E10B</b>	. <b>Gastric</b>	1994		<i>Previous code(s): C12-F02</i>	
	Includes gastritis.				
	<i>Previous code(s): C12-J01</i>				
<b>C14-E10C</b>	. <b>Bowel</b>	1994			
	Including irritable and inflammatory bowel (e.g. IBS).				
	<i>Previous code(s): C12-J01</i>				
<b>C14-E10C1</b>	.. <b>Inflammatory bowel conditions</b>	2005			
<b>C14-E10D</b>	. <b>Dysentery</b>	1994			
	<i>Previous code(s): C12-B01, C12-A01, C12-A06, C12-J04, C12-J05</i>				

<b>C14-F01F</b>	. <b>Ganglion blocker</b>	1994	<b>C14-F03</b>	<b>Antianemic</b>	1994
	<i>Previous code(s): C12-F03</i>			This code covers treatment of blood cell ratio imbalance.	
<b>C14-F01G</b>	. <b>Restenosis treatment</b>	2002		<i>Previous code(s): C12-H01</i>	
<b>C14-F02</b>	<b>Circulatory active general and other</b>	1994	<b>C14-F04</b>	<b>Anticoagulant, antiaggregants, thrombolytic</b>	1994
	<i>Previous code(s): C12-E01</i>			<i>Previous code(s): C12-H02</i>	
<b>C14-F02A</b>	. <b>Hypertensive (calcium agonists)*</b>	1994	<b>C14-F05</b>	<b>Reperfusion treatment</b>	1994
	<i>Previous code(s): C12-F04</i>		<b>C14-F06</b>	<b>Antilipemic</b>	1994
<b>C14-F02B</b>	. <b>Hypotensive general and other</b>	1994		<i>Previous code(s): C12-H03</i>	
	<i>Previous code(s): C12-F05</i>		<b>C14-F06A</b>	. <b>Dyslipidemia</b>	2005
<b>C14-F02B1</b>	.. <b>Angiotensin converting enzyme inhibitor, angiotensin antagonists**</b>	1994	<b>C14-F06B</b>	. <b>Hypertriglyceremia</b>	2011
	This code is also applied to renin inhibitor when it is used as hypotensive.		<b>C14-F07</b>	<b>Antiartherosclerotic</b>	1994
	<i>Previous code(s): C12-F05A</i>			Includes atherosclerosis.	
<b>C14-F02B2</b>	.. <b>Calcium antagonists/entry blockers**</b>	1994		<i>Previous code(s): C12-H03</i>	
	<i>Previous code(s): C12-F05B, C12-G01</i>		<b>C14-F08</b>	<b>Coagulant</b>	1994
<b>C14-F02C</b>	. <b>Vasoconstrictor</b>	1994		<i>Previous code(s): C12-H04</i>	
	<i>Previous code(s): C12-F06</i>		<b>C14-F09</b>	<b>Hypoglycaemic</b>	1994
<b>C14-F02D</b>	. <b>Vasodilator, general ischemia treatment</b>	1994		Treatment of diabetic symptoms is coded C14-S04.	
	<i>Previous code(s): C12-F07</i>			<i>Previous code(s): C12-H05</i>	
<b>C14-F02D1</b>	.. <b>Cerebral ischemia treatment</b>	1994	<b>C14-F10</b>	<b>Hyperglycaemic</b>	1994
	<i>Previous code(s): C12-F07, C12-C10</i>			<i>Previous code(s): C12-H05</i>	
<b>C14-F02D2</b>	.. <b>Pulmonary ischemia treatment</b>	1994	<b>C14-F11</b>	<b>Plasma and blood substitutes</b>	1994
	<i>Previous code(s): C12-K06</i>			<i>Previous code(s): C12-H06</i>	
<b>C14-F02E</b>	. <b>Lymphatic disease treatment</b>	1994	<hr/>		
	<i>Previous code(s): C12-G03</i>		<b>C14-G</b>	<b>DRUGS ACTING ON THE IMMUNE SYSTEM</b>	1994
<b>C14-F02F</b>	. <b>Peripheral vascular disorder/angiogenic general</b>	2002	<b>C14-G01</b>	<b>Immunostimulant general and other</b>	1994
				<i>Previous code(s): C12-A01, C12-A06</i>	
<b>C14-F02F1</b>	.. <b>Angiogenic</b>	2002	<b>C14-G01A</b>	. <b>Interferon inducing</b>	1994
				This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	
<b>C14-F02F2</b>	.. <b>Anti-angiogenic</b>	2002		<i>Previous code(s): C12-A06</i>	
			<b>C14-G01B</b>	. <b>AIDS treatment</b>	1994
<b>C14-F02F3</b>	.. <b>Peripheral vascular disorder</b>	2002		A drug which combats HIV is coded C14-A02B1.	
				<i>Previous code(s): C12-A06</i>	

<b>C14-G02</b>	<b>Immunosuppressant general and other</b>	1994	<b>C14-H01E1</b>	.. Colon cancers	2005
	<i>Previous code(s): C12-D02B</i>		<b>C14-H01E2</b>	.. Esophageal cancers	2005
<b>C14-G02A</b>	. <b>Antiallergic</b>	1994	<b>C14-H01E3</b>	.. Gall bladder cancers	2005
	<i>Previous code(s): C12-D02</i>		<b>C14-H01E4</b>	.. Intestinal cancers	2005
<b>C14-G02B</b>	. <b>Antianaphylactic</b>	1994	<b>C14-H01E5</b>	.. Hepatic cancers	2005
	<i>Previous code(s): C12-D02D</i>		<b>C14-H01E6</b>	.. Pancreatic cancers	2005
<b>C14-G02C</b>	. <b>Graft/transplant rejection treatment</b>	1994	<b>C14-H01E7</b>	.. Rectal cancers	2005
	<i>Previous code(s): C12-D02B</i>		<b>C14-H01E8</b>	.. Stomach cancers	2005
<b>C14-G02D</b>	. <b>Autoimmune disease treatment</b>	1994	<b>C14-H01F</b>	. <b>Genitourinary cancers</b>	2005
	<i>Previous code(s): C12-D02A</i>		<b>C14-H01F1</b>	.. Cervical/uterine cancers	2005
<b>C14-G03</b>	<b>Immunomodulatory</b>	1994	<b>C14-H01F2</b>	.. Kidney cancers	2005
	<i>Previous code(s): C12-A01, C12-A06, C12-D02B</i>		<b>C14-H01F3</b>	.. Ovarian cancers	2005
<b>C14-H</b>	<b>CANCER RELATED DRUGS</b>		<b>C14-H01F4</b>	.. Prostate cancers	2005
	Codes from sections C14-H01D - H01Z are now structured within the hierarchy C14-H01D to C14-H01L below. All document records containing codes introduced in 2005 will be changed to reflect the updated 2006 hierarchy and codes C14-H01M to C14-H01Z will no longer be searchable.	1994	<b>C14-H01F5</b>	.. Testicular cancers	2005
<b>C14-H01</b>	<b>Anticancer general and other</b>	1994	<b>C14-H01F6</b>	.. Bladder cancers	2005
	<i>Previous code(s): C12-G07</i>		<b>C14-H01G</b>	. <b>Immunological cancers</b>	2005
<b>C14-H01A</b>	. <b>Leukemia treatment</b>	1994	<b>C14-H01G1</b>	.. Hodgkin's lymphoma	2005
	<i>Previous code(s): C12-G05</i>		<b>C14-H01G2</b>	.. Non-Hodgkin's lymphoma	2005
<b>C14-H01B</b>	. <b>Antiproliferative, inhibitor of cell division, cytostatic, cytoprotective</b>	1994	<b>C14-H01H</b>	. <b>Musculoskeletal cancers</b>	2005
	<i>Previous code(s): C12-D07, C12-E08, C12-G07</i>		<b>C14-H01H1</b>	.. Osteocancers	2005
<b>C14-H01C</b>	. <b>Dermatological cancers</b>	2005	<b>C14-H01H2</b>	.. Sarcoma	2005
<b>C14-H01D</b>	. <b>Endocrine cancers</b>	2005	<b>C14-H01J</b>	. <b>Neurological cancers</b>	2005
<b>C14-H01D1</b>	.. <b>Breast cancers</b>	2005	<b>C14-H01J1</b>	.. Brain tumours	2005
<b>C14-H01D2</b>	.. <b>Thyroid cancers</b>	2005	<b>C14-H01K</b>	. <b>Oral and respiratory cancers</b>	2005
<b>C14-H01E</b>	. <b>Gastrointestinal cancers</b>	2005	<b>C14-H01K1</b>	.. <b>Buccal cavity and pharynx cancers</b>	2005
			<b>C14-H01K2</b>	.. <b>Larynx cancers</b>	2005



<b>C14-H01K3</b>	<b>.. Lung cancers</b>	<b>2005</b>	<b>C14-J01</b>	<b>CNS active general and other</b>	<b>1994</b>
<b>C14-H01L</b>	<b>. Other cancers</b>	<b>2005</b>		Covers terms such as cerebroprotective and neuroprotective.	
<b>C14-H01L1</b>	<b>.. Multiple myelomas</b>	<b>2005</b>		<i>Previous code(s): C12-C10</i>	
<b>C14-H02</b>	<b>Mutagen, carcinogen</b>	<b>1994</b>	<b>C14-J01A</b>	<b>. Stimulants general and other</b>	<b>1994</b>
	<i>Previous code(s): C12-G07</i>			<i>Previous code(s): C12-C06</i>	
<b>C14-H03</b>	<b>Apoptotic</b>	<b>2002</b>	<b>C14-J01A1</b>	<b>.. Antidepressant</b>	<b>1994</b>
<b>C14-H04</b>	<b>Anti-apoptotic</b>	<b>2002</b>		<i>Previous code(s): C12-C06</i>	
<b>C14-H05</b>	<b>Antiproliferative (non-cancerous)</b>	<b>2006</b>	<b>C14-J01A2</b>	<b>.. Analeptic</b>	<b>1994</b>
	e.g. hyperplasia.			<i>Previous code(s): C12-C03</i>	
<b>C14-H06</b>	<b>Tumor sensitizers</b>	<b>2008</b>	<b>C14-J01A3</b>	<b>.. Antiparkinsonian</b>	<b>1994</b>
	Search when sensitizer type is not specified.			<i>Previous code(s): C12-C04</i>	
<b>C14-H06A</b>	<b>. Radiosensitizers</b>	<b>2016</b>	<b>C14-J01A4</b>	<b>.. Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, anti-amnesia, nootropics</b>	<b>1994</b>
<b>C14-H06B</b>	<b>. Photosensitizers</b>	<b>2016</b>		<i>Previous code(s): C12-C10, C12-G04A</i>	
<b>C14-H06C</b>	<b>. Chemosensitizers</b>	<b>2021</b>	<b>C14-J01B</b>	<b>. Depressants general and other</b>	<b>1994</b>
<b>C14-H06D</b>	<b>. Sonosensitizers</b>	<b>2023</b>		<i>Previous code(s): C12-C05</i>	
<b>C14-H07</b>	<b>Hypoplasia and aplasia</b>	<b>2016</b>	<b>C14-J01B1</b>	<b>.. Hypnotic</b>	<b>1994</b>
	To be searched in the general case where the affected organ(s) are not specified.			<i>Previous code(s): C12-C07</i>	
<b>C14-H00X</b>	<b>Treatment resistant cancers</b>	<b>2014</b>	<b>C14-J01B2</b>	<b>.. Sedative</b>	<b>1994</b>
	To be applied in conjunction with other code(s) from C14-H where the cancer(s) to be treated are stated to be drug-, radiotherapy- and/or chemotherapy resistant.			<i>Previous code(s): C12-C08</i>	
<b>C14-J</b>	<b>DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS</b>		<b>C14-J01B3</b>	<b>.. Antipsychotic, neuroleptic, antischizophrenic</b>	<b>1994</b>
	Codes marked * are also used for agonist/mimetic or receptor agonist/mimetic activities e.g. dopamine receptor agonist is coded dopaminergic C14-J02C2. Codes marked ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities.			<i>Previous code(s): C12-C10, C12-E02</i>	
	<b>1994</b>		<b>C14-J01B4</b>	<b>.. Tranquilliser, anxiolytic</b>	<b>1994</b>
				<i>Previous code(s): C12-C10</i>	
			<b>C14-J02</b>	<b>Autonomic NS active general and other</b>	<b>1994</b>
				<i>Previous code(s): C12-E01</i>	
			<b>C14-J02A</b>	<b>. Parasympathetic stimulants, mimetics general and other*</b>	<b>1994</b>
				<i>Previous code(s): C12-E05</i>	
			<b>C14-J02A1</b>	<b>.. Cholinergic (acetyl choline potentiators)*</b>	<b>1994</b>
				<i>Previous code(s): C12-E05</i>	
			<b>C14-J02A2</b>	<b>.. Muscarinic*</b>	<b>1994</b>
				<i>Previous code(s): C12-E05</i>	

<b>C14-J02B</b>	. <b>Parasympathetic depressant, parasympatholytic general and other**</b>	1994	<i>Previous code(s): C12-E04</i>	<b>C14-J05D</b>	. <b>Antispastic, antispasmodic, spasmolytic, spasm treatment</b>	1994	<i>Previous code(s): C12-E02, C12-E04</i>
<b>C14-J02B1</b>	.. <b>Anticholinergic**</b>	1994	<i>Previous code(s): C12-E04</i>	<b>C14-J05E</b>	. <b>Duchenne's muscular dystrophy treatment</b>	2002	
<b>C14-J02B2</b>	.. <b>Antimuscarinic**</b>	1994	<i>Previous code(s): C12-E04</i>	<b>C14-J06</b>	<b>Convulsant</b>	1994	<i>Previous code(s): C12-D10</i>
<b>C14-J02C</b>	. <b>Sympathetic stimulants general and other**</b>	1994	<i>Previous code(s): C12-E07</i>	<b>C14-J07</b>	<b>Anticonvulsant</b>	1994	<i>Previous code(s): C12-D04</i>
<b>C14-J02C1</b>	.. <b>Adrenergic, adrenaline potentiator (alpha and beta)*</b>	1994	<i>Previous code(s): C12-E07</i>	<b>C14-K</b>	<b>DRUGS ACTING ON THE RESPIRATORY SYSTEM</b>	1994	
<b>C14-J02C2</b>	.. <b>Dopaminergic*</b>	1994	<i>Previous code(s): C12-E07</i>	<b>C14-K01</b>	<b>Respiratory active general and other</b>	1994	Including anoxia, cystic fibrosis and bronchitis treatment. <i>Previous code(s): C12-K06</i>
<b>C14-J02D</b>	. <b>Sympathetic depressants, sympatholytic general and other**</b>	1994	<i>Previous code(s): C12-E06</i>	<b>C14-K01A</b>	. <b>Antiasthmatic</b>	1994	<i>Previous code(s): C12-D02, C12-K02</i>
<b>C14-J02D1</b>	.. <b>Alpha-adrenergic blocker**</b>	1994	<i>Previous code(s): C12-E06A</i>	<b>C14-K01B</b>	. <b>Antitussive</b>	1994	<i>Previous code(s): C12-K01</i>
<b>C14-J02D2</b>	.. <b>Beta-adrenergic blocker**</b>	1994	<i>Previous code(s): C12-E06B</i>	<b>C14-K01C</b>	. <b>Bronchoconstrictor</b>	1994	<i>Previous code(s): C12-K06</i>
<b>C14-J02D3</b>	.. <b>Antidopaminergic*</b>	1994	<i>Previous code(s): C12-E06</i>	<b>C14-K01D</b>	. <b>Bronchodilator</b>	1994	<i>Previous code(s): C12-K02</i>
<b>C14-J03</b>	<b>Serotonergic*</b>	1994	<i>Previous code(s): C12-G04</i>	<b>C14-K01E</b>	. <b>Decongestant, expectorant, mucolytic</b>	1994	From 2006, the scope of this code has been extended to cover decongestants in addition to expectorants and mucolytics. <i>Previous code(s): C12-K05</i>
<b>C14-J04</b>	<b>Antiserotonergic**</b>	1994	<i>Previous code(s): C12-G01</i>	<b>C14-K01F</b>	. <b>Adult respiratory distress syndrome (ARDS)</b>	2002	
<b>C14-J05</b>	<b>Muscular active general and other (inotropic)</b>	1994	<i>Previous code(s): C12-E02</i>	<b>C14-L</b>	<b>AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE</b>	1994	The codes in this section are also used for receptor agonists/mimetics and receptor antagonists/mimetics, e.g. histamine receptor agonist is coded C14-L05.
<b>C14-J05A</b>	. <b>Muscle relaxant (negatively inotropic)</b>	1994	<i>Previous code(s): C12-E02</i>				
<b>C14-J05B</b>	. <b>Mydriatic/myopic/hyperopic</b>	1994	<i>Previous code(s): C12-E03</i>				
<b>C14-J05C</b>	. <b>Muscle contractant (positively inotropic)</b>	1994	<i>Previous code(s): C12-E02</i>				

<b>C14-L01</b>	<b>Agonist/mimetic general and other</b>	1994	<b>C14-L08</b>	<b>Prostaglandin, leukotriene, thromboxane antagonist/inhibitor</b>	1994
<b>C14-L01A</b>	. <b>Enzyme agonist/mimetic</b>	2005		<i>Previous code(s): C12-G01</i>	
<b>C14-L01A1</b>	.. <b>Oxidoreductase agonist</b>	2007	<b>C14-L09</b>	<b>Histamine antagonist/inhibitor general and other</b>	1994
<b>C14-L01A2</b>	.. <b>Transferase agonist</b>	2007		<i>Previous code(s): C12-D06</i>	
<b>C14-L01A3</b>	.. <b>Hydrolase agonist</b>	2007	<b>C14-L10</b>	<b>H1 antagonist/inhibitor</b>	1994
<b>C14-L01A4</b>	.. <b>Lyase agonist</b>	2007		<i>Previous code(s): C12-D06B</i>	
<b>C14-L01A5</b>	.. <b>Isomerase agonist</b>	2007	<b>C14-L11</b>	<b>H2 antagonist/inhibitor</b>	1994
<b>C14-L01A6</b>	.. <b>Synthetase agonist</b>	2007		<i>Previous code(s): C12-D06A</i>	
<b>C14-L01B</b>	. <b>Cannabinoid agonist</b>	2006	<b>C14-L12</b>	<b>Proton pump inhibitors</b>	2006
<b>C14-L01C</b>	. <b>PPAR agonist</b> Peroxisome proliferator-activated receptor agonist.	2006		<i>Previous code(s): C14-L06</i>	
<b>C14-L01D</b>	. <b>Nitric oxide agonist</b>	2007	<b>C14-M</b>	<b>ANTIDOTES</b>	1994
<b>C14-L02</b>	<b>Angiotensin agonist/mimetic</b> N.B. Angiotensin antagonists/inhibitors are coded C14-F02B1.	1994		<i>Previous code(s): C12-J05</i>	
<b>C14-L03</b>	<b>Interleukin agonist/mimetic</b>	1994	<b>C14-M01</b>	<b>Antidote general and other</b> To be searched for treating chronic and habitual conditions: treating acute intoxication is searched under C14-M03.	1994
<b>C14-L04</b>	<b>Prostaglandin, leukotriene, thromboxane agonist/mimetic</b>	1994		<i>Previous code(s): C12-J05</i>	
<b>C14-L05</b>	<b>Histaminergic, histamine agonist/mimetic</b>	1994	<b>C14-M01A</b>	. <b>Alcoholism treatment</b>	1994-2006
<b>C14-L06</b>	<b>Antagonist, inhibitor, antimetabolite general and other</b>	1994		<i>Previous code(s): C12-J05A</i>	
<b>C14-L06B</b>	. <b>Cannabinoid antagonist</b>	2006	<b>C14-M01B</b>	. <b>Antismoking</b>	1994-2006
<b>C14-L06C</b>	. <b>PPAR antagonist</b> Peroxisome proliferator-activated receptor antagonist.	2006		<i>Previous code(s): C12-J05B</i>	
<b>C14-L06D</b>	. <b>Nitric oxide antagonist</b>	2007	<b>C14-M01C</b>	. <b>Antidrug addiction</b>	1994-2006
<b>C14-L07</b>	<b>Interleukin antagonist/inhibitor</b>	1994		<i>Previous code(s): C12-J05</i>	
	<i>Previous code(s): C12-G01</i>		<b>C14-M01D</b>	. <b>Antiheavy metal poisoning</b>	1994
				<i>Previous code(s): C12-J05C</i>	
			<b>C14-M01E</b>	. <b>Pesticide/herbicide antidote</b> Includes herbicide safeners prior to 2009.	1994
				<i>Previous code(s): C12-J05D</i>	
			<b>C14-M01F</b>	. <b>Protecting plants from poisons</b>	1994
				<i>Previous code(s): C12-J05E</i>	
			<b>C14-M02</b>	<b>Agrochemical antidote general</b>	2006
			<b>C14-M02A</b>	. <b>Chemoprotectant</b>	2006
			<b>C14-M02B</b>	. <b>Radioprotectant</b>	2006

<b>C14-M03</b>	<b>Recreational drug antidote general and unspecified</b> To be searched for treating acute intoxication, treating chronic conditions is searched under C14-M01.	2016	<b>C14-N06A</b>	<b>. Anticaries/antiplaque</b>	1994 <i>Previous code(s): C12-A01, C12-L03</i>
<b>C14-M03A</b>	<b>. Sobering agent for acute alcohol intoxication</b>	2016	<b>C14-N06B</b>	<b>. Periodontal</b>	1994 <i>Previous code(s): C12-L03, C12-L04</i>
<b>C14-M03B</b>	<b>. Antidote for acute recreational drug intoxication other than alcohol</b>	2016	<b>C14-N07</b>	<b>Urogenital/anorectal disease treatment general and other</b>	1994 <i>Previous code(s): C12-A05, C12-D07, C12-G03, C12-G04</i>
<b>C14-N</b>	<b>ORGANS</b>	1994	<b>C14-N07A</b>	<b>. Prostate</b>	1994 <i>Previous code(s): C12-G03, C12-G04</i>
<b>C14-N01</b>	<b>Bone disorder treatment, osteoporosis</b> <i>Previous code(s): C12-J08</i>	1994	<b>C14-N07B</b>	<b>. Cystitis</b>	1994 <i>Previous code(s): C12-D07</i>
<b>C14-N01A</b>	<b>. Osteoporosis</b>	2005	<b>C14-N07C</b>	<b>. Venereal</b>	1994 <i>Previous code(s): C12-A05</i>
<b>C14-N01B</b>	<b>. Fractures, disorders of healing and osteogenesis</b>	2005	<b>C14-N07D</b>	<b>. Incontinence treatment</b>	1994 <i>Previous code(s): C12-G03</i>
<b>C14-N02</b>	<b>Ear disorder treatment</b> <i>Previous code(s): C12-L04</i>	1994	<b>C14-N08</b>	<b>Diuretic</b>	1994 <i>Previous code(s): C12-G03</i>
<b>C14-N02A</b>	<b>. Balance related disorder and vestibular disorder</b>	2008	<b>C14-N09</b>	<b>Antidiuretic</b>	1994 <i>Previous code(s): C12-G03</i>
<b>C14-N03</b>	<b>Eye disorder treatment</b> <i>Previous code(s): C12-L04</i>	1994	<b>C14-N10</b>	<b>Kidney</b>	1994 <i>Previous code(s): C12-G03</i>
<b>C14-N03A</b>	<b>. Glaucoma</b>	2005	<b>C14-N11</b>	<b>Thyroid</b>	1994 <i>Previous code(s): C12-G06</i>
<b>C14-N04</b>	<b>Nose disorder treatment</b> <i>Previous code(s): C12-L04</i>	1994	<b>C14-N12</b>	<b>Liver</b>	1994 <i>Previous code(s): C12-G02</i>
<b>C14-N05</b>	<b>Mouth/throat disorder treatment</b>	1994	<b>C14-N13</b>	<b>Pancreas</b>	1994 <i>Previous code(s): C12-G02</i>
<b>C14-N05A</b>	<b>. Mouth disorder</b> E.g. cold sores and xerostomia (chronic dry mouth).	2005	<b>C14-N14</b>	<b>Uterus</b> Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under C14-P01B.	1994 <i>Previous code(s): C12-E09</i>
<b>C14-N05B</b>	<b>. Throat disorder</b> Covers throat disorders, but excludes disorders of the esophagus.	2005	<b>C14-N15</b>	<b>Spleen</b>	1994 <i>Previous code(s): C12-G02</i>
<b>C14-N06</b>	<b>Dental general and other</b> <i>Previous code(s): C12-L03</i>	1994			

<b>C14-N16</b>	<b>Brain and spinal cord</b> Including meningitis, encephalitis, stroke treatment. 1994 <i>Previous code(s): C12-C10, C12-E01</i>	<b>C14-P</b>	<b>DRUGS ACTING ON THE REPRODUCTIVE SYSTEM</b> 1994
<b>C14-N16A</b>	. <b>Bovine spongiform encephalopathy (BSE, "mad cow disease")</b> 2002	<b>C14-P01</b>	<b>Contraceptive general and other</b> 1994 <i>Previous code(s): C12-K03</i>
<b>C14-N16B</b>	. <b>Creutzfeld Jakob disease (CJD)</b> 2002	<b>C14-P01A</b>	. <b>Male, spermicide</b> 1994 <i>Previous code(s): C12-K03</i>
<b>C14-N16C</b>	. <b>Kuru</b> 2005	<b>C14-P01B</b>	. <b>Female, abortifacient, antiovolatory</b> 1994 <i>Previous code(s): C12-K03</i>
<b>C14-N16D</b>	. <b>Scrapie</b> A fatal degenerative disease affecting the CNS of sheep and goats. 2005	<b>C14-P02</b>	<b>Infertility treatment</b> 1994
<b>C14-N17</b>	<b>Skin treatment general and other</b> Fungal skin diseases are coded under C14-A04. 1994 <i>Previous code(s): C12-A07</i>	<b>C14-P03</b>	<b>Antiabortive</b> 1994 <i>Previous code(s): C12-E09</i>
<b>C14-N17A</b>	. <b>Burn</b> 1994 <i>Previous code(s): C12-A07</i>	<b>C14-P04</b>	<b>Sexual dysfunction</b> Sexual dysfunction general. 2006
<b>C14-N17B</b>	. <b>Wound other (physical trauma)</b> 1994 <i>Previous code(s): C12-A07</i>	<b>C14-P04A</b>	. <b>Male sexual dysfunction</b> 2006
<b>C14-N17C</b>	. <b>Psoriasis, dermatitis</b> 1994 <i>Previous code(s): C12-A07</i>	<b>C14-P04B</b>	. <b>Female sexual dysfunction</b> 2006
<b>C14-N17D</b>	. <b>Acne</b> 1994 <i>Previous code(s): C12-A07</i>	<b>C14-P05</b>	<b>Menopause/andropause and related symptoms</b> To be searched for general references to menopause or andropause where precise hormones affected are not specified. Also may be searched in conjunction with other C14 codes where a condition is specifically attributed to menopause or andropause in the original document e.g. hot flashes. 2016
<b>C14-N17E</b>	. <b>Dandruff and seborrhea</b> 2005	<b>C14-R</b>	<b>COSMETICS</b> 1994 <i>Previous code(s): C12-L02</i>
<b>C14-N17F</b>	. <b>Antiscarring</b> 2005	<b>C14-R01</b>	<b>Cosmetic general and other</b> 1994 <i>Previous code(s): C12-L02</i>
<b>C14-N17G</b>	. <b>Pruritis</b> 2008	<b>C14-R02</b>	<b>Hair preparation</b> Includes formulations for fur. 1994 <i>Previous code(s): C12-L05</i>
<b>C14-N17H</b>	. <b>Dermal ulcers</b> Also includes cold sores, which are additionally coded with C14-A02A3. 2019	<b>C14-R03</b>	<b>Antiperspirant</b> 1994 <i>Previous code(s): C12-L01</i>
<b>C14-N18</b>	<b>Mammary gland</b> Including mastitis. 2002	<b>C14-R04</b>	<b>Perfume</b> 1994 <i>Previous code(s): C12-L07</i>
<b>C14-N19</b>	<b>Nail disease treatment</b> Fungal nail diseases also search under C14-A04. 2020	<b>C14-R05</b>	<b>Sunscreen agent</b> 1994 <i>Previous code(s): C12-L08</i>

<b>C14-S</b>	<b>MISCELLANEOUS ACTIVITY TERMS</b>	1994	<b>C14-S11B</b>	<b>. Other antimicrobial vaccine</b> E.g. antibacterial.	1994
<b>C14-S01</b>	<b>Multiple sclerosis treatment, demyelinating diseases</b>	1994		<i>Previous code(s): C02-V02</i>	
<b>C14-S02</b>	<b>Dwarfism treatment</b>	1994	<b>C14-S11B1</b>	<b>.. Antibacterial vaccine</b>	2005
	<i>Previous code(s): C12-E01</i>		<b>C14-S11B2</b>	<b>.. Antiprotozoal vaccine</b>	2005
<b>C14-S03</b>	<b>Gene therapy general</b>	1994	<b>C14-S11B3</b>	<b>.. Antiparasitic vaccine</b>	2005
<b>C14-S03A</b>	<b>. Gene therapy</b>	2002	<b>C14-S11C</b>	<b>. Anticancer vaccine</b>	1994
<b>C14-S03B</b>	<b>. Antisense therapy</b>	2002		<i>Previous code(s): C02-V02</i>	
<b>C14-S03C</b>	<b>. RNA interference</b>	2005	<b>C14-S11D</b>	<b>. Vaccine type</b>	2005
<b>C14-S03D</b>	<b>. shRNA interference</b>	2008	<b>C14-S11D1</b>	<b>.. Whole-killed (inactive) vaccine</b>	2005
<b>C14-S04</b>	<b>Diabetes</b> This code is used when a drug targets the symptoms and associated disorders. Hypoglycemia is coded C14-F09.	1994	<b>C14-S11D2</b>	<b>.. Live-attenuated (weakened) vaccine</b>	2005
	<i>Previous code(s): C12-H05</i>		<b>C14-S11D3</b>	<b>.. Synthetic/genetically engineered vaccine</b>	2005
<b>C14-S04A</b>	<b>. Type II diabetes</b> Also known as adult onset diabetes or non-insulin dependent diabetes.	2005	<b>C14-S11E</b>	<b>. Therapeutic vaccine other</b> Vaccine other than antimicrobial or anticancer e.g. immunocontraceptive or antiasthma vaccine. Unspecified vaccines should be searched under the general code C14-S11.	2015
<b>C14-S05</b>	<b>Shock treatment general (excluding anaphylactic)</b> Anaphylactic shock is coded C14-G02B.	1994	<b>C14-S11F</b>	<b>. Vaccine adjuvants general</b> This code is also searched when three or more subcodes would be applied.	2023
	<i>Previous code(s): C12-A07</i>		<b>C14-S11F1</b>	<b>.. Aluminum adjuvants</b>	2023
<b>C14-S06</b>	<b>Toxic (septic) shock</b>	1994	<b>C14-S11F2</b>	<b>.. Freund's adjuvants</b>	2023
	<i>Previous code(s): C12-A01, C12-A06</i>		<b>C14-S11F3</b>	<b>.. Squalene based adjuvants</b>	2023
<b>C14-S07</b>	<b>Traumatic shock</b>	1994	<b>C14-S11F4</b>	<b>.. Vitamin E/tocopherol based adjuvants</b>	2023
	<i>Previous code(s): C12-C10</i>		<b>C14-S11F5</b>	<b>.. Saponin based adjuvants</b>	2023
<b>C14-S08</b>	<b>Antioxidant/free radical scavenger</b>	1994	<b>C14-S11F6</b>	<b>.. Other adjuvants</b>	2023
<b>C14-S09</b>	<b>Synergist</b>	1994	<b>C14-S12</b>	<b>Veterinary</b>	1994
	<i>Previous code(s): C12-C09</i>			<i>Previous code(s): C12-L09</i>	
<b>C14-S11</b>	<b>Vaccine general</b>	1994			
	<i>Previous code(s): C02-V02</i>				
<b>C14-S11A</b>	<b>. Antiviral vaccine</b>	1994			
	<i>Previous code(s): C02-V02</i>				

<b>C14-S13</b>	<b>Metabolic disorders</b> Includes enzyme deficiencies and conditions arising from such. 2005	<b>C14-S23</b>	<b>Unspecified activity</b> Applied to documents when a agrochemical formulation/ substance with agrochemical activity is claimed, but no specific disorders are mentioned as being treated, i.e., when no other activity codes can be applied. E.g. disorders of ying and yang. 2009
<b>C14-S13A</b>	. <b>Acidosis</b> 2005	<b>C14-S25</b>	<b>Chemotherapy</b> 2010
<b>C14-S14</b>	<b>Joint disorders general</b> Includes conditions affecting tendons and bursa. 2005	<b>C14-S26</b>	<b>Radiotherapy</b> 2010
<b>C14-S14A</b>	. <b>Cartilage and connective tissue disorders</b> 2009	<b>C14-S27</b>	<b>Electromagnetic therapy</b> Includes ultrasound, sonodynamic therapy and phototherapy using high energy photons. Also includes electrical stimulation. 2010
<b>C14-S14B</b>	. <b>Soft tissue disorders</b> 2009	<b>C14-S28</b>	<b>Prodrugs</b> Applied only when the prodrug is the novelty of the invention. 2012
<b>C14-S15</b>	<b>Broad formulation</b> Patent is concerned with the formulation type rather than the drugs contained in it. 2005	<b>C14-T</b>	<b>FERTILISERS/SOIL IMPROVING GENERAL</b> This code is also applied when three or more of C14-T01 to C14-T05 would be applicable. 1994 <i>Previous code(s): C12-N09,C12-N10</i>
<b>C14-S16</b>	<b>Many diseases treated</b> More than 15 diseases are said to be treated. Specific codes for the individual disease are still included. 2005	<b>C14-T01</b>	<b>Soil improving (other than nutrients) Synthetic growth media</b> Includes bioremediation of soil. 1994 <i>Previous code(s): C12-N08</i>
<b>C14-S17</b>	<b>Agricultural activity</b> 2005	<b>C14-T01A</b>	. <b>Synthetic growth medium</b> Can be used in conjunction with other C14 codes for general agricultural activity. 2005
<b>C14-S18</b>	<b>Drug combination</b> Used when specific combination of drugs are claimed. 2006	<b>C14-T01B</b>	. <b>Erosion inhibition of soil</b> 2005
<b>C14-S20</b>	<b>Genetic disorder</b> 2006	<b>C14-T01C</b>	. <b>Frost protection of soil</b> 2005
<b>C14-S20A</b>	. <b>Chromosomal abnormality disorder</b> 2006	<b>C14-T01D</b>	. <b>Nitrification inhibitor</b> 2005
<b>C14-S20B</b>	. <b>Fabry disease</b> 2015	<b>C14-T02</b>	<b>Moisture conservation (mulches)</b> 1994 <i>Previous code(s): C12-P10</i>
<b>C14-S20C</b>	. <b>Hunter syndrome</b> 2015	<b>C14-T03</b>	<b>Soil nutrients (inorganic)</b> 1994 <i>Previous code(s): C12-N09</i>
<b>C14-S21</b>	<b>Cell therapy</b> 2006		
<b>C14-S21A</b>	. <b>Stem cell therapy</b> 2023		
<b>C14-S21B</b>	. <b>CAR T-cell therapy</b> 2023		
<b>C14-S22</b>	<b>Prophylaxis</b> Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder. Applied only for veterinary patents in C. 2009		

<b>C14-T04</b>	<b>Soil nutrients (others)</b> <i>Previous code(s): C12-N10</i>	1994	<b>C14-U05</b>	<b>Conferring stress tolerance to plants</b> Conferring stress tolerance (e.g. drought, heat) to plants.	2006
<b>C14-T05</b>	<b>Trace element fertilisers</b>	2005	<b>C14-V</b>	<b>HERBICIDES</b>	1994
<b>C14-U</b>	<b>PLANT GROWTH REGULANTS/PROTECTANTS</b>	1994	<b>C14-V</b>	<b>Herbicide (general)</b> Used only when the herbicide is not specified as being total or selective.	2015
<b>C14-U01</b>	<b>Plant growth regulants (general), phytohormones</b> <i>Previous code(s): C12-P01</i>	1994	<b>C14-V01</b>	<b>Herbicide (total)</b> <i>Previous code(s): C12-P05</i>	2015
<b>C14-U01A</b>	. <b>Defoliants, desiccants, chemical mowing</b> <i>Previous code(s): C12-P02</i>	1994	<b>C14-V02</b>	<b>Herbicide (selective) (general and others)</b> For a specific selective herbicide the code for the crop-type protected applies e.g. C14-V02B applies for selectively killing weeds in rice fields. <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01B</b>	. <b>Fruit drops and set, thinning of fruit</b> <i>Previous code(s): C12-P03</i>	1994	<b>C14-V02A</b>	. <b>Aromatic crops</b> Includes herbs. <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01C</b>	. <b>Growth stimulants, sprouting and germination stimulants</b> <i>Previous code(s): C12-P04</i>	1994	<b>C14-V02B</b>	. <b>Cereal crop</b> Includes rice. <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01D</b>	. <b>Rooting compounds (rhizogenes)</b> <i>Previous code(s): C12-P08</i>	1994	<b>C14-V02C</b>	. <b>Fruit crop</b> <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01E</b>	. <b>Sprouting inhibitors, seed germination inhibitors, growth inhibitors</b> <i>Previous code(s): C12-P09</i>	1994	<b>C14-V02D</b>	. <b>Oil crop</b> Includes nuts, sunflower, rape. <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01F</b>	. <b>Inducing flowering in plants</b>	2006	<b>C14-V02E</b>	. <b>Ornamental crop</b> <i>Previous code(s): C12-P06</i>	1994
<b>C14-U01G</b>	. <b>Conferring colour improvement to plants</b> Includes improving chlorophyll content, amino acid content, sugar content, etc. in plants and their parts.	2019	<b>C14-V02F</b>	. <b>Vegetable crop</b> <i>Previous code(s): C12-P06</i>	1994
<b>C14-U02</b>	<b>Soil fumigants, seed protectants and sterilants</b> Not for plant protectants post-2014, these should be searched according to the relevant pathogen(s) in C14. <i>Previous code(s): C12-N07</i>	1994	<b>C14-V03</b>	<b>Post-emergence, pre-emergence for total herbicide</b> Used only when the herbicide is stated to be both post- and pre-emergent in action. <i>Previous code(s): C12-P06</i>	1994
<b>C14-U03</b>	<b>Conferring herbicide resistance to plants</b>	2006	<b>C14-V03A</b>	. <b>Post-emergence</b>	1994
<b>C14-U04</b>	<b>Conferring pest resistance to plants</b> Conferring pest resistance (e.g. fungi, insects) to plants.	2006	<b>C14-V03B</b>	. <b>Pre-emergence</b> <i>Previous code(s): C12-P06</i>	1994



<b>C14-V04</b>	<b>Herbicide safener</b> <i>Previous code(s): C14-M01E</i>	2009
<b>C14-V00X</b>	<b>. Combating resistant weeds</b> This code is applied in conjunction with one or more codes from section C14-V.	2013
<b>C14-W</b>	<b>INDUSTRIAL</b> Covers industrial applications of compounds/compositions e.g. biocides used in industrial cleaning compositions. This code applies in addition to any other property codes.	1994
<b>C14-X</b>	<b>DOMESTIC</b> Covers domestic applications of compounds/compositions e.g. fungicides used in decorative materials. This code applies in addition to any other property codes.	1994
<b>C14-Y</b>	<b>GREEN TECHNOLOGY</b> Used when processes/productions are kinder to the environment. Also includes environmentally-friendly apparatus.	2006
<b>C14-Z</b>	<b>GREEN FORMULATION</b> Used when compositions are kinder to the environment. Includes biodegradable.	2012

## C15 VITAMINS (from 201101)

Note that for structurally modified vitamins the suffix A is appended to the relevant parent code. The following compounds, although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (C07-D04+), pantothenic acid (C10-C04D), folic acid (C06-D09), choline (C10-A22), inositol (C10-E04A), biotin (C06-F03), p-amino-benzoic acid (C10-B02A), linoleic acid (C10-C04E2) and other unsaturated acids.

<b>C15-A</b>	<b>A VITAMINS</b>	
<b>C15-A00</b>	<b>Vitamin A and carotenoids</b> <i>previously coded C03-A</i>	2011
<b>C15-A00A</b>	<b>. Modified vitamin A and carotenoids</b>	2011
<b>C15-B</b>	<b>B VITAMINS</b>	2011
<b>C15-B00</b>	<b>B vitamins general</b>	2011
<b>C15-B00A</b>	<b>. Modified B vitamins general</b>	2011
<b>C15-B01</b>	<b>Vitamin B1 (thiamine)</b> <i>previously coded C03-B</i>	2011
<b>C15-B01A</b>	<b>. Modified vitamin B1 (thiamine)</b>	2011
<b>C15-B02</b>	<b>Vitamin B2 (riboflavin)</b> <i>previously coded C03-C</i>	2011
<b>C15-B02A</b>	<b>. Modified vitamin B2 (riboflavin)</b>	2011
<b>C15-B06</b>	<b>Vitamin B6 (pyridoxine)</b> <i>previously coded C03-D</i>	2011
<b>C15-B06A</b>	<b>. Modified vitamin B6 (pyridoxine)</b>	2011
<b>C15-B12</b>	<b>Vitamin B12 and cobalamine</b> <i>previously coded C03-E</i>	2011
<b>C15-B12A</b>	<b>. Modified vitamin B12 and cobalamine</b>	2011
<b>C15-C</b>	<b>C VITAMINS</b>	
<b>C15-C00</b>	<b>Vitamins C (ascorbic acid)</b> <i>previously coded C03-F</i>	2011

<b>C15-C00A</b>	<b>. Modified vitamin C (ascorbic acid)</b>	2011	<b>C15-K03</b>	<b>Vitamin K3</b>	2016
<b>C15-D</b>	<b>D VITAMINS</b>		<b>C15-K03A</b>	<b>. Modified vitamin K3</b>	2016
<b>C15-D00</b>	<b>D vitamins general</b> <i>previously coded C03-G</i>	2011	<b>C15-K04</b>	<b>Vitamin K4</b>	2016
<b>C15-D00A</b>	<b>. Modified D vitamins general</b>	2011	<b>C15-K04A</b>	<b>. Modified vitamin K4</b>	2016
<b>C15-D01</b>	<b>Vitamin D1</b>	2011	<b>C15-K05</b>	<b>Vitamin K5</b>	2011
<b>C15-D01A</b>	<b>. Modified vitamin D1</b>	2011	<b>C15-K05A</b>	<b>. Modified vitamin K5</b>	2011
<b>C15-D02</b>	<b>Vitamin D2</b>	2011	<b>C15-K06</b>	<b>Vitamin K6</b>	2017
<b>C15-D02A</b>	<b>. Modified vitamin D2</b>	2011	<b>C15-K06A</b>	<b>. Modified vitamin K6</b>	2017
<b>C15-D03</b>	<b>Vitamin D3</b>	2011	<b>C15-K07</b>	<b>Vitamin K7</b>	2020
<b>C15-D03A</b>	<b>. Modified vitamin D3</b>	2011	<b>C15-K07A</b>	<b>. Modified vitamin K7</b>	2020
<b>C15-D04</b>	<b>Vitamin D4</b>	2020	<b>C15-P</b>	<b>P VITAMINS</b>	
<b>C15-D04A</b>	<b>. Modified vitamin D4</b>	2020	<b>C15-P00</b>	<b>Vitamin P</b> <i>previously coded C03-K</i>	2011
<b>C15-D05</b>	<b>Vitamin D5</b>	2020	<b>C15-P00A</b>	<b>. Modified vitamin P</b>	2011
<b>C15-D05A</b>	<b>. Modified vitamin D5</b>	2020	<b>C15-X</b>	<b>PROVITAMINS</b>	2011
<b>C15-E</b>	<b>E VITAMINS</b>		<b>C15-Z</b>	<b>GENERAL OR UNSPECIFIED VITAMINS</b> <i>previously coded C03-L</i>	2011
<b>C15-E00</b>	<b>Vitamin E, tocopherols, tocotrienols</b> Includes tocodienols and tocotrienols. <i>previously coded C03-H</i>	2011			
<b>C15-E00A</b>	<b>. Modified vitamin E and tocopherols</b>	2011			
<b>C15-K</b>	<b>K VITAMINS</b>				
<b>C15-K00</b>	<b>K vitamins general</b> <i>previously coded C03-J</i>	2011			
<b>C15-K00A</b>	<b>. Modified K vitamins general</b>	2011			
<b>C15-K01</b>	<b>Vitamin K1</b>	2011			
<b>C15-K01A</b>	<b>. Modified vitamin K1</b>	2011			
<b>C15-K02</b>	<b>Vitamin K2</b>	2011			
<b>C15-K02A</b>	<b>. Modified vitamin K2</b>	2011			

**D:  
FOOD, FERMENTATION,  
DISINFECTANTS,  
DETERGENTS**

- D01 Baking, Edible Doughs
- D02 Processing Meat, Poultry, Fish
- D03 Foodstuffs and Treatment
- D04 Treating Water, Waste Water,  
and Sewage
- D05 Fermentation Industry
- D06 Sugar and Starch Industry
- D07 Skins, Hides, Pelts, Leather,  
Tobacco
- D08 Cosmetics, Dental, Toilet  
Preparations
- D09 Sterilising and Disinfecting,  
Bandages and Dressings
- D10 Animal and Vegetable Oils
- D11 Detergents, Soap, Glycerol

## D: FOOD, FERMENTATION, DISINFECTANTS, DETERGENTS

In addition to coding a general process (e.g. for dehydrating food in D03-K09), a preferred use is also coded (e.g. especially for production of dried milk, D03-B07).

Normally only main inventive features are coded, e.g. machine for filling pies would be D01-A only - not also under any of a wide range of meat, fruit etc. fillings. However, production of meat filling for pies or sausages would only be coded under the filling.

### D01 BAKING, EDIBLE DOUGHS

<b>D01-A</b>	<b>HANDLING DOUGH AND BAKED ARTICLES</b>	
<b>D01-A01</b>	<b>Bakery ovens</b>	1972
<b>D01-A02</b>	<b>Uncooked dough cutting, shaping, dispensing equipment</b>	1972
<b>D01-A03</b>	<b>Equipment for transporting batter, dough, bakery products</b>	1972
<b>D01-A04</b>	<b>Containers for dough, bakery products</b> Including raising boxes.	1972
<b>D01-A05</b>	<b>Equipment for mixing, rolling dough, batter kneading</b>	1972
<b>D01-A06</b>	<b>Treatment of bakery products after cooking</b> e.g. cutting, filling.	1972
<b>D01-A</b>	<b>General and others</b>	
<b>D01-B</b>	<b>BAKERY PRODUCTS, FLOUR, DOUGH</b>	
<b>D01-B01</b>	<b>Flour, additives for flour and dough</b> Including fats.	
<b>D01-B02</b>	<b>Bakery products general</b> For bakery products containing meat also search D02-A03.	
<b>D01-B02A</b>	<ul style="list-style-type: none"> <li>. <b>Bread</b> Including bread crumbs, fried bread and sandwiches. For the product to be considered as bread it must contain yeast as a leavening agent.</li> </ul>	1986

<b>D01-B02B</b>	<ul style="list-style-type: none"> <li>. <b>Cake</b> This must have a leavening agent other than yeast such as baking powder or have air or gas bubbles introduced mechanically such as by vigorous whisking (excluding rice cake).</li> </ul>	1986
<b>D01-B02C</b>	<ul style="list-style-type: none"> <li>. <b>Biscuits, crackers, "cookies", rice crackers, unleavened bread</b></li> </ul>	1986
<b>D01-B02D</b>	<ul style="list-style-type: none"> <li>. <b>Pizza bases, pastry products, pastry cases</b> e.g. for meringues.</li> </ul>	1986
<b>D01-B02E</b>	<ul style="list-style-type: none"> <li>. <b>Noodles, pasta, spaghetti, vermicelli, macaroni</b></li> </ul>	1986
<b>D01-B02F</b>	<ul style="list-style-type: none"> <li>. <b>Batter products, pancakes, waffles, fried batter coatings, artificial chips from dough</b> For batter coatings D03-H01S is also searchable.</li> </ul>	1986
<b>D01-B</b>	<b>General and others</b>	

## D02 PROCESSING MEAT, POULTRY, FISH

<b>D02-A</b>	<b>PROCESSING MEAT OR FISH</b>	
<b>D02-A01</b>	<b>Processing whole meat, hams and poultry</b>	1971
<b>D02-A02</b>	<b>Processing whole fish</b> e.g. degutting.	1971
<b>D02-A03</b>	<b>Meat, poultry or fish products, general</b> For bakery products containing meat also search D01-B02:	1971
<b>D02-A03A</b>	<b>. Fish paste, fish meal, fish flakes, fish roe (real or artificial), fish extracts</b> For fish extracts used as flavouring also search D03-H01C.	1986
<b>D02-A03B</b>	<b>. Minced meat, meat paste, chopped meat</b> Including chicken, turkey, lamb, beef, pork, etc. but excluding sausages.	1986
<b>D02-A03C</b>	<b>. Sausages, processing meat for sausages, but excluding skins</b>	1986
<b>D02-A03D</b>	<b>. Sausage skins and devices for filling skins</b>	1986
<b>D02-A03E</b>	<b>. Artificial meat, excluding sausages</b>	1986
<b>D02-A</b>	<b>General and others</b>	

## D03 FOODSTUFFS AND TREATMENT

<b>D03-A</b>	<b>PRESERVATION</b>	
<b>D03-A01</b>	<b>Meat or sausages</b>	
<b>D03-A02</b>	<b>Fish, fish roe, sea food and products</b>	
<b>D03-A03</b>	<b>Eggs and products</b> Including turtle eggs.	
<b>D03-A04</b>	<b>Vegetables, fruit or mushrooms</b>	
<b>D03-A05</b>	<b>Edible seeds</b> e.g. cereals and nuts.	
<b>D03-A</b>	<b>General and others</b>	
<b>D03-B</b>	<b>MILK AND MILK PRODUCTS</b>	
<b>D03-B01</b>	<b>Production of curds in milk</b>	1972
<b>D03-B02</b>	<b>Separation of curds and whey</b>	1972
<b>D03-B03</b>	<b>Moulding cheese</b>	1972
<b>D03-B04</b>	<b>Additives for cheese</b>	1972
<b>D03-B05</b>	<b>Transporting cheese and packing</b>	1972
<b>D03-B06</b>	<b>Cheese (other than above)</b> Including stillage, maturing and bean curd (tofu).	1972
<b>D03-B07</b>	<b>Milk concentrates</b> e.g. powder	1972
<b>D03-B08</b>	<b>Milk additives</b>	1972
<b>D03-B09</b>	<b>Testing milk</b>	1972
<b>D03-B10</b>	<b>Transporting milk; carriers for milk</b>	1972
<b>D03-B11</b>	<b>Synthetic milk</b> Including bean milk.	1972
<b>D03-B12</b>	<b>Butter</b> Excluding butter substitutes, see D03-C. <i>Previous code(s): D03-B</i>	1994
<b>D03-B13</b>	<b>Cream</b> Includes artificial cream. <i>Previous code(s): D03-B</i>	1994

<b>D03-B14</b>	<b>Yoghurt</b>	1994	<b>D03-D03A</b>	<b>. Artificial coffee</b>	2011
	<i>Previous code(s): D03-B</i>		<b>D03-D03B</b>	<b>. Artificial tea</b>	2011
<b>D03-B15</b>	<b>Milk general</b>	2011	<hr/>		
<b>D03-B</b>	<b>General and others</b>		<b>D03-E</b>	<b>COCOA AND CONFECTIONERY</b>	
<b>D03-C</b>	<b>BUTTER SUBSTITUTES, EDIBLE OILS, FATS</b>		<b>D03-E01</b>	<b>Transporting confectionery</b>	1972
<b>D03-C</b>	<b>General</b>		<b>D03-E02</b>	<b>Coating confectionery and ice cream</b>	1972
<b>D03-C01</b>	<b>Cooking and edible oils (liquid)</b>	1994	<b>D03-E03</b>	<b>Shaping confectionery and ice cream</b>	1972
	<i>Previous code(s): D03-C</i>		<b>D03-E04</b>	<b>Packing confectionery and ice cream</b>	1972
<b>D03-C02</b>	<b>Margarine, spreads and cooking fats (solid)</b>	1994	<b>D03-E05</b>	<b>Cooking and mixing ingredients for confectionery</b>	1972
	<i>Previous code(s): D03-C</i>		<b>D03-E06</b>	<b>Dispenser for confectionery</b> Including filling.	1972
<b>D03-D</b>	<b>COFFEE, TEA AND SUBSTITUTES</b>		<b>D03-E07</b>	<b>Chocolate and cocoa products</b>	1972
<b>D03-D</b>	<b>Coffee, tea and substitutes, general</b>		<b>D03-E08</b>	<b>Ice cream and similar frozen products</b>	1972
<b>D03-D01</b>	<b>Coffee general</b>	1986	<b>D03-E09</b>	<b>Chewing gum</b>	1994
<b>D03-D01A</b>	<b>. Packaging</b> Including coffee bags.	1986		<i>Previous code(s): D03-E</i>	
<b>D03-D01B</b>	<b>. Extraction</b> Including decaffeination, concentration, freeze drying and freeze dried coffee.	1986	<b>D03-E10</b>	<b>Candy general</b>	2002
<b>D03-D01C</b>	<b>. Grinding, cutting</b>	1986	<b>D03-E10A</b>	<b>. Hard candy</b>	2002
<b>D03-D01D</b>	<b>. Steaming, roasting, drying</b> Excludes extraction D03-D01B.	1986	<b>D03-E10A1</b>	<b>.. Chocolate</b>	2002
<b>D03-D02</b>	<b>Tea general</b>	1986	<b>D03-E10A2</b>	<b>.. Non-chocolate</b>	2002
<b>D03-D02A</b>	<b>. Packaging</b> Including tea bags.	1986	<b>D03-E10B</b>	<b>. Chewy candy</b>	2002
<b>D03-D02B</b>	<b>. Extraction</b> Including decaffeination, concentration, freeze drying.	1986	<b>D03-E10B1</b>	<b>.. Chocolate</b>	2002
<b>D03-D02C</b>	<b>. Grinding, cutting</b>	1986	<b>D03-E10B2</b>	<b>.. Non-chocolate</b>	2002
<b>D03-D02D</b>	<b>. Steaming, drying, fermenting, roasting</b> Excludes extraction D03-D02B.	1986	<b>D03-E11</b>	<b>General</b>	2002
<b>D03-D03</b>	<b>Artificial tea or coffee or beverages such as herbal tea</b> Excluding D03-D01: and D03-D02: search also D03-H01G.	1986	<b>D03-E</b>	<b>General and others</b>	2002
			<b>D03-F</b>	<b>PROTEINS, PHOSPHATIDES</b>	
			<b>D03-F01</b>	<b>Protein recovery - from other sources</b>	1972

<b>D03-F02</b>	<b>Protein recovery - from soya beans</b> 1972	<b>D03-H01B1</b>	<b>.. Taste masking</b> 2002
<b>D03-F03</b>	<b>Protein recovery - from micro-organisms</b> 1972	<b>D03-H01B2</b>	<b>.. Taste enhancing</b> 2002
<b>D03-F04</b>	<b>Protein recovery - from animal or fish waste</b> 1972	<b>D03-H01C</b>	<b>. Natural flavouring agents</b> e.g. natural extracts (see also D03-H01D). 1972
<b>D03-F05</b>	<b>Shaping of protein (threads and films)</b> 1972	<b>D03-H01D</b>	<b>. Flavouring agents of special form</b> 1972
<b>D03-F06</b>	<b>Protein compositions</b> 1972	<b>D03-H01E</b>	<b>. Food colourants (general)</b> 1972
<b>D03-F07</b>	<b>Phosphatides</b> 1972	<b>D03-H01E1</b>	<b>.. Natural food colorant</b> 2007 <i>Previous code(s): D03-H01E</i>
<b>D03-F</b>	<b>General and others</b>	<b>D03-H01E2</b>	<b>.. Synthetic food colorant</b> 2007 <i>Previous code(s): D03-H01E</i>
<b>D03-G</b>	<b>ANIMAL FEEDS</b>	<b>D03-H01F</b>	<b>. Carbonated non-alcoholic beverages</b> 1972
<b>D03-G01</b>	<b>Fodder additives</b> 1971	<b>D03-H01G</b>	<b>. Non-alcoholic beverages</b> Except D03-H01F. 1972
<b>D03-G02</b>	<b>From microorganisms</b> e.g. yeasts. 1972	<b>D03-H01G1</b>	<b>.. Fruit Juices</b> 2011
<b>D03-G03</b>	<b>From animals</b> e.g. offal, excrement. 1972	<b>D03-H01H</b>	<b>. Fluid foods</b> e.g. sauces, soups, mayonnaise, emulsions except D03-H01F and D03-H01G. 1972
<b>D03-G04</b>	<b>From plants</b> e.g. beet residues. 1972	<b>D03-H01J</b>	<b>. Gelled food products, thickeners</b> From 2007, jam, marmalade and other conserve are coded under D03-H01V. 1972
<b>D03-G05</b>	<b>From fish; insects</b> e.g. stick water. 1972	<b>D03-H01K</b>	<b>. Foods with special shape</b> Except D03-H01J. 1972
<b>D03-G06</b>	<b>Special shape animal feeds</b> Including synthetic dog bones. 1972	<b>D03-H01L</b>	<b>. Dehydrated or concentrated foods</b> Includes instant foods. 1972
<b>D03-G</b>	<b>General and others</b>	<b>D03-H01M</b>	<b>. Partially cooked foods</b> Except D03-H01L. 1972
<b>D03-H</b>	<b>FOODSTUFFS, GENERAL AND PRESERVATION</b>	<b>D03-H01N</b>	<b>. Emulsifiers for food</b> 1972
<b>D03-H</b>	<b>Foodstuffs not provided for, general</b>	<b>D03-H01P</b>	<b>. Antioxidants for food</b> 1972
<b>D03-H01</b>	<b>FOODSTUFF GENERAL</b>	<b>D03-H01Q</b>	<b>. Stabilisers for food, humectants</b> Except D03-H01P,N,R. 1972
<b>D03-H01</b>	<b>Foodstuffs; non-alcoholic beverages and preparations not provided for elsewhere, general</b>		
<b>D03-H01A</b>	<b>. Sweetening agents</b> Not additionally searchable under D03-H01T. 1972		
<b>D03-H01B</b>	<b>. Chemical flavouring agents</b> See also D03-H01D. 1972		

<b>D03-H01R</b>	. <b>Binders for food</b>	1972	<b>D03-H02A</b>	. <b>By freezing, cooling or refrigeration</b>	1986
<b>D03-H01S</b>	. <b>Coatings for food; coated food products</b> Except D03-H01R.	1972	<b>D03-H02B</b>	. <b>By heat sterilisation or drying</b>	1986
<b>D03-H01T</b>	. <b>Low calorie, health and dietary foods, general</b> Except D03-H01A.	1972	<b>D03-H02B1</b>	.. <b>By heat sterilisation</b> E.g. pasteurisation. Add D03-H02C for heating by irradiation e.g. with microwave.	2011
<b>D03-H01T1</b>	.. <b>Dietary fibre (bran/roughage etc.)</b>	1994	<b>D03-H02B2</b>	.. <b>By drying</b>	2011
	<i>Previous code(s): D03-H01T</i>		<b>D03-H02B2A</b>	... <b>Drying with heating</b> Add D03-H02C for heating by irradiation e.g. with microwave.	2011
<b>D03-H01T2</b>	.. <b>Other health</b>	1994	<b>D03-H02B2B</b>	... <b>Drying without heating</b> E.g. by evaporation at ambient temperature or sun drying.	2011
	<i>Previous code(s): D03-H01T</i>		<b>D03-H02C</b>	. <b>By irradiation</b>	1986
<b>D03-H01T2A</b>	... <b>Probiotics/prebiotics</b>	2006	<b>D03-H02D</b>	. <b>By adding salt or acid (pickling) or sugar</b>	1986
<b>D03-H01T2B</b>	... <b>Others, not pro/prebiotics or vitamin preparations</b>	2006	<b>D03-H02E</b>	. <b>By other additives</b> Except antioxidants see D03-H01P.	1986
<b>D03-H01T2C</b>	... <b>Vitamin preparations</b>	2011	<b>D03-H02F</b>	. <b>By sterile packaging</b> e.g. canning or sealed bags. (Search also D03-K and other D03-H02: codes if applicable e.g. for heat sterilisation with canning, search D03-H02F and D03-H02B).	1986
<b>D03-H01T3</b>	.. <b>Low calorie</b>	1994			
	<i>Previous code(s): D03-H01T</i>		<b>D03-J</b>	<b>FOODSTUFF MACHINERY FOR</b>	
<b>D03-H01T3A</b>	... <b>Low fat</b>	2005	<b>D03-J01</b>	<b>Treating grain</b>	1972
<b>D03-H01T3B</b>	... <b>Low carbohydrate</b>	2005	<b>D03-J02</b>	<b>Treating nuts</b> Including peanuts and coffee beans.	1972
<b>D03-H01T4</b>	.. <b>High calorie foodstuff; energy boosters</b> e.g. energy bars.	2005	<b>D03-J03</b>	<b>Removing stones and pips from fruit</b>	1972
<b>D03-H01T5</b>	.. <b>Special dietary requirement foods</b> e.g. diabetic, gluten free.	2006	<b>D03-J04</b>	<b>Peeling fruit</b> Including pumpkins, melons, marrows and zucchini (courgettes).	1972
	<i>Previous code(s): D03-H01T</i>		<b>D03-J05</b>	<b>Washing fruit</b> Including pumpkins, melons, marrows and zucchini (courgettes).	1972
<b>D03-H01U</b>	. <b>Fried foodstuff</b>	2005			
<b>D03-H01V</b>	. <b>Jam/marmalade/other conserve</b>	2007			
	<i>Previous code(s): D03-H01J</i>				
<b>D03-H02</b>	<b>PRESERVING FOODSTUFFS</b>				
<b>D03-H02</b>	<b>Preserving</b> e.g. pasteurising, sterilising, freezing, refrigeration, drying, freeze drying. For specific food, search under appropriate D01-A: to D03-H01: code only. For dehydrated food see also D03-H01L.				



<b>D03-J06</b>	<b>Cutting or crushing fruit</b> Including pumpkins, melons, marrows and zucchini (courgettes). 1972	<b>D03-K08</b>	<b>Transporting, packing and storage devices for food</b> e.g. containers. 1972
<b>D03-J07</b>	<b>Peeling vegetables</b> Including peas, beans, mushrooms and cauliflowers. 1972	<b>D03-K08A</b>	. <b>Green packaging</b> Biodegradable packaging/plastics, recyclable packaging, arrangements allowing use of smaller amount of materials in packaging etc. 2011
<b>D03-J08</b>	<b>Washing vegetables</b> Including peas, beans, mushrooms and cauliflowers. 1972	<b>D03-K08B</b>	. <b>Food packaging materials</b> 2014
<b>D03-J09</b>	<b>Cutting or crushing vegetables</b> Including "topping and tailing", coring and pulping; e.g. of peas, beans, mushrooms and cauliflowers.. 1972	<b>D03-K09</b>	<b>Devices for concentrating or drying food</b> 1972
<b>D03-J10</b>	<b>Preparation of animal feeds</b> 1972	<b>D03-K10</b>	<b>Dispenser for foodstuff</b> 2005
<b>D03-J11</b>	<b>Popcorn making</b> 2005	<b>D03-K11</b>	<b>Labelling system for foodstuff</b> 2005
<b>D03-J</b>	<b>General and others</b> Includes "topping and tailing", coring and pulping.	<b>D03-K12</b>	<b>Defrosting foodstuff</b> 2005
<b>D03-K</b>	<b>SHAPING OR WORKING OF FOODSTUFFS</b>	<b>D03-K13</b>	<b>Green food technology</b> Includes non-waste or environmentally friendly food technology. 2011
<b>D03-K01</b>	<b>Cooking and baking general, ovens</b> Includes roasting. 1972	<b>D03-K14</b>	<b>Food cooling device</b> Device or system for cooling the interior of a food processing machine; a food cooling system. 2014
<b>D03-K01A</b>	. <b>Microwave</b> 2013	<b>D03-K</b>	<b>General and others</b>
<b>D03-K01B</b>	. <b>Fryer</b> 2013	<b>D03-L</b>	<b>RICE AND PRODUCTS</b> 1994
<b>D03-K01C</b>	. <b>Grill</b> 2013	<b>D03-L</b>	<b>Rice and products</b> Excluding D01-B02C. 1994 <i>Previous code(s): D03-H01</i>
<b>D03-K02</b>	<b>Grading devices for food</b> 1972	<b>D03-M</b>	<b>EGG AND PRODUCTS</b> 1994
<b>D03-K03</b>	<b>Testing and monitoring liquid food</b> 1972	<b>D03-M</b>	<b>Egg and products</b> 1994 <i>Previous code(s): D03-H01</i>
<b>D03-K04</b>	<b>Testing and monitoring solid food</b> 1972	<b>D03-N</b>	<b>VEGETABLE PRODUCTS</b> Not to be used in conjunction with D03-A and/or D03-J. 2005
<b>D03-K05</b>	<b>Cutting devices for food</b> 1972	<b>D03-P</b>	<b>FRUIT PRODUCTS</b> Not to be used in conjunction with D03-A and/or D03-J. 2005
<b>D03-K06</b>	<b>Moulding of food</b> e.g. extrusion. 1972		
<b>D03-K07</b>	<b>Mixing or stirring food</b> 1972		

<b>D03-Q</b>	<b>NUT AND EDIBLE SEED PRODUCTS</b> Not to be used in conjunction with D03-A and/or D03-J.	2005
<b>D03-R</b>	<b>CEREAL PRODUCTS</b> Not to be used in conjunction with D03-A and/or D03-J.	2005
<b>D03-S</b>	<b>BABY FOOD ONLY</b> Used in conjunction with other codes in section D.	2007

## **D04 TREATING WATER, WASTE WATER AND SEWAGE**

<b>D04-A</b>	<b>TREATMENT OF THE WATER</b> see also D04-B: for impurities removed	
<b>D04-A</b>	<b>Water treatment process general</b>	
<b>D04-A01</b>	<b>Purification general</b>	
<b>D04-A01A</b>	. <b>By distillation</b>	1972
<b>D04-A01B</b>	. <b>By precipitation, sedimentation, flocculation</b> See D04-B09.	1972
<b>D04-A01C</b>	. <b>By freezing, crystallisation</b>	1972
<b>D04-A01D</b>	. <b>Membranes for reverse osmosis</b>	1972
<b>D04-A01E</b>	. <b>Apparatus for reverse osmosis, membrane filtration and ultra-filtration</b>	1972
<b>D04-A01F</b>	. <b>By other filtration processes, adsorption, active C</b>	1972
<b>D04-A01F1</b>	.. <b>Other filtration process</b>	2005
<b>D04-A01F2</b>	.. <b>Active C treatment</b>	2005
<b>D04-A01F3</b>	.. <b>Other adsorption processes</b>	2005
<b>D04-A01G</b>	. <b>By ion exchange</b>	1972
<b>D04-A01H</b>	. <b>Measuring purity of water</b>	1972
<b>D04-A01J</b>	. <b>Biological process</b> e.g. sewage treatment. Not used when D04-B10 codes are applied.	1986
<b>D04-A01K</b>	. <b>By oxidation/aeration</b> <i>Previous code(s): D04-B08</i>	1986
<b>D04-A01K1</b>	.. <b>Oxidation with ozone</b>	2005
<b>D04-A01K2</b>	.. <b>Oxidation / aeration with other</b>	2005
<b>D04-A01L</b>	. <b>By flotation</b> <i>Previous code(s): D04-B09</i>	1986
<b>D04-A01M</b>	. <b>By electrochemical process</b>	1986

<b>D04-A01N</b>	. <b>By extraction</b>	1986	<b>D04-B03</b>	<b>Removal of mineral oil, hydrocarbons, coal slurry</b>	1977
<b>D04-A01P</b>	. <b>By other method</b> Including other chemical, decanting.	1986	<b>D04-B04</b>	<b>Removal of natural products</b> Including protein, starch, animal and vegetable fats and oils, natural animal, plant and fish material from power station inflow.	1977
<b>D04-A01P1</b>	.. <b>Chemical method</b> Includes adding polymers.	2005	<b>D04-B05</b>	<b>Removal of metals</b> Including metal compounds, excluding alkali(ne earth) metal compounds.	1977
<b>D04-A01P2</b>	.. <b>Physical method</b>	2005	<b>D04-B05A</b>	. <b>Removal of heavy metals</b> Used for where the patent vaguely mentions removal of heavy metals or removal of 2nd, 3rd row transition metals, Lanthanides or Actinides.	2005
<b>D04-A01P2A</b>	... <b>By irradiation</b>	2011	<b>D04-B05B</b>	. <b>Removal of other metals</b>	2005
<b>D04-A01Q</b>	. <b>Magnetic water treatment</b> <i>Previous code(s): D04-A01P</i>	1994	<b>D04-B06</b>	<b>Removal of specified organic materials, general and other</b>	1977
<b>D04-A02</b>	<b>Sterilisation of water</b>	1972	<b>D04-B06A</b>	. <b>Removal of phenolic compounds</b>	1986
<b>D04-A03</b>	<b>Scale prevention, deoxygenation and anti-corrosion general</b>	1972	<b>D04-B06B</b>	. <b>Removal of organic dyes, optical brighteners</b>	1986
<b>D04-A03A</b>	. <b>Scale prevention</b>	1986	<b>D04-B06C</b>	. <b>Removal of surfactants</b>	
<b>D04-A03B</b>	. <b>Deoxygenation and degassification of water</b>	1986	<b>D04-B06D</b>	. <b>Removal of polymers and polymer monomers</b>	1986
<b>D04-A03C</b>	. <b>Anti-corrosion</b>	1986	<b>D04-B06E</b>	. <b>Removing halohydrocarbons from water</b> <i>Previous code(s): D04-B06</i>	1994
<b>D04-A04</b>	<b>Physiological amelioration of potable water by specific additives</b>		<b>D04-B07</b>	<b>Removal of specified inorganic and radioactive materials, general and other</b>	1977
<b>D04-A05</b>	<b>Containment of waste to prevent contamination of water</b> e.g. (i) preventing herbicides from reaching water, (ii) enclosing waste in another material.	1994	<b>D04-B07A</b>	. <b>Removal of inorganic cyanides or (thio)cyanates</b>	1986
<b>D04-A06</b>	<b>Apparatus for recycling waste water</b>	2007	<b>D04-B07B</b>	. <b>Removal of inorganic phosphorus compounds</b>	1986
<b>D04-B</b>	<b>IMPURITY REMOVAL FROM WATER</b> Prior to 198601 these codes are applied only to the removal of impurities from waste water, after 198601 they are applied to domestic or industrial waste water or natural water. Also search D04-A: for method of removal.		<b>D04-B07C</b>	. <b>Removal of inorganic nitrogen compounds</b> Excluding urea and cyanides but including nitrates, ammonia and inorganic carbamates.	1986
<b>D04-B</b>	<b>Impurity removal from water general</b>				
<b>D04-B01</b>	<b>Of sewage</b>	1971-1976			
<b>D04-B02</b>	<b>Of aqueous industrial effluent, oil pollution</b>	1972-1976			

<b>D04-B07D</b>	. <b>Removal of inorganic sulphur compounds</b>	1986
<b>D04-B07E</b>	. <b>Removal of inorganic fluorine compound</b>	1986
<b>D04-B07F</b>	. <b>Desalination of brine or sea water</b>	1986
<b>D04-B07G</b>	. <b>Demineralisation of water</b>	2012
<b>D04-B08</b>	<b>Oxidation/aeration of waste water</b> From 198601 search D04-A01K.	1977-1985
<b>D04-B09</b>	<b>Sedimentation, addition of flocculants to waste water, flotation</b> From 198601 search D04-A01B or D04-A01L.	1977-1985
<b>D04-B10</b>	<b>Sewage sludge from water</b> Separation, solidification of sludge, treatment of sludge general.	1977
<b>D04-B10A</b>	. <b>Dewatering sludge</b>	1986
<b>D04-B10B</b>	. <b>Pyrolysis of sludge</b> Excluding D04-B10A.	1986
<b>D04-B11</b>	<b>General sewage treatment</b> From 198601 search D04-A:.	1977-1985
<b>D04-C</b>	<b>GAS IMPREGNATED WATER E.G. WITH CARBON DIOXIDE</b>	
<b>D04-C</b>	<b>General</b>	
<b>D04-D</b>	<b>ENVIRONMENTALLY-FRIENDLY WATER PROCESSING</b>	2013

## D05 FERMENTATION INDUSTRY

<b>D05-A</b>	<b>INDUSTRIAL FERMENTATION PROCESSES GENERAL</b>	
<b>D05-A</b>	<b>General</b>	
<b>D05-A01</b>	<b>Enzyme bound to carrier general</b>	1977
<b>D05-A01A</b>	. <b>Carrier general</b>	1986
<b>D05-A01A1</b>	.. <b>Polysaccharide</b>	1986
<b>D05-A01A2</b>	.. <b>Polymer</b> Excluding natural polymers.	1986
<b>D05-A01A3</b>	.. <b>Non-polymeric organic compound</b> e.g. haptens.	1986
<b>D05-A01A4</b>	.. <b>Natural material other than above</b> e.g. antibody.	1986
<b>D05-A01A5</b>	.. <b>Inorganic material</b> e.g. glass, metal, silica, clay, mineral.	1986
<b>D05-A01B</b>	. <b>Fixed enzyme general</b>	1986
<b>D05-A01B1</b>	.. <b>Oxidoreductase</b>	1986
<b>D05-A01B2</b>	.. <b>Transferase</b>	1986
<b>D05-A01B3</b>	.. <b>Hydrolase</b>	1986
<b>D05-A01B4</b>	.. <b>Lyase</b>	1986
<b>D05-A01B5</b>	.. <b>Isomerase</b>	1986
<b>D05-A01B6</b>	.. <b>Ligase (synthetase)</b>	1986
<b>D05-A01B7</b>	.. <b>Translocase</b> Enzymes in class EC7.	2023
<b>D05-A01C</b>	. <b>Process general</b>	1986
<b>D05-A01C1</b>	.. <b>Apparatus using fixed enzyme</b>	1986

<b>D05-A01C2</b>	<b>.. General methods of binding enzymes to carriers</b> D05-A01C: codes are only applied if the scope of both the enzyme and the carrier are broad. Only the inventive feature is searchable. For example if a hydrolase is bound to any carrier, then only the code D05-A01B3 is searchable not D05-A01A.	<b>1986</b>	<b>D05-A04</b>	<b>Other fermentation processes general</b>	<b>1977</b>
<b>D05-A02</b>	<b>Other enzyme process (non-fixed) general</b>	<b>1977</b>	<b>D05-A04A</b>	<b>. Organic waste, town waste or sludge fermentation</b>	<b>1986</b>
<b>D05-A02A</b>	<b>. Oxidoreductase</b>	<b>1986</b>	<b>D05-A04B</b>	<b>. Culture media and their preparation for industrial fermentation, comminuting waste for fermentation</b> Aeration and mixing devices for media during fermentation - see D05-A03C.	<b>1986</b>
<b>D05-A02B</b>	<b>. Transferase</b>	<b>1986</b>	<b>D05-A04C</b>	<b>. Cultivation of mushrooms, shiitake, Basidiomycetes etc.</b> Includes both apparatus and methods used in any aspect of mushroom cultivation.	<b>1986</b>
<b>D05-A02C</b>	<b>. Hydrolase</b>	<b>1986</b>	<b>D05-A04D</b>	<b>. Fermented foods and fermented non-alcoholic drinks</b> Includes both apparatus and methods used in any aspect of fermented foods and fermented non-alcoholic drinks.	<b>2007</b>
<b>D05-A02D</b>	<b>. Lyase</b>	<b>1986</b>		<i>Previous code(s): D03-H01</i>	
<b>D05-A02E</b>	<b>. Isomerase</b>	<b>1986</b>	<b>D05-B</b>	<b>BREWING, ETHANOLIC FERMENTATION</b>	
<b>D05-A02F</b>	<b>. Ligase (synthetase)</b>	<b>1986</b>	<b>D05-B01</b>	<b>Malting grains and mash processing</b> Includes both apparatus and methods used in malting grain and mash processing.	<b>1986, 2010</b>
<b>D05-A02G</b>	<b>. Translocase</b> Enzymes in class EC7.	<b>2023</b>	<b>D05-B01A</b>	<b>. Malting grains</b> Malting involves soaking grains, allowing them to germinate and then drying. Includes barley steeping device for malt.	<b>2010</b>
<b>D05-A03</b>	<b>Fermentation apparatus general</b> Excluding organic waste fermentation.	<b>1977</b>	<b>D05-B01B</b>	<b>. Mash processing</b> Mash processing or preparation. Also includes devices used for mash preparation.	<b>2010</b>
<b>D05-A03A</b>	<b>. Carriers for microorganisms, microorganisms bound to carriers</b> Includes both devices and methods specifically using immobilised microorganisms.	<b>1986</b>	<b>D05-B02</b>	<b>Brewing beer, fermentation to give beer-type drinks, low-calorie beer</b> For low calorie beer also search D03-H01T.	<b>1986</b>
<b>D05-A03B</b>	<b>. Automated fermentation vessels</b> Excluding sewage treatment.	<b>1986</b>	<b>D05-B03</b>	<b>Fermentation device/process to give ethanol as the main product</b>	<b>1986</b>
<b>D05-A03C</b>	<b>. Mixing devices for fermentation vessels, aeration of the medium</b> Excluding sewage treatment. The recovery of microorganisms from the medium and preparation of the medium (e.g. comminuting waste for fermentation) is searched under D05-A04. Recovery of products is searched under D05-C.	<b>1986</b>			

<b>D05-B03A</b>	<b>. Fermentation device/process to give substituted ethanol as main product</b> Includes all substituted ethanols e.g. fluorophenylethanol. <b>2014</b>	<b>D05-C07</b>	<b>Nucleic acids</b> <b>1972</b>
<b>D05-B04</b>	<b>Fermentation yeast</b> Includes yeast blocks, fermentation to give yeast as the main desired product, use of yeast in brewing, baking or animal feeds. <b>1986</b>	<b>D05-C08</b>	<b>Sugars</b> Including polysaccharides, sugar amines and sugar acids. Also all syrups. <b>1972</b>
<b>D05-B</b>	<b>General and others</b>	<b>D05-C09</b>	<b>Aliphatic acids</b> Excepting any acids covered under higher codes. May be substituted but the acid functionality must be retained. Also includes fatty acids. <b>1972</b>
<b>D05-C</b>	<b>CHEMICALS BY FERMENTATION (BIOSYNTHESIS)</b> This section is not additionally searched under D05-A03: or D05-A04: Polypeptides and proteins (including enzymes) which are produced by genetically engineered microorganisms are searched under D05-C and under D05-H17. Polypeptides and proteins (including enzymes) which are produced by engineered cell lines (i.e. not by microorganisms and so not defined as fermentation) are only searched under D05-H17.	<b>D05-C10</b>	<b>Vitamins</b> <b>1972</b>
<b>D05-C01</b>	<b>Amino acids</b> Also includes substitutions such as 4-oxoproline. <b>1971</b>	<b>D05-C11</b>	<b>Polypeptides</b> <b>1986</b>
<b>D05-C02</b>	<b>Antibiotics</b> <b>1971</b>	<b>D05-C12</b>	<b>Specific proteins, excluding enzymes</b> <b>1986</b>
<b>D05-C03</b>	<b>Enzymes</b> <b>1971</b>	<b>D05-C13</b>	<b>Biomass and non-specific proteins, yeast proteins (not yeast itself)</b> <b>1986</b>
<b>D05-C03A</b>	<b>. Coenzymes</b> <b>1986</b>	<b>D05-C14</b>	<b>Methane</b> <b>1986</b>
<b>D05-C03B</b>	<b>. Oxidoreductases</b> <b>1986</b>	<b>D05-C15</b>	<b>Unsubstituted alcohols excluding ethanol</b> For aromatic, cyclic or aliphatic alcohols and may include diols and triols (e.g. ethylene glycol, propanetriol). Sugar alcohols code as D05-C17. <b>1986</b>
<b>D05-C03C</b>	<b>. Hydrolases</b> <b>1986</b>	<b>D05-C16</b>	<b>Di- or tripeptides</b> e.g. glutathione <b>2009</b>
<b>D05-C03D</b>	<b>. Transferases</b> <b>1986</b>	<b>D05-C17</b>	<b>Sugar alcohols</b> <b>2010</b>
<b>D05-C03E</b>	<b>. Lyases</b> <b>1986</b>	<b>D05-C18</b>	<b>Pigments</b> <b>2010</b>
<b>D05-C03F</b>	<b>. Isomerases</b> <b>1986</b>	<b>D05-C19</b>	<b>Lipids</b> Includes all lipids including glycerolipids, phospholipids, sphingosine, cephalin, ceramide, oils and its derivatives. <b>2014</b>
<b>D05-C03G</b>	<b>. Ligases (synthetases)</b> <b>1986</b>	<b>D05-C20</b>	<b>Hydrogen</b> <b>2014</b>
<b>D05-C04</b>	<b>Steroids</b> <b>1971</b>	<b>D05-C21</b>	<b>Polymers</b> Production of all polymers, excepting polypeptides and polysaccharides. <b>2015</b>
<b>D05-C05</b>	<b>Nucleotides</b> <b>1972</b>	<b>D05-C22</b>	<b>Flavones or flavanoids</b> <b>2016</b>
<b>D05-C06</b>	<b>Nucleosides</b> <b>1972</b>		

<b>D05-C23</b>	<b>Other acids</b> Including sulfur and phosphorus acids, but excepting amino acids (search under D05-C01), nucleic acids (search under D05-C07), sugar acids (search under D05-C08) and aliphatic and fatty acids (search under D05-C09). This code is applied for acids with non-aliphatic portions such as phenyllactic acid. 2016	<b>D05-H03B</b>	<b>. By recombinant DNA technology</b> From 1994, microbial mutants (and non-microbial mutants) obtained by recombinant DNA techniques are searched under D05-H14. New methods of forming microbial and non-microbial mutants are searched under D05-H18. 1986-1993
<b>D05-C24</b>	<b>Saponins</b> 2021	<b>D05-H04</b>	<b>Newly discovered, testing of, isolation of, identification of and detection of bacteria</b> May also be used in combination with D05-H18B code. Mutants code here but recombinant bacteria are searched under D05-H14A. 1972
<b>D05-C25</b>	<b>Terpenes</b> 2021	<b>D05-H05</b>	<b>Newly discovered, testing of, isolation of, identification of and detection of fungi</b> May also be used in combination with D05-H18B code. Mutants code here but recombinant fungi are searched under D05-H14A2. 1972
<b>D05-C26</b>	<b>Alkaloids</b> Alkaloids synthesised by means of fermentation or extracted or purified from plant source or by means of biosynthesis. 2022	<b>D05-H06</b>	<b>Newly discovered, testing of, isolation of, identification of and detection of viruses and other</b> 1972
<b>D05-C</b>	<b>Others; general.</b> Excluding ethanol	<b>D05-H06A</b>	<b>. Newly discovered, testing of, isolation of, identification of and detection of viruses</b> May also be used in combination with D05-H18B code. Mutants code here but recombinant viruses are searched under D05-H12F. 2002
<b>D05-D</b>	<b>DISTILLATION AND RECTIFICATION OF FERMENTED SOLUTIONS, BY-PRODUCT RECOVERY, DENATURING OF ALCOHOL</b>	<b>D05-H06B</b>	<b>. Newly discovered, testing of, isolation of, identification of and detection of prions</b> 2002
<b>D05-D</b>	<b>General</b>	<b>D05-H07</b>	<b>Production of vaccines, antigens</b> 1972
<b>D05-E</b>	<b>WINE, ALCOHOLIC BEVERAGES</b> Includes apparatus and methods for production.	<b>D05-H08</b>	<b>Cell or tissue culture general or unspecified</b> Search when the culture is not specified or when both of the sub-codes are applicable. 1972
<b>D05-E</b>	<b>General</b>	<b>D05-H08A</b>	<b>. Microorganism culture</b> Includes microbes. 2016
<b>D05-F</b>	<b>PASTEURISATION, STERILISATION, PRESERVATION, CLARIFICATION, AGEING ALCOHOLIC BEVERAGES</b>	<b>D05-H08B</b>	<b>. Animal/plant cells culture</b> Plant and animal cells. 2016
<b>D05-F</b>	<b>General</b>		
<b>D05-G</b>	<b>VINEGAR</b> Includes apparatus and methods for production.		
<b>D05-G</b>	<b>General</b>		
<b>D05-H</b>	<b>MICROBIOLOGY, LABORATORY PROCEDURES</b>		
<b>D05-H01</b>	<b>Culture media</b> 1972		
<b>D05-H02</b>	<b>Culture apparatus</b> 1972		
<b>D05-H03</b>	<b>Formation of microbial mutants</b> 1972		
<b>D05-H03A</b>	<b>. By random method-chemically or by irradiation</b> 1986		

<b>D05-H09</b>	<b>Testing and detection other than D05-H04, D05-H05 and D05-H06</b> May be used in combination with D05-H18B.	<b>1986</b>	<b>D05-H12A</b>	<b>. Wild-type coding sequences</b> Includes new genes and gene fragments. Wild-type (or "native") coding sequences code for the normal, functional version of a protein. Wild-type coding sequences that are fused to other sequences are searched under D05-H12A if they encode the major expression product, after any post-translational processing, e.g. after cleavage from a signal peptide.	<b>1994</b>
				<i>Previous code(s): D05-H12</i>	
<b>D05-H10</b>	<b>Fixing biological substances or cells to a carrier and the carriers themselves</b> Excludes microorganisms and enzymes. Microorganisms and enzymes bound to carriers are searched under D05-A codes.	<b>1986</b>	<b>D05-H12B</b>	<b>. Mutant sequences</b> Sequences which encode variant proteins (muteins) and truncated proteins, whether functional or not. Mutant coding sequences which are fused to other sequences are searched under D05-H12B if they encode the major expression product after any post-translational processing.	<b>1994</b>
<b>D05-H11</b>	<b>Antibodies</b> Restricted to monoclonal antibodies only prior to 1994.	<b>1986</b>		<i>Previous code(s): D05-H12</i>	
<b>D05-H11A</b>	<b>. Monoclonal antibodies</b> <i>Previous code(s): D05-H11</i>	<b>1994</b>	<b>D05-H12B1</b>	<b>.. Naturally occurring mutant sequences</b> e.g. mutant allele, polymorphism.	<b>1994</b>
<b>D05-H11A1</b>	<b>.. Monoclonal antibodies prepared by hybridoma techniques</b> <i>Previous code(s): D05-H11</i>	<b>1994</b>		<i>Previous code(s): D05-H12</i>	
<b>D05-H11A2</b>	<b>.. Monoclonal antibodies prepared by recombinant DNA techniques</b> Includes CDR-grafted, humanised and chimeric antibodies; antibodies produced in transgenic animals and antibodies or fragments thereof fused to physiologically active polypeptides such as enzymes or toxins. The production of engineered antibodies and fusion proteins comprising an antibody or antibody fragment is searched under D05-H17A1, D05-H17B1 or D05-H17C1 codes.	<b>1994</b>	<b>D05-H12B2</b>	<b>.. Engineered mutant sequences</b>	<b>1994</b>
				<i>Previous code(s): D05-H12</i>	
<b>D05-H11B</b>	<b>. Polyclonal antibodies</b>	<b>1994</b>	<b>D05-H12C</b>	<b>. Fusion genes, transgenes</b> Includes all fusion genes, transgenes, chimeric or hybrid genes coding for proteins in which all the fused regions are present in the functional translation product. Excludes constructs in which a coding sequence (wild-type or mutant) is fused to e.g. a secretion signal or protease cleavage site such that the major protein product following any post-translational processing is not the intact fusion protein. In these cases, the code D05-H12A or D05-H12B is applied as appropriate.	<b>1994</b>
<b>D05-H11C</b>	<b>. Abzyme</b> A catalytic antibody.	<b>2005</b>		<i>Previous code(s): D05-H12</i>	
<b>D05-H12</b>	<b>DNA, cDNA, transfer vectors, RNA</b>	<b>1986</b>	<b>D05-H12D</b>	<b>. DNA, cDNA, RNA non-coding sequences</b> <i>Previous code(s): D05-H12</i>	<b>1994</b>



<b>D05-H12D1</b>	<b>.. Primers, probes</b>	<b>1994</b>	<b>D05-H12E</b>	<b>. Vectors</b>	<b>1994</b>
	<i>Previous code(s): D05-H12</i>			Includes viral vectors (e.g. Baculovirus vectors, phagemids), plasmid vectors, cosmids and transposons.	
<b>D05-H12D2</b>	<b>.. Antisense sequences/constructs</b>	<b>1994</b>		<i>Previous code(s): D05-H12</i>	
	<i>Previous code(s): D05-H12</i>		<b>D05-H12F</b>	<b>. Recombinant viruses (excluding viral vectors)</b>	<b>1994</b>
<b>D05-H12D3</b>	<b>.. Triple-helix forming oligonucleotides</b>	<b>1994</b>		Includes recombinant viruses other than those used as vectors, e.g. viruses which have been attenuated for use in vaccines. Naturally occurring viral strains are searched under D05-H06.	
	<i>Previous code(s): D05-H12</i>			<i>Previous code(s): D05-H03B</i>	
<b>D05-H12D4</b>	<b>.. Ribozyme</b>	<b>1994</b>	<b>D05-H12G</b>	<b>. Reporter/marker nucleic acid</b>	<b>2009</b>
	<i>Previous code(s): D05-H12</i>				
<b>D05-H12D5</b>	<b>.. Transcription/translation regulation sequences</b>	<b>1994</b>	<b>D05-H12H</b>	<b>. Capped nucleic acid sequences</b>	<b>2024</b>
	Includes new or modified enhancers, promoters and upstream activating sequences.			Includes sequences with trinucleotide cap and trinucleotide mRNA cap. To be searched alongside all other applicable codes from D05-H: relating to the nucleic acid.	
	<i>Previous code(s): D05-H12</i>		<b>D05-H13</b>	<b>Recovery of biological substances and materials, ultra-filtration</b>	<b>1986</b>
<b>D05-H12D6</b>	<b>.. Other specified non-coding sequences</b>	<b>1994</b>	<b>D05-H14</b>	<b>Recombinant cells</b>	<b>1994</b>
<b>D05-H12D6A</b>	<b>... Aptamer</b>	<b>2006</b>		Host cells (prokaryotic and eukaryotic) transformed by a recombinant DNA vector.	
	<i>Previous code(s): D05-H12</i>		<b>D05-H14A</b>	<b>. Recombinant microbial cells (unspecified)</b>	<b>1994</b>
<b>D05-H12D7</b>	<b>.. DNzyme</b>	<b>2005</b>		<i>Previous code(s): D05-H03B</i>	
	Catalytic DNA sequence.		<b>D05-H14A1</b>	<b>.. Recombinant bacteria</b>	<b>1994</b>
<b>D05-H12D8</b>	<b>.. Short interfering RNA / micro RNA general</b>	<b>2005</b>		<i>Previous code(s): D05-H03B</i>	
<b>D05-H12D8A</b>	<b>... siRNA</b>	<b>2005</b>	<b>D05-H14A2</b>	<b>.. Recombinant fungi (including yeast)</b>	<b>1994</b>
	Double-stranded short RNA molecules which bind RNAs and target them for degradation and/or destruction.			<i>Previous code(s): D05-H03B</i>	
<b>D05-H12D8B</b>	<b>... miRNA</b>	<b>2005</b>	<b>D05-H14A3</b>	<b>.. Other recombinant microorganisms (e.g. Protozoa)</b>	<b>1994</b>
	Single-stranded RNA molecules which that are processed from larger stem-looped precursors by Dicer.			<i>Previous code(s): D05-H03B</i>	
<b>D05-H12D8C</b>	<b>... Small hairpin RNA</b>	<b>2006</b>	<b>D05-H14B</b>	<b>. Recombinant cell lines (unspecified)</b>	<b>1994</b>
<b>D05-H12D9</b>	<b>.. PNA</b>	<b>2005</b>			
	Peptide nucleic acids.		<b>D05-H14B1</b>	<b>.. Recombinant insect cells</b>	<b>1994</b>
<b>D05-H12D10</b>	<b>.. Aptamer</b>	<b>2006-2015</b>			
	Code retired. All instances in the backfile corrected to D05-H12D6A.				

<b>D05-H14B2</b>	.. <b>Recombinant mammalian cells</b> Excludes antibody-producing cells and hybridomas. Such cells are searched under D05-H15. <b>1994</b>	<b>D05-H17</b>	<b>Recombinant protein/polypeptide production</b> Production of polypeptides and proteins by recombinant DNA techniques is searched under D05-H17. Includes production of heterologous proteins in a genetically engineered host or transgenic organism, enhanced production of host proteins and production of genetically engineered antibodies. If the host is microbial, e.g. a bacterium or fungus, D05-H17 codes are applied in addition to the appropriate D05-C codes. <b>1994</b>
<b>D05-H14B3</b>	.. <b>Recombinant plant cells</b> <b>1994</b>		
<b>D05-H14B4</b>	.. <b>Other specified recombinant cell lines</b> <b>1994</b>		
<b>D05-H15</b>	<b>Antibody-producing cells, hybridomas</b> <b>1994-2014</b>		
<b>D05-H15A</b>	. <b>Antibody producing cells/hybridoma</b> A cell line for producing monoclonal antibodies; produced by fusing antibody-secreting B cells with lymphocyte tumor cells. <b>2005</b>	<b>D05-H17A</b>	. <b>Wild type protein/polypeptide production</b> Includes production of wild-type proteins with more than one subunit except where these are expressed as a fusion protein. <b>1994</b>
<b>D05-H15B</b>	. <b>Other chimeric/fused cells</b> Cell lines comprising or formed from components derived from 2 separate cell types, and excluding antibody producing hybridomas. <b>2005</b>	<b>D05-H17A1</b>	.. <b>Production of engineered wild-type antibodies</b> <b>1994</b>
<b>D05-H16</b>	<b>Transgenic organisms</b> <b>1994</b>	<b>D05-H17A2</b>	.. <b>Production of wild-type cytokine, lymphokine, growth factor, hormone</b> <b>1994</b>
<b>D05-H16A</b>	. <b>Transgenic animal</b> <b>1994</b>	<b>D05-H17A3</b>	.. <b>Production of wild-type enzyme</b> <b>1994</b>
<b>D05-H16B</b>	. <b>Transgenic plant</b> Includes plants cultured from cells which are manipulated by genetic engineering techniques. <b>1994</b>	<b>D05-H17A4</b>	.. <b>Production of wild-type receptor</b> <b>1994</b>
<b>D05-H16C</b>	. <b>Transomatic animal</b> An animal which has gene(s) from another cell or organism stably incorporated into some but not all cells. <b>2005</b>	<b>D05-H17A5</b>	.. <b>Production of wild-type antigen</b> <b>1994</b>
<b>D05-H16D</b>	. <b>Transomatic plant</b> <b>2005</b>	<b>D05-H17A6</b>	.. <b>Production of other specified wild-type protein</b> <b>1994</b>
		<b>D05-H17A7</b>	.. <b>Production of wild-type zinc finger protein</b> A protein which contains (or is capable of binding) zinc ions through cysteine residue (or a combination of cysteine and histidine residues). Zinc fingers function in helping some proteins that bind to DNA recognize that DNA. <b>2005</b>

<b>D05-H17B</b>	<ul style="list-style-type: none"> <li><b>. Mutant protein/polypeptide production</b> Includes production of mutant proteins comprising more than one subunit and production of proteins in which different subunits are derived from different sources, except where these are expressed as a fusion protein.</li> </ul>	1994	<b>D05-H18B</b>	<ul style="list-style-type: none"> <li><b>. Nucleic acid amplification, general or unspecified</b> Detection methods coded in D05-H04, D05-H05, D05-H06 or D05-H09 which rely on nucleic acid amplification e.g. for detection of specific microbial strains or specific polymorphisms are additionally searched under D05-H18B codes.</li> </ul>	1994
<b>D05-H17B1</b>	<ul style="list-style-type: none"> <li><b>.. Production of engineered mutant antibodies</b></li> </ul>	1994	<b>D05-H18B1</b>	<ul style="list-style-type: none"> <li><b>.. Thermocycling nucleic acid amplification method</b> Includes PCR and LCR.</li> </ul>	2022
<b>D05-H17B2</b>	<ul style="list-style-type: none"> <li><b>.. Production of mutant cytokine, lymphokine, growth factor, peptide hormone</b></li> </ul>	1994	<b>D05-H18B2</b>	<ul style="list-style-type: none"> <li><b>.. Isothermal and other nucleic acid amplification method</b></li> </ul>	2022
<b>D05-H17B3</b>	<ul style="list-style-type: none"> <li><b>.. Production of mutant enzyme</b></li> </ul>	1994	<b>D05-H19</b>	<ul style="list-style-type: none"> <li><b>Biological materials for use in genetic engineering (general)</b></li> </ul>	1994
<b>D05-H17B4</b>	<ul style="list-style-type: none"> <li><b>.. Production of mutant receptor</b></li> </ul>	1994	<b>D05-H19A</b>	<ul style="list-style-type: none"> <li><b>. Newly discovered restriction endonucleases and methylases</b></li> </ul>	1994
<b>D05-H17B5</b>	<ul style="list-style-type: none"> <li><b>.. Production of mutant antigen</b></li> </ul>	1994	<b>D05-H19B</b>	<ul style="list-style-type: none"> <li><b>. New or modified DNA polymerases, RNA polymerases</b> Includes reverse transcriptase.</li> </ul>	1994
<b>D05-H17B6</b>	<ul style="list-style-type: none"> <li><b>.. Production of other specified mutant protein</b></li> </ul>	1994	<b>D05-H19C</b>	<ul style="list-style-type: none"> <li><b>. CRISPR system</b> Clustered Regularly Interspaced Short Palindromic Repeats (includes claimed CRISPR enzymes e.g. Cas). This code covers either or both of the nucleic acid and the enzyme involved in the system.</li> </ul>	2015
<b>D05-H17B7</b>	<ul style="list-style-type: none"> <li><b>.. Production of mutant zinc finger protein</b></li> </ul>	2005	<b>D05-H20</b>	<ul style="list-style-type: none"> <li><b>Electroporation</b> Includes both apparatus and methods used for electroporation.</li> </ul>	2007
<b>D05-H17C</b>	<ul style="list-style-type: none"> <li><b>. Fusion protein/polypeptide production</b> Includes fusion proteins where the fused translation product remains intact as the functional (or multifunctional) protein, e.g. a cell-binding region fused to a catalytic region, a membrane-anchoring sequence fused to an antigenic region, etc. Excludes "fusion proteins" which undergo post-translational processing to produce separate protein entities. In these cases, the major cleavage product is coded in D05-H17A or D05-H17B, as appropriate.</li> </ul>	1994	<b>D05-H99</b>	<ul style="list-style-type: none"> <li><b>Patent with Geneseq record</b> For patents in D16 with associated Geneseq record.</li> </ul>	2017
<b>D05-H17C1</b>	<ul style="list-style-type: none"> <li><b>.. Production of fusion protein comprising an antibody or antibody fragments</b></li> </ul>	1994	<b>D05-H</b>	<ul style="list-style-type: none"> <li><b>General and others</b></li> </ul>	
<b>D05-H18</b>	<ul style="list-style-type: none"> <li><b>Genetic engineering techniques, new methods</b> Includes transfection techniques.</li> </ul>	1994	<b>D05-J</b>	<ul style="list-style-type: none"> <li><b>BREWING DEVICES</b> Including pitching, machines, and cellular tools</li> </ul>	
<b>D05-H18A</b>	<ul style="list-style-type: none"> <li><b>. Nucleic acid sequencing method</b></li> </ul>	1994	<b>D05-J</b>	<ul style="list-style-type: none"> <li><b>General</b></li> </ul>	

<b>D05-K</b>	<b>BIOLEACHING</b> Includes methods and processes of bioleaching, specific bioleaching microorganisms and improving conditions for bioleaching. Where the microorganisms are claimed as new, they will also be coded under the appropriate section from D05-H04, D05-H05 and/or D05-H06.	<b>2019</b>
<b>D05-K</b>	<b>General</b>	<b>2019</b>

## **D06 SUGAR AND STARCH INDUSTRY**

<b>D06-A</b>	<b>PROCESSING RAW MATERIALS</b> Including cutting mills, shredding knives, pulp presses.	
<b>D06-B</b>	<b>Treatment of sugar juices</b>	
<b>D06-C</b>	<b>Processing raw sugar</b> Includes centrifuging, sugar crystals, testing sugar solutions, purification.	
<b>D06-D</b>	<b>Evaporation apparatus; boiling pans; drying sugar</b>	
<b>D06-E</b>	<b>Cutting, sorting and packing of sugar, sugar lumps</b>	
<b>D06-F</b>	<b>Extraction of sugar from molasses</b>	
<b>D06-G</b>	<b>Other sugars</b>	
<b>D06-H</b>	<b>Polysaccharides general</b>	
<b>D06-H01</b>	. <b>Starch and derivatives, dextran</b>	<b>1986</b>
<b>D06-H02</b>	. <b>Cyclodextrin</b>	<b>1986</b>

## D07 SKINS, HIDES, PELTS, LEATHER, TOBACCO

<b>D07-A</b>	<b>Mechanical treatment of skins, hides, leather and pelts</b> Including cutting, stretching.
<b>D07-B</b>	<b>Chemical treatment of skins, hides, leather and pelts</b> Including dyeing, chemical dehairing and defatting.
<b>D07-C</b>	<b>Tobacco preparation and processing</b>
<b>D07-D</b>	<b>Chemical features or treatment of tobacco</b> Including filter tips, removal of nicotine, tobacco extracts.

## D08 COSMETICS, DENTAL, TOILET PREPARATIONS

<b>D08-A</b>	<b>DENTAL PREPARATIONS (GENERAL AND OTHERS)</b>	
<b>D08-A01</b>	<b>Fillings</b>	1986
<b>D08-A02</b>	<b>Adhesives and cements</b>	1986
<b>D08-A03</b>	<b>Artificial teeth, dentures, crowns, fixing devices for dentures, moulding devices</b> Excluding cements and adhesives.	1986
<b>D08-A04</b>	<b>Dental instruments, saliva pumps, syringes</b>	1986
<b>D08-A04A</b>	<b>. Dental cleaning device</b>	2011
<b>D08-A05</b>	<b>Anticaries compositions</b>	1986
<b>D08-A06</b>	<b>Dental plaster and dental impression devices</b>	1986
<b>D08-B</b>	<b>COSMETIC PREPARATIONS (GENERAL AND OTHERS)</b>	
<b>D08-B01</b>	<b>Make-up (and removing); luminescent pastes</b>	
<b>D08-B01A</b>	<b>. Eye make-up</b> e.g. eye shadow, eyeliner, mascara etc.	2005
<b>D08-B01B</b>	<b>. Lip products</b> e.g. lipsticks, lip gloss, lip liners etc.	2005
<b>D08-B01C</b>	<b>. Make-up</b> e.g. foundations and blushers.	2005
<b>D08-B01D</b>	<b>. Others</b>	2005
<b>D08-B01D1</b>	<b>.. Skin whitening agent</b> <i>Previous code(s): D08-B01D</i>	2007
<b>D08-B02</b>	<b>Nail care general</b> Only use this code if the description given in the patent is too vague to apply any of the more specific ones given below.	
<b>D08-B02A</b>	<b>. Nail polishes</b> Include thickeners, hardeners and bonding agents used in nail polish.	2011

<b>D08-B02B</b>	. <b>Nail polish removers</b>	2011	<b>D08-B09A2</b>	.. <b>Personal face and body wash</b>	2002
<b>D08-B02C</b>	. <b>Artificial nails</b> Include extended and fashion nails such as acrylic nails, sculptured nails and gelled nails.	2011	<b>D08-B09A2A</b>	... <b>Liquid personal face and body wash</b>	2007
<b>D08-B03</b>	<b>Care of hair (or promoting growth)</b>			<i>Previous code(s): D09-B09A2</i>	
<b>D08-B03A</b>	. <b>Products for promoting growth</b>	2005	<b>D08-B09A2B</b>	... <b>Solid personal face and body wash</b>	2007
<b>D08-B03B</b>	. <b>Hair conditioner</b> 2 in 1 shampoo and conditioners code here and also in D08-B04.	2005		<i>Previous code(s): D09-B09A2</i>	
<b>D08-B03C</b>	. <b>Others</b>	2005	<b>D08-B09A3</b>	.. <b>Anti-ageing preparations</b>	2002
<b>D08-B04</b>	<b>Rinsing the hair, shampoo</b>		<b>D08-B09B</b>	. <b>Antiperspirant deodorants</b> From 2005, this code has been expanded to cover both antiperspirants and deodorants.	1986
<b>D08-B05</b>	<b>Waving, straightening, fixing hair</b>		<b>D08-B09B1</b>	.. <b>Deodorant only</b>	2005
<b>D08-B06</b>	<b>Dyeing, bleaching hair</b>		<b>D08-B09B2</b>	.. <b>Antiperspirant only</b>	2005
<b>D08-B07</b>	<b>Depilatories, soapless shaving preparations</b>		<b>D08-B10</b>	<b>Carriers or bases for cosmetics</b>	1986
<b>D08-B08</b>	<b>Cleaning the teeth or mouth general</b>		<b>D08-B11</b>	<b>Antioxidants and stabilisers</b>	1986
<b>D08-B08A</b>	. <b>Toothpaste</b>	2002	<b>D08-B12</b>	<b>Perfume for cosmetics</b> D10-A05 may also be searched.	1986
<b>D08-B08B</b>	. <b>Mouthwash</b> Tooth cleaning composition in the form of a solution or emulsion designed to be used as a mouth wash.	2002	<b>D08-B13</b>	<b>Surfactants for cosmetics, excluding hair washing compositions, soap and mouth and dental preparations</b>	1986
<b>D08-B08C</b>	. <b>Gels</b>	2005	<b>D08-B14</b>	<b>Whitening teeth only</b> For whitening chewing gum use this code and D03-E09.	2005
<b>D08-B08D</b>	. <b>Strips</b>	2005	<b>D08-B14A</b>	. <b>Toothpaste</b> Includes tooth powder.	2005
<b>D08-B08E</b>	. <b>Floss</b> Includes dental tape.	2005	<b>D08-B14B</b>	. <b>Mouthwash</b>	2005
<b>D08-B09</b>	<b>Care of the skin, anti-perspirants, astringents general</b>	1971	<b>D08-B14C</b>	. <b>Gels</b>	2005
<b>D08-B09A</b>	. <b>Skin care general</b>	1986	<b>D08-B14D</b>	. <b>Strips</b>	2005
<b>D08-B09A1</b>	.. <b>Skin care</b>	2002	<b>D08-B15</b>	<b>Cellulite treatment</b>	2005
<b>D08-B09A1A</b>	... <b>Liquid skin care formulation</b>	2007	<b>D08-B</b>	<b>General and others</b>	
	<i>Previous code(s): D09-B09A1</i>		<b>D08-C</b>	<b>Animal use</b> Used for novelties where a code from D08-A and/or D08-B applies but solely for use with animals.	2005
<b>D08-B09A1B</b>	... <b>Solid skin care formulation</b>	2007			
	<i>Previous code(s): D09-B09A1</i>				

## D09 STERILISING AND DISINFECTING, BANDAGES AND DRESSINGS

<b>D09-A</b>	<b>DISINFECTION OR STERILISATION OTHER THAN OF FOOD OR AIR</b> Including preservation of bodies and their parts e.g. vital organs, cornea, semen, embryos.	
<b>D09-A01</b>	<b>Chemical methods</b>	1971
<b>D09-A01A</b>	. <b>Oxidising agents (including peroxides) halogens, halogen-generators (chlorisocyanurates) heavy metal compounds; other inorganics</b>	1977
<b>D09-A01B</b>	. <b>Phenolic compounds (including precursors such as esters); quaternary ammonium compounds (optionally cyclic); amine oxides, tropolones; sulfonium</b>	1977
<b>D09-A01C</b>	. <b>Antibiotics; other heterocyclics</b> Including ethylene oxide.	1977
<b>D09-A02</b>	<b>Physical method</b>	1971
<b>D09-A02A</b>	. <b>By irradiation</b> e.g. UV.	2011
<b>D09-A02B</b>	. <b>By heating</b>	2011
<b>D09-A02C</b>	. <b>By electrochemical methods</b> Disinfection by electrochemical methods.	2023
<b>D09-A03</b>	<b>Preservation of biological specimens and tissue</b>	2005
<b>D09-A03A</b>	. <b>Preservation of organs, other body tissues</b>	2011
<b>D09-A03B</b>	. <b>Preservation of plant tissues</b> e.g. flowers.	2011
<b>D09-A</b>	<b>General and others.</b>	
<b>D09-B</b>	<b>DISINFECTION AND STERILISATION OF AIR</b> Including purifying, deodorising and killing insects.	
<b>D09-B</b>	<b>General</b>	

<b>D09-B01</b>	<b>Deodorising/sterilising devices general</b> Apply codes from this section only if the device is claimed. May be used in conjunction with other D09-B codes if necessary.	2005
<b>D09-B01A</b>	. <b>Using heating elements</b> e.g. vaporisers, evaporators and plug-ins.	2005
<b>D09-B01B</b>	. <b>Using sprayers/atomisers</b> e.g. aerosols, pumps and misting devices.	2005
<b>D09-B01C</b>	. <b>Passive means</b> Spreading a substance by convection or sachets.	2005
<b>D09-B02</b>	<b>Candles used in disinfection / deodorisation of air</b>	2005
<b>D09-B03</b>	<b>Creation of aseptic environment</b> Used for processes and apparatus designed to create a sterile atmosphere within a room, especially an operating theatre or food preparation plant.	2005
<b>D09-B04</b>	<b>Perfuming of air (masking)</b>	2005
<b>D09-B05</b>	<b>Neutralising odour causing substances</b> e.g. cat litter.	2005
<b>D09-B06</b>	<b>Killing/controlling insects (in a room)</b>	2005
<b>D09-B07</b>	<b>By irradiation</b>	2011
<b>D09-C</b>	<b>BANDAGES, DRESSINGS</b>	
<b>D09-C01</b>	<b>Prostheses, implants</b> Prior to 2010 this code did not cover implants. From 2010, D09-C01F has been introduced to cover implants, hence the addition of implants to the general D09-C01 code. Excludes dentures, false nails, eyelashes and wigs.	1972
<b>D09-C01A</b>	. <b>Lenses</b>	1986
<b>D09-C01B</b>	. <b>Blood vessels</b>	1986
<b>D09-C01C</b>	. <b>Organs, heart, heart valves, pancreas</b>	1986

<b>D09-C01D</b>	. <b>Artificial joints and limbs, artificial bone, tendons</b> Includes bone adhesive, bone cement. <b>1986</b>	<b>D09-E</b>	<b>CHEMICAL PROTECTION OF SKIN</b>
<b>D09-C01E</b>	. <b>Tissue engineering scaffold</b> Includes all processes and chemicals used in the production of the scaffolds. <b>2007</b> <i>Previous code(s): D09-C</i>	<b>D09-E</b>	<b>General</b> e.g. chemical agents brought into direct contact with the skin of living human or animal bodies to afford protection against external influences (sunlight, X or other active rays, corrosive liquids or solids, bacteria, insect stings. Includes barrier creams).
<b>D09-C01F</b>	. <b>Catheters, stents, implants</b> <b>2010</b>	<b>D09-E01</b>	<b>Sunscreen</b> <b>2002</b>
<b>D09-C02</b>	<b>Catamenial devices with special shape</b> Including production. <b>1972</b>	<b>D09-E02</b>	<b>Insect repellents</b> <b>2002</b>
<b>D09-C02A</b>	. <b>Tampons</b> <b>2005</b>	<b>D09-E03</b>	<b>Barrier creams</b> Applied to skin to create physical barrier between skin and substances which may cause skin irritation, e.g. caustic chemicals. <b>2002</b>
<b>D09-C02B</b>	. <b>Other sanitary products</b> E.g. sanitary napkins. <b>2005</b>		
<b>D09-C03</b>	<b>Baby nappy</b> Disposable diaper. <b>1972</b>		
<b>D09-C04</b>	<b>Others with special shape</b> Including production general. <b>1972</b>		
<b>D09-C04A</b>	. <b>Cataplasms, poultices (for applying heat to a body part)</b> <b>1986</b>		
<b>D09-C04B</b>	. <b>Adhesive plasters, bandages, wound dressings</b> <b>1986</b>		
<b>D09-C04C</b>	. <b>Splints (external)</b> For internal see D09-C01. <b>1986</b>		
<b>D09-C04D</b>	. <b>Surgical gowns, protective clothing</b> <b>1986</b>		
<b>D09-C04E</b>	. <b>Adult incontinence pads</b> <b>2005</b>		
<b>D09-C05</b>	<b>Water repellent materials for use as above</b> <b>1972</b>		
<b>D09-C06</b>	<b>Water absorbent materials for use as above</b> <b>1972</b>		
<b>D09-C</b>	<b>General and others</b>		
<b>D09-D</b>	<b>SURGICAL SUTURE MATERIALS</b>		
<b>D09-D</b>	<b>General</b>		



**D10 ANIMAL AND VEGETABLE OILS**

<b>D10-A</b>	<b>OILS AND FATS, PERFUMES</b>	
<b>D10-A01</b>	Fats or oils production from raw materials	
<b>D10-A02</b>	Refining fats or oils	
<b>D10-A03</b>	Preserving by use of additives	
<b>D10-A04</b>	Separation of mixtures into constituents e.g. saturated from unsaturated oils.	
<b>D10-A05</b>	Essential oils, perfumes general	
<b>D10-A05A</b>	. Essential oils	1986
<b>D10-A05B</b>	. Perfume compositions for rooms e.g. stone impregnated with perfume with sustained release effect.	1986
<b>D10-A05C</b>	. Perfumes other than above	1986
<b>D10-A06</b>	Compositions containing oils and fat	1971
<b>D10-A</b>	General and others Except D03-C and D10-B03.	
<b>D10-B</b>	<b>FATTY ACIDS, CANDLES</b>	
<b>D10-B01</b>	Fatty acids preparation from fats, oils or waxes; refining	
<b>D10-B02</b>	Chemical modification of fats, oils, fatty acids	
<b>D10-B03</b>	Candles	
<b>D10-B04</b>	Compositions containing fatty acids Except D11-C	1971
<b>D10-B</b>	Unclassified	

**D11 DETERGENTS, SOAP, GLYCEROL**

<b>D11-A</b>	<b>SURFACE ACTIVE NON-SOAP DETERGENTS</b>	
<b>D11-A01</b>	Anionic compounds	
<b>D11-A01A</b>	. Carboxylic acids, salts and substituted derivatives Except soap.	1972
<b>D11-A01A1</b>	.. Contains free carboxylic acid group(s)	1986
<b>D11-A01A2</b>	.. Contains carboxylic acid ester group(s), but no free carboxylic acid groups	1986
<b>D11-A01A3</b>	.. Contains carboxylic amide group(s) but no carboxylic acid or ester group	1986
<b>D11-A01B</b>	. Sulfonic acids and esters	1972
<b>D11-A01B1</b>	.. Aryl sulfonic acid Sulfonic acid group linked via the sulfur atom to the aromatic ring.	1986
<b>D11-A01B2</b>	.. Aliphatic sulfonic acid Sulfonic acid group linked via the sulfur atom to the aliphatic chain	1986
<b>D11-A01C</b>	. Lignin sulfonates and derivatives	1972
<b>D11-A01D</b>	. Protein hydrolysates, fatty acid condensates thereof	1972
<b>D11-A01E</b>	. Derivatives of acids of P	1972
<b>D11-A01F</b>	. Sulfate esters	1972
<b>D11-A01F1</b>	.. Unsubstituted alkyl sulfates	1986
<b>D11-A01F2</b>	.. (Poly)ethoxylated sulfates with one or more ethyleneoxy groups	1986
<b>D11-A02</b>	Cationic compounds	
<b>D11-A02A</b>	. Heterocyclic quaternary ammonium with N+ in ring	1986

<b>D11-A02B</b>	. <b>Quaternary ammonium not in heterocyclic ring</b> 1986	<b>D11-A07</b>	<b>Anionic and non-ionic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A02B1</b>	.. <b>Containing amide group</b> 1986	<b>D11-A08</b>	<b>Cationic and cationic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A02B2</b>	.. <b>Containing ether or OH groups</b> Excluding D11-A02B1. 1986	<b>D11-A09</b>	<b>Cationic and non-ionic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A03</b>	<b>Non-ionic compounds</b>	<b>D11-A10</b>	<b>Non-ionic and non-ionic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A03A</b>	. <b>Polyalkylene oxides</b> 1986	<b>D11-A11</b>	<b>Anionic, cationic and non-ionic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A03A1</b>	.. <b>Polyalkylene glycol ethers with higher alcohols and cycloalkanols</b> 1986	<b>D11-A12</b>	<b>Ampholytes and anionic and/or cationic and/or non-ionic detergent mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972
<b>D11-A03A2</b>	.. <b>Polyalkylene glycol ethers with phenols</b> 1986	<b>D11-A</b>	<b>Detergents and their mixtures - general</b>
<b>D11-A03A3</b>	.. <b>Polyalkylene glycol ethers with polyols</b> e.g. glycerol, sorbitan. 1986	<b>D11-B</b>	<b>NON SURFACE ACTIVE DETERGENT ADDITIVES</b> This code is only applied if five or more of the D11-B sub-codes would be applicable.
<b>D11-A03A4</b>	.. <b>Polyalkylene glycol esters with higher carboxylic acids</b> 1986	<b>D11-B01</b>	<b>Bleaching agents; optical brighteners</b> 1971
<b>D11-A03A5</b>	.. <b>Polyalkylene glycol ethers with substituted alkanols</b> e.g. long chain amides of monoethanolamine. 1986	<b>D11-B01A</b>	. <b>Organic bleaches</b> e.g. peroxy-carboxylic acids.
<b>D11-A03B</b>	. <b>Glycosides (as surfactants)</b> 1994 <i>Previous code(s): D11-A03</i>	<b>D11-B01B</b>	. <b>Inorganic bleaches</b> e.g. hydrogen peroxide, hypochlorite.
<b>D11-A04</b>	<b>Ampholytes, electroneutral compounds</b>	<b>D11-B01C</b>	. <b>Optical brighteners, anti-greying agents, blueing agents</b>
<b>D11-A04A</b>	. <b>Containing quaternary ammonium group(s) and sulfonate group(s)</b> 1986	<b>D11-B01D</b>	. <b>Bleach activators and catalysts</b> 1994 <i>Previous code(s): D11-B01</i>
<b>D11-A04B</b>	. <b>Containing quaternary ammonium group(s) and carboxy group(s) but no sulfonate group(s)</b> 1986	<b>D11-B01D1</b>	.. <b>Bleach activators</b> Includes acyloxybenzene sulfonates, acyloxybenzoic acid, N-acyl lactams and tetraacetythylenediamine. 2005
<b>D11-A04C</b>	. <b>Amine oxide type compounds</b> 2005		
<b>D11-A05</b>	<b>Anionic and anionic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972		
<b>D11-A06</b>	<b>Anionic and cationic mixtures</b> From 197701 also search D11-A01: to D11-A04: 1972		

<b>D11-B01D2</b>	<b>.. Bleach catalysts</b> Includes various transition metal complexes and free radical generators such as azobisisobutyronitrile. 2005	<b>D11-B11C</b>	<b>. Inorganic carbonates</b>	
<b>D11-B01D3</b>	<b>.. Enzymatic bleaches</b> Bleach compositions that use an enzyme as the active ingredient. 2005	<b>D11-B11D</b>	<b>. Alkalis</b>	2005
<b>D11-B01E</b>	<b>. Bleach boosters</b> Compounds added to bleach compositions which are not themselves bleaches but which do increase bleaching power of the composition. 2005	<b>D11-B12</b>	<b>Stabilisers (various)</b>	1972
<b>D11-B02</b>	<b>Enzyme additives</b> The detergent composition comprises enzymes, e.g. proteases. 1972	<b>D11-B13</b>	<b>Acids</b>	1972
<b>D11-B03</b>	<b>Builders</b>	<b>D11-B14</b>	<b>Antimicrobial agents</b>	1972
<b>D11-B04</b>	<b>Anticaking agents and soil suspending agents</b>	<b>D11-B15</b>	<b>Fabric softeners and conditioners</b> Do not also search D11-D07. 1972	
<b>D11-B05</b>	<b>Antitarnishing agents</b>	<b>D11-B15A</b>	<b>. Concentrated form</b>	
<b>D11-B06</b>	<b>Sequestering agents</b>	<b>D11-B15B</b>	<b>. Other liquid fabric softeners and conditioners</b>	
<b>D11-B07</b>	<b>Foam promoters</b>	<b>D11-B15C</b>	<b>. Other special forms of softeners and conditioners</b>	
<b>D11-B08</b>	<b>Foam inhibitors</b>	<b>D11-B16</b>	<b>Solubilisers (solvents, hydrotopes)</b>	1977
<b>D11-B09</b>	<b>Abrasives</b>	<b>D11-B17</b>	<b>Organic non-polymeric sulfur containing compound</b>	
<b>D11-B10</b>	<b>Carbohydrates, starch and cellulose derivatives</b>	<b>D11-B18</b>	<b>Organic non-polymeric phosphorus containing compounds</b>	
<b>D11-B11</b>	<b>Silicates, carbonates, alkali, silicones, siloxanes</b>	<b>D11-B19</b>	<b>Organic polymers</b> Excluding polysaccharides (D11-B10) and polysiloxanes (D11-B11).	
<b>D11-B11A</b>	<b>. Inorganic silicates</b> Including clays and zeolites. 2005	<b>D11-B20</b>	<b>Inorganic nitrogen containing compound</b>	
<b>D11-B11B</b>	<b>. Organic silicon compounds general</b>	<b>D11-B21</b>	<b>Inorganic phosphorus containing compound</b>	
<b>D11-B11B1</b>	<b>.. Reactive silicon compounds</b> Includes silazanes. 2005	<b>D11-B22</b>	<b>Other inorganic additives</b> Excluding D11-B11.	
<b>D11-B11B2</b>	<b>.. Inert silicon compound</b> Includes silicones and siloxanes unless they have pendant reactive groups. 2005	<b>D11-B23</b>	<b>Perfume or odourant for detergents</b>	
		<b>D11-B24</b>	<b>Thickeners</b> Substances added to a detergent composition in order to increase its viscosity. If a specific type of thickener is used also apply the appropriate D11-B structural code (e.g. if cellulose is used as the thickener add D11-B10). 2005	
		<b>D11-B</b>	<b>General and others</b>	
		<b>D11-C</b>	<b>SOAP DETERGENT COMPOSITIONS</b>	
		<b>D11-C01</b>	<b>Use general</b>	
		<b>D11-C01A</b>	<b>. Soap bars</b>	
		<b>D11-C01B</b>	<b>. Soap powders</b>	

<b>D11-C01C</b>	. <b>Liquid soaps</b>		<b>D11-D01G</b>	. <b>Detergents effective at high temperatures</b>	1986
<b>D11-C02</b>	<b>Soap compositions without special shape and without non-soap detergents</b>		<b>D11-D01H</b>	. <b>Laundry compositions</b>	2005
<b>D11-C03</b>	<b>Soap with non-soap detergents</b>		<b>D11-D01J</b>	. <b>Personal care compositions</b>	2005
<b>D11-C</b>	<b>Soap detergent compositions</b>		<b>D11-D02</b>	<b>Detergent compositions with special shape or colour</b>	1971
<b>D11-D</b>	<b>SPECIAL METHODS OR DETERGENT MATERIALS</b>		<b>D11-D02A</b>	. <b>Tablet or other moulded article</b>	2005
<b>D11-D01</b>	<b>Detergent compositions with special uses</b>	1971	<b>D11-D02B</b>	. <b>Capsule</b> Includes microcapsules.	2005
<b>D11-D01A</b>	. <b>Dishwashing, bottle and utensil washing</b> Including china, glass and plastic.	1986	<b>D11-D02C</b>	. <b>Sprays</b>	2005
<b>D11-D01B</b>	. <b>Heavy duty hard surface cleaner</b> e.g. paintwork, plastic surfaces, baths (excluding plastic baths), walls, tiles, stone, machinery, surgical instruments, cars, aircraft, boilers, ships and metal articles.	1986	<b>D11-D02D</b>	. <b>Other</b>	2005
<b>D11-D01B1</b>	.. <b>Oven cleaners</b>	2005	<b>D11-D03</b>	<b>Powders, flakes and granules production</b>	1972
<b>D11-D01B2</b>	.. <b>Flux removers</b>	2005	<b>D11-D04</b>	<b>Pastes, gels and scouring composition production</b>	1972
<b>D11-D01B3</b>	.. <b>Other abrasive type household surface cleaners</b>	2005	<b>D11-D05</b>	<b>Sulfonation processes for preparing detergents</b>	1971
<b>D11-D01B4</b>	.. <b>Other bleach based household surface cleaners</b>	2005	<b>D11-D06</b>	<b>Biodegradable detergents</b>	1972
<b>D11-D01B5</b>	.. <b>Other household surface cleaners</b>	2005	<b>D11-D07</b>	<b>Liquid detergent compositions</b>	1977
<b>D11-D01B6</b>	.. <b>Other industrial hard surface cleaners</b>	2005	<b>D11-D07A</b>	. <b>Heavy duty laundry detergents</b> For use in automatic washing machines.	2005
<b>D11-D01C</b>	. <b>Glass or window cleaner, (contact) lens cleaners</b>	1986	<b>D11-D07B</b>	. <b>Light duty liquid laundry detergents</b> For use in hand washing of clothes.	2005
<b>D11-D01D</b>	. <b>Lavatory cleaner</b> Includes toilet cleaner.	1986	<b>D11-D07C</b>	. <b>Liquid laundry detergents with special use</b>	2005
<b>D11-D01E</b>	. <b>Drain or sink cleaner</b> For unblocking sewer pipes or helping to prevent the occurrence of clogged drains.	1986	<b>D11-D07C1</b>	.. <b>Colour care</b>	2005
<b>D11-D01F</b>	. <b>Detergents effective at low temperatures</b>	1986	<b>D11-D07C2</b>	.. <b>Combined detergent / fabric softener</b>	2005
			<b>D11-D07C3</b>	.. <b>Liquid laundry detergents with bleach (stain removers)</b>	2005
			<b>D11-D07D</b>	. <b>Liquid dishwashing detergents</b>	2005

<b>D11-D07E</b>	. <b>Automatic dishwashing rinse aids</b>	<b>2005</b>
<b>D11-D07F</b>	. <b>Liquid soap type (hand washing compositions)</b>	<b>2005</b>
<b>D11-D07G</b>	. <b>Others</b>	<b>2005</b>
<b>D11-D08</b>	<b>Granular laundry detergent compositions</b> Use when the actual composition rather than its means of manufacture is claimed.	<b>2005</b>
<b>D11-D</b>	<b>General and others</b>	
<b>D11-E</b>	<b>SOAP-MAKING, GLYCEROL</b>	
<b>D11-E01</b>	<b>Resin soaps from naphthenic acids</b>	
<b>D11-E02</b>	<b>Glycerol recovery from saponification liquor</b> For refining see E10-E04+.	
<b>D11-F</b>	<b>DETERGENTS WITHOUT TENSIDES</b>	
<b>D11-F</b>	<b>General</b>	

**E:  
GENERAL CHEMICALS**

- E01 Steroid
- E02 Antibiotic
- E03 Vitamin
- E04 Other Natural Materials
- E05 Miscellaneous Organic
- E06 Heterocyclic Fused Rings
- E07 Heterocyclic, Mononuclear
- E08 Aromatic, Polycarbocyclic
- E09 Alicyclic, Polycarbocyclic
- E10 Aromatic and Cyclo Aliphatic  
(Mono and Bicyclic only),  
Aliphatic
- E11 Processes, Apparatus
- E12 Physical Form
- E21 Azo Dyes
- E22 Anthraquinone Dyes
- E23 Phthalocyanine (Macrocyclic)  
Dyes
- E24 Special Class of Dye
- E25 General and Other Dyes
- E26 Dye Precursors excluding  
E21-E, E24-B
- E27 Dye Formulations;  
Morphology
- E31 Non-metallic Elements,  
Metalloids and Compounds
- E32 Ammonia, Cyanogen and  
Compounds
- E33 Alkali Metal Compounds
- E34 Compounds of Be, Mg, Al, Ca,  
Sr, Ba, Ra, Th, Rare Earth
- E35 Compounds of Other Metals

## E: GENERAL CHEMICALS

General Chemical manual codes have been divided into four main sections:-

E01-E11: Organic chemistry (**E1**)

E12: Physical form

E21-E27: Organic Dyes, Pigments (**E2**)

E31-E35: Inorganic Chemistry (**E3**)

A compound is generally classified in only one of sections (E1), (E2) or (E3), except that:

- a organic complexes or salts having an important inorganic component are also coded in section (E3) with the addition of codes E05-S or E05-T, and
- b E26 compounds which are not themselves dyes are also coded in section (E1).
- c. E12 codes are applied in addition to E1 or E3 codes. Compounds classified in E2 have their own physical form manual codes (see E27-B Morphology).

### Coding rules

1. For **organic salts and complexes** containing more than one essential specific component, each component (e.g. anion and cation of a salt) is coded separately.
2. **Production** is used to cover new compounds, purification, isolation, storage and chemical processes for producing a known compound and chemical processes where the end-product is a mixture of compounds.
3. **Use** covers all other inventive features, e.g. compositions, physical processes for producing mixtures, and detection, testing and removal of compounds.
4. **Inorganic carbon compounds:** The following compounds (including those where S-atoms are replaced by Se or Te) are coded as inorganic:- carbides, graphite compounds, CO, metal carbonyls (see metal), CO<sub>2</sub>, COS, CS<sub>2</sub>, COX<sub>2</sub>, CSX<sub>2</sub> (where X are same or different halogens), metal salts of (thio)carbonic or of (thio) carbamic acid\*, (thio)-cyanogen, cyanamide\*, HCN, HCNO, HCNS, (thio)-cyanogen halides and fulminates. Please note other carbon oxides are coded as organic, as are (thio)ureas and dicyandiamides.

\*For some (early) references, these compounds have been coded as organic.

5. **Enol-keto (thiol-thiono) tautomers** and their derivatives (e.g. oximes but not phenols) are always coded as keto (thiono) structures and **amino-imino tautomers** are always coded as amino structures; the rules are the same as for the fragmentation code.

### Note

1. Where a code refers to the number of groups present, this refers to the molecule (or ion) as a whole, unless stated otherwise.
2. When a specific code is searched, the corresponding generic code(s) (used for general disclosures which would otherwise require several specific codes) must also be searched for complete coverage.

Section E codes commenced at 197001.

## E01-E11 ORGANIC CHEMISTRY (E1)

In section (E1) a single compound is normally assigned just one code in order of priority:-

E01 > E05 > E06 > E07 > E08 > E09 > E10

Within each of the basic groups E05\*, E06 and E07 codes for all essential elements or rings are applied whereas in E08, E09 and E10 only one code is applied.

\*From 199401 the inclusion of fullerenes within section E05 has resulted in an alteration to this rule; codes for all essential elements in a heterofullerene are **not applied** - they receive code E05-U01 only. e.g. Hf in C<sub>60</sub> codes E05-U01 only, **not** E05-N, E05-U01.

### Note

1. E02, E03 and E04 are very rarely used because, for known structures, only the chemical structure codes are applied.
2. Codes from E11 are applied where there is insufficient (chemical) information and to highlight general and analytical processes.

**E01 STEROID**

Includes all compounds containing a cyclopenta(a) phenanthrene ring system, optionally fused with other rings; **not** coded elsewhere unless additionally as dyes.

<b>E01</b>	<b>GENERAL</b>	
<b>E01-P</b>	<b>Steroid - production</b> Used for any specified method of producing steroids.	<b>2010</b>
<b>E01-U</b>	<b>Steroid - use</b> Used for any specified use of steroids	<b>2010</b>

**E02 ANTIBIOTIC**

Antibiotic with unknown structure.

<b>E02</b>	<b>GENERAL</b>	
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**E03 VITAMIN**

Vitamin with unknown structure.

<b>E03</b>	<b>GENERAL</b>	
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**E04 OTHER NATURAL MATERIALS**

<b>E04-A</b>	<b>ALKALOID, PLANT EXTRACT</b> Alkaloid, plant extract with unknown structure.	
<b>E04-B</b>	<b>ANIMAL EXTRACT, MICROBIOLOGICAL</b> Animal extract, microbiological with unknown structure.	
<b>E04-C</b>	<b>SUGAR OF UNKNOWN CONSTITUTION; OTHER NATURAL PRODUCT</b> Sugar of unknown constitution; other natural product with unknown structure.	

**E05 MISCELLANEOUS ORGANIC**

This section contains:

- all organic compounds containing elements other than H, C, N, O, S, and halogen
- all compounds containing specific isotopes
- all radioactive organic and inorganic compounds
- all compounds containing halogen as hetero-ring member
- all fullerene type cage structures (from 199401)
- all organics containing inorganic ligand as essential component; the latter is coded in section (**E3**) and E05-S or E05-T if appropriate.

**Note**

1. Organic compounds containing metals are coded in E05 only if the metal either: (a) forms an important limiting factor of the invention or (b) is attached to organic C-atom or (c) is radioactive or contains a specific isotope. Thus metal salts of organic acids are generally coded only in E05, but for alkali(ne earth) or Al salts see first the code for the acid, then E05-A or E05-B. These latter codes are used only if the metal is the limiting factor.
2. From 199401, fullerene type cage structures have been included in this section commencing at code E05-U. Previously, these compounds had been coded in section (**E3**), i.e. E31-N+ for carbon only fullerenes (e.g. Buckminsterfullerene). For fullerenes containing heteroatom(s) of greater priority than carbon, relevant codes corresponding to that atom had been applied.

<b>E05-A</b>	<b>ALKALI METAL</b>	
<b>E05-A</b>	<b>Lithium (Li), sodium (Na), potassium (K), rubidium (Rb), cesium (Cs) - general</b>	
<b>E05-A01</b>	<b>Lithium (Li) compounds</b> Organo Lithium compound.	<b>2005</b>
<b>E05-A02</b>	<b>Sodium (Na), potassium (K), cesium (Cs), rubidium (Rb) compounds</b> Organo compounds of Na, K, Cs and/ or Rb.	<b>2005</b>



<b>E05-B</b>	<b>ALKALI EARTH METAL, ALUMINIUM (AL)</b>	
<b>E05-B</b>	<b>General</b>	
<b>E05-B01</b>	<b>Beryllium (Be), magnesium (Mg), calcium (Ca), strontium (Sr), barium (Ba)</b>	1975
<b>E05-B02</b>	<b>Compound having aluminium-C (Al-C) bond</b>	1975
<b>E05-B03</b>	<b>Other aluminium (Al) compound</b>	1975
<b>E05-C</b>	<b>BORON</b>	
<b>E05-C</b>	<b>General</b>	
<b>E05-C01</b>	<b>Boron (B) in a ring</b>	1994
	<i>Previous code(s): E05-C</i>	
<b>E05-C02</b>	<b>Other boron (B) compound</b>	1994
	<i>Previous code(s): E05-C</i>	
<b>E05-D</b>	<b>PERIODIC GROUP IIIB</b> Excluding B, Al.	
<b>E05-D</b>	<b>Gallium (Ga), indium (In), thallium (Tl) - general</b>	
<b>E05-E</b>	<b>SILICON</b> In order of priority: E05-E01 > E05-E02 > E05-E03.	
<b>E05-E</b>	<b>General</b>	
<b>E05-E01</b>	<b>Heterocyclic or aromatic with Si-C bond</b>	
<b>E05-E01A</b>	<b>. Si as part of a ring</b>	2005
<b>E05-E01B</b>	<b>. Heterocyclic compound with Si-C bond</b>	2005
<b>E05-E01C</b>	<b>. Aromatic compound with Si-C bond</b>	2005
<b>E05-E02</b>	<b>(Cyclo)aliphatic with Si-C bond - general</b>	1975
<b>E05-E02A</b>	<b>. 4 Si-C bonds to one Si</b>	1986
<b>E05-E02B</b>	<b>. 3 Si-C bonds to one Si</b>	1986
<b>E05-E02C</b>	<b>. 2 Si-C bonds to one Si</b>	1986
<b>E05-E02D</b>	<b>. 1 Si-C bond to one Si</b>	1986
<b>E05-E03</b>	<b>Other organo-silicon compound</b>	
<b>E05-E03A</b>	<b>. O-Si bonds only</b> Compound containing O-Si bonds only. Used for tetrahydrocarbyloxysilanes and hydrocarbylsilicates.	2005
<b>E05-E03B</b>	<b>. Other silicon compounds</b>	2005
<b>E05-F</b>	<b>PERIODIC GROUP IVB</b> Excluding C, Si.	
<b>E05-F</b>	<b>Germanium (Ge), tin (Sn), lead (Pb) - general</b>	
<b>E05-F01</b>	<b>Compound with tin-C (Sn-C) bond</b>	1975
<b>E05-F02</b>	<b>Other compound of germanium (Ge), tin (Sn), lead (Pb)</b>	
<b>E05-F02A</b>	<b>. Germanium (Ge) compound</b> Organogermanium compound.	2005
<b>E05-F02B</b>	<b>. Other tin (Sn) compound</b> Organotin compound not containing Sn-C bond(s).	2005
<b>E05-F02C</b>	<b>. Lead (Pb) compound</b> Organolead compound.	2005
<b>E05-G</b>	<b>PHOSPHORUS</b> In order of priority: E05-G01 > E05- G02...	
<b>E05-G</b>	<b>General</b>	
<b>E05-G01</b>	<b>P-C bond, heterocyclic compound</b>	
<b>E05-G02</b>	<b>P-C bond, aromatic compound</b>	
<b>E05-G03</b>	<b>P-C bond, aliphatic or alicyclic compound - general</b>	
<b>E05-G03A</b>	<b>. phosphonium; or with P-C multiple bond, P-hal or P-N</b>	1975
<b>E05-G03B</b>	<b>. with 3-valent P (and addition complexes)</b>	1975
<b>E05-G03C</b>	<b>. with 5-valent P and &gt;1 P-C bonds</b>	1975
<b>E05-G03D</b>	<b>. with 5-valent P and 1 P-C bond</b>	1975
<b>E05-G04</b>	<b>P-N bond, heterocyclic compound</b>	
<b>E05-G05</b>	<b>P-N bond, aromatic compound</b>	
<b>E05-G06</b>	<b>P-N bond, aliphatic or alicyclic compound</b>	
<b>E05-G07</b>	<b>P-O or P-S bond, heterocyclic compound</b>	

<b>E05-G08</b>	<b>P-O or P-S bond, aromatic compound</b>		<b>E05-M</b>	<b>2ND TRANSITION SERIES</b>
<b>E05-G09</b>	<b>P-O or P-S bond, aliphatic or alicyclic compound - general</b>		<b>E05-M</b>	<b>Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Cd - general</b>
<b>E05-G09A</b>	<b>. with P-hal, P-S or &gt;1 P</b>	1975	<b>E05-M01</b>	<b>Zirconium (Zr) compound</b>
<b>E05-G09B</b>	<b>. with 3-valent P or tautomeric 3-5 valent P</b>	1975	<b>E05-M02</b>	<b>Ruthenium (Ru), rhodium (Rh), palladium (Pd) compound - general</b>
<b>E05-G09C</b>	<b>. mono, di or tri-unsubstituted alkyl orthophosphate (or salt)</b>	1975	<b>E05-M02A</b>	<b>. Ruthenium (Ru) compound</b>
<b>E05-G09D</b>	<b>. other 5-valent P compound</b>	1975	<b>E05-M02B</b>	<b>. Rhodium (Rh) compound</b>
<b>E05-H</b>	<b>ARSENIC</b>		<b>E05-M02C</b>	<b>. Palladium (Pd) compound</b>
<b>E05-H</b>	<b>General</b>		<b>E05-M03</b>	<b>Y, Nb, Mo, Tc, Ag, Cd - general</b>
<b>E05-J</b>	<b>ANTIMONY, BISMUTH</b>		<b>E05-M03A</b>	<b>. Niobium (Nb), technetium (Tc), cadmium (Cd) compound</b>
<b>E05-J</b>	<b>General</b>		<b>E05-M03B</b>	<b>. Silver (Ag) compound</b>
<b>E05-K</b>	<b>SELENIUM (SE), TELLURIUM (TE), NOBLE GAS, HALOGEN IN RING</b> Excluding At, Rn, E05-Q.		<b>E05-M03C</b>	<b>. Molybdenum (Mo) compound</b>
<b>E05-K</b>	<b>General</b>		<b>E05-M03D</b>	<b>. Yttrium (Y) compound</b>
<b>E05-L</b>	<b>1ST TRANSITION SERIES</b>		<b>E05-N</b>	<b>3RD TRANSITION SERIES</b>
<b>E05-L</b>	<b>General</b>		<b>E05-N</b>	<b>Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg - general</b>
<b>E05-L01</b>	<b>Titanium (Ti) compound</b>		<b>E05-N01</b>	<b>Hafnium (Hf) compound</b>
<b>E05-L02</b>	<b>Iron (Fe), cobalt (Co), nickel (Ni) compound - general</b>			2005
<b>E05-L02A</b>	<b>. Iron (Fe) compound</b>	1986	<b>E05-N02</b>	<b>Os, Ir, Pt - general</b>
<b>E05-L02B</b>	<b>. Cobalt (Co) compound</b>	1986	<b>E05-N02A</b>	<b>. Osmium (Os) compound</b>
<b>E05-L02C</b>	<b>. Nickel (Ni) compound</b>	1986	<b>E05-N02B</b>	<b>. Iridium (Ir) compound</b>
<b>E05-L03</b>	<b>Scandium (Sc), vanadium (V), chromium (Cr), manganese (Mn), copper (Cu), zinc (Zn) compound - general</b>		<b>E05-N02C</b>	<b>. Platinum (Pt) compound</b>
<b>E05-L03A</b>	<b>. Scandium (Sc), vanadium (V), chromium (Cr), manganese (Mn) compound</b>	1975	<b>E05-N03</b>	<b>Tantalum (Ta), tungsten (W), rhenium (Re), gold (Au), mercury (Hg) general</b>
<b>E05-L03B</b>	<b>. Copper (Cu) compound</b>	1975	<b>E05-N03A</b>	<b>. Tantalum (Ta), tungsten (W), rhenium (Re) compound</b>
<b>E05-L03C</b>	<b>. Zinc (Zn) carboxylate</b>	1975	<b>E05-N03B</b>	<b>. Gold (Au) compound</b>
<b>E05-L03D</b>	<b>. Other zinc (Zn) compound</b>	1975	<b>E05-N03C</b>	<b>. Mercury (Hg) compound</b>
			<b>E05-P</b>	<b>LANTHANOIDS (LA-LU)</b>
			<b>E05-P</b>	<b>General</b>

<b>E05-Q</b>	<b>PO, AT, RN, FR, RA, ACTINOIDS</b>		
<b>E05-Q</b>	<b>General</b>		
<b>E05-R</b>	<b>RADIOACTIVE ELEMENT OTHER THAN E05-Q, SPECIFIC ISOTOPE</b>		
<b>E05-R</b>	<b>General</b>		
<b>E05-S</b>	<b>INORGANIC LIGAND CONTAINING ONLY H, C, N, O, S OR HALOGEN</b>		
<b>E05-S</b>	<b>General</b>		
<b>E05-T</b>	<b>INORGANIC LIGAND (ION OR COMPLEXING AGENT) OTHER THAN E05-S</b>		
<b>E05-T</b>	<b>General</b>		
<b>E05-U</b>	<b>FULLERENE TYPE CAGE STRUCTURES</b> Prior to 199401 fullerene structures had been coded in section (E3). Further notes are included under the section E05 heading. Heterofullerenes receive code E05-U01 only; the heteroatom(s) present are <b>not</b> described by additional section E05 codes. e.g. Uranium in C82. Code E05-Q should <b>not</b> be added to describe the endohedral uranium atom; only code E05-U01 is required.		1994
<b>E05-U</b>	<b>General</b>		1994
<b>E05-U01</b>	<b>Other than carbon only</b> Where heteroatom(s) may be endohedral (inside cage), may form part of the cage resulting in a hetero cage structure or may be bound to the outside of the cage, e.g. C60H6, C70F34.		1994
<b>E05-U02</b>	<b>Carbon only</b> e.g. Buckminsterfullerene.		1994
<b>E05-U03</b>	<b>Carbon nanotubes (general)</b> A general code, applied when the nature of nanotube is not specified or if all 3 codes below are relevant.		2010
<b>E05-U03A</b>	. <b>Single walled</b> Single walled carbon nanotube.		2010
<b>E05-U03B</b>	. <b>Double walled</b> Double walled carbon nanotube.		2010
<b>E05-U03C</b>	. <b>Multiple walled (&gt; 2)</b> Multiple walled (> 2) carbon nanotube.		2010
<b>E05-U04</b>	<b>Heteroatom containing nanotubes</b>		2005
<b>E05-U05</b>	<b>Other Carbon nano 3-D structures (general)</b> A general code, applied when the nature of the three-dimensional structures is not specified or if 3 or more of the codes below are relevant.		2010
<b>E05-U05A</b>	. <b>Nanoparticles, nanopowder</b> Carbon nanoparticles or nanopowder.		2010
<b>E05-U05B</b>	. <b>Nanorods, nanowhiskers</b> Carbon nanorods, nanowhiskers or nanofibers.		2010
<b>E05-U05C</b>	. <b>Nanofilm</b> Carbon nanofilm including graphene.		2010
<b>E05-U05D</b>	. <b>Other nanoforms (e.g. nanobuds, nanohorns or nanodiamonds)</b> Other nanocarbon e.g. nanobuds or nanohorns.		2010
<b>E05-U05E</b>	. <b>Quantum dots</b> Nano-graphene quantum dots.		2010
<b>E05-U06</b>	<b>Other heteroatom-containing nano 3-D structures (general)</b> Applied when a heteroatom is present in any three-dimensional structure(s) other than those covered above.		2010
<b>E05-U07</b>	<b>Nanostructures of other organic compounds</b> Nanostructures of organic compounds other than compounds coded in E05-U above.		2010
<b>E05-V</b>	<b>METALLOCENES</b>		2005
<b>E05-V</b>	<b>General metallocene</b> Also apply all other E05 codes.		2005
<b>E05-V01</b>	<b>Unbridged metallocene with 2-4 pi-arene ligands</b>		2005

<b>E05-V02</b>	<b>Bridged carbocyclic metallocenes</b> 2005
<b>E05-V03</b>	<b>Carbocyclic metallocene with only 1 pi-arene ligand</b> 2005
<b>E05-V04</b>	<b>Metallocene with heteroatom-containing rings</b> 2005
<b>E05-V05</b>	<b>Condensed carbocyclic metallocenes</b> 2005
<b>E05-W</b>	<b>GENERAL ORGANOMETALLIC COMPLEX</b> 2010
<b>E05-W</b>	<b>Organometallic complex (general)</b> Applied to cover an organometallic complex when the metal is not specified; or when 5 or more of the following general metal codes can be applied. E05-A, E05-B, E05-D, E05-F, E05-H, E05-J, E05-L, E05-M, E05-N, E05-P, E05-Q, E05-R. 2010
<b>E05-Y</b>	<b>METAL-ORGANIC FRAMEWORK</b> Metal organic framework / MOFs. 2021

## E06 HETEROCYCLIC, FUSED RING

The specific compounds listed include all reduced derivatives and tautomers, unless specifically excluded.

### Note

1. For systems containing ring elements other than C, O, S and N see E05.
2. Specific ring systems present in a compound are each coded.
3. If there is an essential fused hetero-ring and (optionally) another variable fused hetero-ring, only the essential ring is coded and not the variable ring nor E06-H.

<b>E06-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>E06-A</b>	<b>Oxygen-containing fused heterocyclic - general</b> 2005
<b>E06-A01</b>	<b>1-Benzo-(furan or pyran)</b>
<b>E06-A02</b>	<b>Others with 2 rings - general</b>
<b>E06-A02A</b>	. <b>Phthalic anhydride (derivative)</b> 1986
<b>E06-A02B</b>	. <b>Phthalide (derivative)</b> 1986
<b>E06-A02C</b>	. <b>Other isobenzofuran; isochromene</b> 1986
<b>E06-A02D</b>	. <b>Other with one O</b> 1986
<b>E06-A02E</b>	. <b>Rings with 2 or more O</b> 1986
<b>E06-A03</b>	<b>With more than 2 rings - general</b> Applied if no specific information is available.
<b>E06-A03A</b>	. <b>Cyclodextrins</b> Includes all types of cyclodextrin. 2011
<b>E06-A03B</b>	. <b>Other</b> 2011
<b>E06-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>E06-B01</b>	<b>With 2 rings</b>
<b>E06-B02</b>	<b>With more than 2 rings</b>
<b>E06-C</b>	<b>SOLE HETEROS O AND S</b>
<b>E06-C</b>	<b>General</b>
<b>E06-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>E06-D01</b>	<b>Indole</b>
<b>E06-D02</b>	<b>Quinoline</b>

<b>E06-D03</b>	<b>Isoindole or Isoquinoline</b> Isoindole or Isoquinoline and its derivatives.
<b>E06-D04</b>	<b>Others with 2 rings and one N</b>
<b>E06-D05</b>	<b>With 2 rings (5+6 membered) and two N</b>
<b>E06-D06</b>	<b>With 2 rings (both 6 membered) and two N</b>
<b>E06-D07</b>	<b>Others with 2 rings and two N</b>
<b>E06-D08</b>	<b>With 2 rings and three N</b> Including benzotriazole.
<b>E06-D09</b>	<b>With 2 rings and four N</b>
<b>E06-D10</b>	<b>With 2 rings and &gt; four N</b>
<b>E06-D11</b>	<b>Acridine</b>
<b>E06-D12</b>	<b>Dibenzo[b,f]azepine</b>
<b>E06-D13</b>	<b>Others with 3 rings and one N</b>
<b>E06-D14</b>	<b>Phenazine</b>
<b>E06-D15</b>	<b>Carbolines; phenanthrolines</b> i.e. benzo-1,2:3,4-dipyridines.
<b>E06-D16</b>	<b>Others with 3 rings and two N</b>
<b>E06-D17</b>	<b>With 3 rings and &gt; two N</b>
<b>E06-D18</b>	<b>With more than 3 rings</b>
<b>E06-D</b>	<b>General</b>
	1994
<hr/>	
<b>E06-E</b>	<b>SOLE HETEROS O AND N</b>
<b>E06-E01</b>	<b>Benzoxazole, benzisoxazoles</b>
<b>E06-E02</b>	<b>Benzoxazines</b>
<b>E06-E03</b>	<b>Others with 2 rings</b>
<b>E06-E04</b>	<b>Phenoxazine</b>
<b>E06-E05</b>	<b>Others with more than 2 rings</b>
<hr/>	
<b>E06-F</b>	<b>SOLE HETEROS S AND N</b>
<b>E06-F01</b>	<b>Benzothiazole, benzisothiazoles</b>
<b>E06-F02</b>	<b>Benzothiazines</b>
<b>E06-F03</b>	<b>Others with 2 rings</b>
<b>E06-F04</b>	<b>Phenothiazine</b>
<b>E06-F05</b>	<b>Others with more than 2 rings</b>
<hr/>	
<b>E06-G</b>	<b>SOLE HETEROS O AND S AND N</b>
<b>E06-G</b>	<b>General</b>

<b>E06-H</b>	<b>FUSED RING - GENERAL</b>
<b>E06-H</b>	<b>General</b> This code is used for general disclosures when no specific hetero-ring system is present or when many are present.
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<b>E06-S</b>	<b>SPIROFUSED FUSED HETEROCYCLES</b> To be applied in conjunction with specific ring code(s) from E06-A to E06-G.

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## E07 HETEROCYCLIC, MONONUCLEAR

The specific compounds listed include all reduced derivatives and tautomers, unless specifically excluded.

### Note

1. For systems containing ring elements other than C, O, S and N see E05.
2. Specific ring systems in a compound are each coded, except that an E07 ring is not coded if an E06 system is present in the same compound.
3. If there is an essential mono hetero-ring and (optionally) another variable mono hetero-ring, only the essential ring is coded, and not the variable ring nor E07-H.

<b>E07-A</b>	<b>SOLE HETERO(S) OXYGEN</b>	
<b>E07-A</b>	<b>Oxygen-containing monoheterocyclic - general</b>	2005
<b>E07-A01</b>	<b>Furan excluding tetrahydrofuran</b>	
<b>E07-A02</b>	<b>Tetrahydro-(furan or pyran) - general</b>	
<b>E07-A02A</b>	. <b>Tetrahydrofuran and tetrahydropyran</b>	1986
<b>E07-A02B</b>	. <b>Tetrahydrofuran with =O &amp; -O-substituents</b>	1986
<b>E07-A02C</b>	. <b>Tetrahydrofuran with =O, no -O-substituents</b>	1986
<b>E07-A02D</b>	. <b>Tetrahydrofuran with no =O, with -O-substituents</b>	1986
<b>E07-A02E</b>	. <b>Tetrahydrofuran with no =O, no -O-substituents</b>	1986
<b>E07-A02F</b>	. <b>Tetrahydropyran with =O &amp; -O-substituents</b>	1986
<b>E07-A02G</b>	. <b>Tetrahydropyran with =O, no -O-substituents</b>	1986
<b>E07-A02H</b>	. <b>Tetrahydropyran with no =O, with -O-substituents</b>	1986
<b>E07-A02J</b>	. <b>Tetrahydropyran with no =O, no -O-substituents</b>	1986
<b>E07-A03</b>	<b>Other ring with one O - general</b>	

<b>E07-A03A</b>	. <b>Oxiran from (halo)hydrocarbon</b>	1975
<b>E07-A03B</b>	. <b>Other oxiran</b>	1975
<b>E07-A03C</b>	. <b>Others with one O</b> e.g. (dihydro)pyran.	1975
<b>E07-A04</b>	<b>Ring with more than one O</b>	
<b>E07-B</b>	<b>SOLE HETERO(S) SULPHUR</b>	
<b>E07-B01</b>	<b>Thiophene</b>	
<b>E07-B02</b>	<b>Others with one S</b>	
<b>E07-B03</b>	<b>Others with more than one S</b>	
<b>E07-C</b>	<b>SOLE HETEROS O AND S</b>	
<b>E07-C</b>	<b>General</b>	
<b>E07-D</b>	<b>SOLE HETERO(S) NITROGEN</b>	
<b>E07-D</b>	<b>General</b>	1994
<b>E07-D01</b>	<b>With one N, &lt; 5 membered</b>	
<b>E07-D02</b>	<b>Pyrrole, excluding pyrrolidine</b>	
<b>E07-D03</b>	<b>Pyrrolidine</b>	
<b>E07-D04</b>	<b>Pyridine, excluding piperidine - general</b>	
<b>E07-D04A</b>	. <b>(Hydro)pyridinium, N(V)</b> N(V) e.g. for N-oxide.	1986
<b>E07-D04B</b>	. <b>Pyridine production</b>	1986
<b>E07-D04C</b>	. <b>Pyridine use</b>	1986
<b>E07-D04D</b>	. <b>Di-, tetra-hydropyridine</b>	1986
<b>E07-D05</b>	<b>Piperidine</b>	
<b>E07-D06</b>	<b>With one N, &gt; 6 membered</b>	
<b>E07-D07</b>	<b>With &gt; one N, &lt; 5 membered</b>	
<b>E07-D08</b>	<b>Pyrazole</b>	
<b>E07-D09</b>	<b>Imidazole - general</b>	
<b>E07-D09A</b>	. <b>(Hydro)imidazolium, N(V)</b> N(V) e.g. for N-oxide.	1986
<b>E07-D09B</b>	. <b>Imidazole</b>	1986
<b>E07-D09C</b>	. <b>Dihydroimidazole</b>	1986
<b>E07-D09D</b>	. <b>Tetrahydroimidazole</b>	1986

<b>E07-D10</b>	<b>Pyr(id)azine, excluding piperazine</b>	
<b>E07-D11</b>	<b>Piperazine</b>	
<b>E07-D12</b>	<b>Pyrimidine</b>	
<b>E07-D13</b>	<b>Others with more than one N - general</b>	
<b>E07-D13A</b>	<b>. Production of 1,3,5-triazines</b>	1975
<b>E07-D13B</b>	<b>. Use of 1,3,5-triazines</b>	1975
<b>E07-D13C</b>	<b>. General, excluding 1,3,5-triazines</b>	1975
<hr/>		
<b>E07-E</b>	<b>SOLE HETEROS O AND N</b>	
<b>E07-E01</b>	<b>With one O and one N, &lt; 6 membered</b>	
<b>E07-E02</b>	<b>Oxazines, excluding morpholine</b>	
<b>E07-E03</b>	<b>Morpholine</b>	
<b>E07-E04</b>	<b>Others</b>	
<hr/>		
<b>E07-F</b>	<b>SOLE HETEROS S AND N</b>	
<b>E07-F01</b>	<b>With one S and one N, &lt; 6 membered</b>	
<b>E07-F02</b>	<b>Thiazines</b>	
<b>E07-F03</b>	<b>Others</b>	
<hr/>		
<b>E07-G</b>	<b>SOLE HETEROS O AND S AND N</b>	
<b>E07-G</b>	<b>General</b>	
<hr/>		
<b>E07-H</b>	<b>MONONUCLEAR HETEROCYCLIC - GENERAL</b>	
	These codes are used for general disclosures when no specific hetero-ring system is present or when many are present.	
<b>E07-H</b>	<b>General</b>	
<b>E07-H01</b>	<b>Production when ring linked directly to -C(=O)-, -C(=S)-, -C(=N)-, CN or heteroatom</b>	1975
<b>E07-H02</b>	<b>Others, production</b>	1975
<b>E07-H03</b>	<b>Use of E07-H01 type heterocyclic</b>	1975
<b>E07-H04</b>	<b>Others, use</b>	1975
<hr/>		
<b>E07-S</b>	<b>SPIROFUSED MONOCYCLIC HETEROCYCLES</b>	
	To be applied in conjunction with specific ring code(s) from E07-A to E07-G.	
		2021

## **E08 AROMATIC, POLYCARBOCYCLIC**

Includes only those compounds containing more than two carbocyclic rings fused together, at least one of which is 6-membered with 3 conjugated double bonds (or quinone derivatives thereof). Mono- and bi-cycloaromatics are coded in E10.

<b>E08-A</b>	<b>AT LEAST SIX RINGS FUSED</b>
<b>E08-A</b>	<b>General</b>
<hr/>	
<b>E08-B</b>	<b>FIVE RINGS FUSED</b>
<b>E08-B</b>	<b>General</b>
<hr/>	
<b>E08-C</b>	<b>FOUR RINGS FUSED</b>
<b>E08-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>
<b>E08-C02</b>	<b>Others</b>
<hr/>	
<b>E08-D</b>	<b>THREE RINGS FUSED</b>
<b>E08-D01</b>	<b>6:6:7 carbon atoms per ring</b>
<b>E08-D02</b>	<b>6:6:6 carbon atoms per ring</b>
<b>E08-D03</b>	<b>Others</b>
<hr/>	
<b>E08-H</b>	<b>AROMATIC POLYCARBOCYCLE GENERAL</b>
<b>E08-H</b>	<b>General</b>

## E09 ALICYCLIC, POLYCARBOCYCLIC

Includes only compounds containing more than two carbocyclic rings fused together, other than aromatics (see E08). Mono- and bi- cycloalkyl compounds are coded in E10.

<b>E09-A</b>	<b>AT LEAST SIX RINGS FUSED</b>
<b>E09-A</b>	<b>General</b>
<b>E09-B</b>	<b>FIVE RINGS FUSED</b>
<b>E09-B</b>	<b>General</b>
<b>E09-C</b>	<b>FOUR RINGS FUSED</b>
<b>E09-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>
<b>E09-C02</b>	<b>Others</b>
<b>E09-D</b>	<b>THREE RINGS FUSED</b>
<b>E09-D01</b>	<b>6:6:6 carbon atoms per ring</b>
<b>E09-D02</b>	<b>Others</b>
<b>E09-H</b>	<b>ALICYCLIC POLYCARBOCYCLE GENERAL</b>
<b>E09-H</b>	<b>General</b>

2002

## E10 AROMATIC AND CYCLO ALIPHATIC (MONO AND BICYCLIC ONLY), ALIPHATIC

In E10, compounds are coded according to the type of functional group present (if any). Only one code is applied to a specific compound according to the following order of priority:-

E10-A > E10-B → E10-J and 01 > 02 > 03 etc.

Thus E10-A01 is the highest, and E10-J02D is the lowest priority code.

### Note

- For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.).
- For all cyclic derivatives of the groups listed in section E10, see E01 to E07.
- For groups not listed in section E10, the highest priority segment of the group is used as its coding feature. For example, semi-carbazones are coded E10-A13B only, and **not** E10-A19 nor E10-A20.
- From 198601 the more general codes E10-B01, -B02, -B03, -B04, -C04 and -H02 were introduced and are used only where e.g. unspecified 'amines' are given, to save using many codes.

<b>E10-A</b>	<b>RARER CHEMICAL GROUPS</b>
<b>E10-A01</b>	<b>Sulfonium, halonium, carbonium, oxonium, aminimide, ylid, free radical</b> Includes carbanion.
<b>E10-A02</b>	<b>Halogen bonded to Hal, N or O</b>
<b>E10-A03</b>	<b>Nitrogen oxide, nitroso, nitrone, azoxy, nitrolic acid</b> Oxygen atom(s) may be replaced by sulfur atom(s).
<b>E10-A03A</b>	. <b>Nitron, nitrolic acid</b> <span style="float: right;">2002</span>
<b>E10-A03B</b>	. <b>Nitrogen oxide (R<sup>3</sup>N<sup>V</sup>=O), azoxy (R-N=N(=O)-R)</b> Excluding nitrones, nitrolic acids <span style="float: right;">2002</span>
<b>E10-A03C</b>	. <b>Nitroso (R-N<sup>III</sup>=O)</b> Excluding nitrones, nitrolic acids. <span style="float: right;">2002</span>
<b>E10-A04</b>	<b>Peroxide, polysulfide - general</b> Excluding thiosulfate, etc.
<b>E10-A04A</b>	. <b>Polysulfide</b> <span style="float: right;">1986</span>



<b>E10-A04B</b>	. <b>Peroxide</b>	1986	<b>E10-A06</b>	<b>Quinone (derivative)</b>	1970-1993
<b>E10-A04B1</b>	.. <b>Aromatic peroxides, gen</b> Peroxides of aromatic acids or alcohols, e.g. R-OO- ; RCO-O-O-); R-SO <sub>2</sub> -O-O-	2002	<b>E10-A06A</b>	. <b>Quinone</b>	1994
<b>E10-A04B1A</b>	... <b>Diacylperoxides</b> e.g. RCO-O-O-CO-R); R-SO <sub>2</sub> -O-O-SO <sub>2</sub> -R	2002	<b>E10-A06B</b>	. <b>Quinone derivative (except those with higher priority)</b>	1994
<b>E10-A04B1B</b>	... <b>Peresters</b> Includes percarbonic acid esters (aromatic) e.g. R-CO-O-O-R, R-SO <sub>2</sub> -O-O-R.	2002	<b>E10-A07</b>	<b>Sugar</b> Oxygen atom(s) may be replaced by sulfur atom(s). This code includes all derivatives except those of higher priority. Sugars containing free ketonic or aldehyde function are coded in open chain (not cyclic) form. For example, glucose is coded E10-A07 but methyl glucoside is coded E07-A02H.	
<b>E10-A04B1C</b>	... <b>Peracids</b> Includes percarbonic acid (aromatic) e.g. R-CO-O-O-H; R-SO <sub>2</sub> -O-O-H.	2002	<b>E10-A07A</b>	. <b>Unmodified sugar</b> Including ethers and esters thereof.	2005
<b>E10-A04B1D</b>	... <b>Peroxides, other</b> e.g. Ph-O-O-tBu.	2002	<b>E10-A07B</b>	. <b>Sugar alcohol</b> Including ethers and esters thereof.	2005
<b>E10-A04B1E</b>	... <b>Hydroperoxides, other</b> e.g. Ph-O-O-H.	2002	<b>E10-A07C</b>	. <b>Sugar acid</b> Including ethers and esters thereof.	2005
<b>E10-A04B2</b>	.. <b>(Cyclo)aliphatic peroxides, gen</b> Peroxides of non-Aromatic Acids or alcohols.	2002	<b>E10-A07D</b>	. <b>Sugar amine</b>	2005
<b>E10-A04B2A</b>	... <b>Diacylperoxides</b> e.g. RCO-O-O-CO-R); R-SO <sub>2</sub> -O-O-SO <sub>2</sub> -R.	2002	<b>E10-A07E</b>	. <b>Other sugar derivatives</b>	2005
<b>E10-A04B2B</b>	... <b>Peresters</b> Include percarbonic acid esters (aliphatic) e.g. R-CO-O-O-R, R-SO <sub>2</sub> -O-O-R.	2002	<b>E10-A08</b>	<b>Amide of sulfur acid - general</b>	
<b>E10-A04B2C</b>	... <b>Peracids</b> Includes percarbonic acid (aliphatic) e.g. R-CO-O-O-H; R-SO <sub>2</sub> -O-O-H.	2002	<b>E10-A08A</b>	. <b>Aromatic ring to N</b>	1986
<b>E10-A04B2D</b>	... <b>Peroxides, other</b> e.g. PhCH <sub>2</sub> -O-O-tBu;	2002	<b>E10-A08B</b>	. <b>Aromatic ring to S</b>	1986
<b>E10-A04B2E</b>	... <b>Hydroperoxides, other</b> e.g. tBu-O-O-H.	2002	<b>E10-A08C</b>	. <b>Other</b>	1986
<b>E10-A05</b>	<b>Nitrate, nitrite</b> Oxygen atom(s) may be replaced by sulfur atom(s).		<b>E10-A09A</b>	<b>Sulfuric(ous) acid</b> Oxygen atom(s) may be replaced by sulfur atom(s). This code includes all derivatives except those of higher priority.	
			<b>E10-A09A1</b>	. <b>Ether sulfates</b> Sulfuric acid esters of ethoxylated alcohols.	2005
			<b>E10-A09A2</b>	. <b>Aliphatic sulfates</b>	2005

<b>E10-A09A3</b>	. <b>Aromatic sulfates</b>	<b>2005</b>	<b>E10-A11A</b>	<b>Thiocarbonic acid</b> Codes E10-A11A to E10-A12C2 include all corresponding derivatives except those of higher priority. <b>1970-1993</b> Now coded as: E10-A11A1, E10-A11A2
<b>E10-A09A4</b>	. <b>Other derivatives</b>	<b>2005</b>	<b>E10-A11A1</b>	. <b>Thiocarbonic acid, production</b> <b>1994</b> Previous code(s): E10-A11A
<b>E10-A09B</b>	<b>Sulfonic acid - general</b> Codes E10-A09B to E10-A09B5 include all derivatives except those of higher priority and oxygen atom(s) may be replaced by sulfur atom(s).		<b>E10-A11A2</b>	. <b>Thiocarbonic acid, use</b> <b>1994</b> Previous code(s): E10-A11A
<b>E10-A09B1</b>	. <b>(Thio)sulfonic ester, halide, anhydride; thiosulfonic acid</b>	<b>1975</b>	<b>E10-A11B</b>	<b>Carbonic acid</b> <b>1970-1993</b> Now coded as: E10-A11B1, E10-A11B2
<b>E10-A09B2</b>	. <b>Sulfonic acid - with hetero group (atom) - general</b>	<b>1975</b>	<b>E10-A11B1</b>	. <b>Carbonic acid, production</b> <b>1994</b> Previous code(s): E10-A11B
<b>E10-A09B6</b>	.. <b>fused ring(s) present</b>	<b>1986</b>	<b>E10-A11B2</b>	. <b>Carbonic acid, use</b> <b>1994</b> Previous code(s): E10-A11B
<b>E10-A09B7</b>	.. <b>single ring(s) present</b>	<b>1986</b>	<b>E10-A12A</b>	<b>Dithiocarbamic acid</b> <b>1970-1993</b> Now coded as: E10-A12A1, E10-A12A2
<b>E10-A09B8</b>	.. <b>no ring(s) present</b> N.B. These last three codes are subdivisions of E10-A09B2.	<b>1986</b>	<b>E10-A12A1</b>	. <b>Dithiocarbamic acid, production</b> <b>1994</b> Previous code(s): E10-A12A
<b>E10-A09B3</b>	. <b>Sulfonic acid - with no hetero group (atom), production</b>	<b>1975</b>	<b>E10-A12A2</b>	. <b>Dithiocarbamic acid, use</b> <b>1994</b> Previous code(s): E10-A12A
<b>E10-A09B4</b>	. <b>Aromatic sulfonic acid - with no hetero group (atom), use</b>	<b>1975</b>	<b>E10-A12B</b>	<b>Monothiocarbamic acid</b> <b>1970-1993</b> Now coded as: E10-A12B1, E10-A12B2
<b>E10-A09B5</b>	. <b>(Cyclo)aliphatic sulfonic acid - with no hetero group (atom), use</b>	<b>1975</b>	<b>E10-A12B1</b>	. <b>Monothiocarbamic acid, production</b> <b>1994</b> Previous code(s): E10-A12B
<b>E10-A09C</b>	<b>Other S acid</b> Oxygen atom(s) may be replaced by sulfur atom(s). This code includes all derivatives except those of higher priority.		<b>E10-A12B2</b>	. <b>Monothiocarbamic acid, use</b> <b>1994</b> Previous code(s): E10-A12B
<b>E10-A10</b>	<b>Sulfone, sulfoxide - general</b> Oxygen atom(s) may be replaced by sulfur atom(s).		<b>E10-A12C</b>	<b>Carbamic acid</b> <b>1970-1993</b> Now coded as: E10-A12C1, E10-A12C2
<b>E10-A10A</b>	. <b>Sulfoxide</b>	<b>1986</b>	<b>E10-A12C1</b>	. <b>Carbamic acid, production</b> <b>1994</b> Previous code(s): E10-A12C
<b>E10-A10B</b>	. <b>Diaryl sulfone</b> Both aryl groups attached directly to one -SO <sub>2</sub> -.	<b>1986</b>	<b>E10-A12C2</b>	. <b>Carbamic acid, use</b> <b>1994</b> Previous code(s): E10-A12C
<b>E10-A10C</b>	. <b>Monoaryl sulfone</b> Aryl group attached directly to SO <sub>2</sub> .	<b>1986</b>		
<b>E10-A10D</b>	. <b>Other</b>	<b>1986</b>		

<b>E10-A13A</b>	<b>(Iso)thiourea</b> 1970-1993 Now coded as: E10-A13A1, E10-A13A2	<b>E10-A15F</b>	<b>. Other cyanide, use</b> 1975
<b>E10-A13A1</b>	<b>. (Iso)thiourea, production</b> 1994 Previous code(s): E10-A13A	<b>E10-A16</b>	<b>Azide, azo, diazo(nium)</b> 1970-1993 Now coded as: E10-A16A, E10-A16B
<b>E10-A13A2</b>	<b>. (Iso)thiourea, use</b> 1994 Previous code(s): E10-A13A	<b>E10-A16A</b>	<b>. Azide, azo, diazo(nium), production</b> 1994 Previous code(s): E10-A16
<b>E10-A13B</b>	<b>(Iso)urea</b> 1970-1993 Now coded as: E10-A13B1, E10-A13B2	<b>E10-A16B</b>	<b>. Azide, azo, diazo(nium), use</b> 1994 Previous code(s): E10-A16
<b>E10-A13B1</b>	<b>. (Iso)urea, production</b> 1994 Previous code(s): E10-A13B	<b>E10-A17</b>	<b>Biguanide, guanidine, amidine</b> 1970-1993 Now coded as: E10-A17A, E10-A17B
<b>E10-A13B2</b>	<b>. (Iso)urea, use</b> 1994 Previous code(s): E10-A13B	<b>E10-A17A</b>	<b>. Biguanide, guanidine, amidine, production</b> 1994 Previous code(s): E10-A17
<b>E10-A14</b>	<b>(Iso)cyanate, nitrile oxide</b> Oxygen atom may be replaced by sulfur atom. 1970-1993 Now coded as: E10-A14A, E10-A14B	<b>E10-A17B</b>	<b>. Biguanide, guanidine, amidine, use</b> 1994 Previous code(s): E10-A17
<b>E10-A14A</b>	<b>. (Iso)cyanate, nitrile oxide, production</b> Oxygen atom may be replaced by sulfur atom. 1994 Previous code(s): E10-A14	<b>E10-A18</b>	<b>Hydroxylamine</b> 1970-1993 Now coded as: E10-A18A, E10-A18B
<b>E10-A14B</b>	<b>. (Iso)cyanate, nitrile oxide, use</b> Oxygen atom may be replaced by sulfur atom. 1994 Previous code(s): E10-A14	<b>E10-A18A</b>	<b>. Hydroxylamine, production</b> Include organic hydroxamic acid production. 1994 Previous code(s): E10-A18
<b>E10-A15</b>	<b>(Iso)cyanide - general</b>	<b>E10-A18B</b>	<b>. Hydroxylamine, use</b> Include organic hydroxamic acid use. 1994 Previous code(s): E10-A18
<b>E10-A15A</b>	<b>. Poly(iso)cyanide and monoisocyanide</b> 1975	<b>E10-A19</b>	<b>Hydrazine</b> 1970-1993 Now coded as: E10-A19A, E10-A19B
<b>E10-A15B</b>	<b>. Cyanide with aliphatic unsaturation, production</b> 1975	<b>E10-A19A</b>	<b>. Hydrazine, production</b> Covers hydrazines and hydrazones production. Hydrazine itself is inorganic, so one end at least must be attached to an organic residue. Inorganic hydrazine codes E31-H04. 1994 Previous code(s): E10-A19
<b>E10-A15C</b>	<b>. Cyanide with aliphatic unsaturation, use</b> 1975		
<b>E10-A15D</b>	<b>. Other cyanide, production with CN formation</b> 1975		
<b>E10-A15E</b>	<b>. Other cyanide, production without CN formation</b> CN group is in a starting material and remains bonded to the same atom when in the product. 1975		

<b>E10-A19B</b>	<ul style="list-style-type: none"> <li>• <b>Hydrazine, use</b> Covers hydrazines and hydrazones use. Hydrazine itself is inorganic, so one end at least must be attached to an organic residue. Inorganic hydrazine codes E31-H04.</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A19</i></p>	<b>E10-A23A</b>	<ul style="list-style-type: none"> <li>• <b>Acetal, ketal, production</b> Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A23</i></p>
<b>E10-A20</b>	<p><b>Imine</b></p> <p style="text-align: right;">1970-1993</p> <p><i>Now coded as: E10-A20A, E10-A20B</i></p>	<b>E10-A23B</b>	<ul style="list-style-type: none"> <li>• <b>Acetal, ketal, use</b> Including those with C atoms in a ring. Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A23</i></p>
<b>E10-A20A</b>	<ul style="list-style-type: none"> <li>• <b>Imine, production</b></li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A20</i></p>	<b>E10-A24</b>	<p><b>Imide</b> Oxygen atom(s) may be replaced by sulfur atom(s).</p> <p style="text-align: right;">1970-1993</p> <p><i>Now coded as: E10-A24A, E10-A24B</i></p>
<b>E10-A20B</b>	<ul style="list-style-type: none"> <li>• <b>Imine, use</b></li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A20</i></p>	<b>E10-A24A</b>	<ul style="list-style-type: none"> <li>• <b>Imide, production</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A24</i></p>
<b>E10-A21</b>	<p><b>Quaternary ammonium (bis or poly)</b> Where a patent claims amines and their quaternary ammonium salts, only the code corresponding to the parent amine is applied. Thus to obtain all relevant quaternary compounds, two searches must be made.</p>	<b>E10-A24B</b>	<ul style="list-style-type: none"> <li>• <b>Imide, use</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A24</i></p>
<b>E10-A22</b>	<p><b>Quaternary ammonium (mono) - general</b></p>	<b>E10-A25</b>	<p><b>Acid anhydride, halide (carboxylic only)</b> Oxygen atom(s) may be replaced by sulfur atom(s).</p> <p style="text-align: right;">1970-1993</p> <p><i>Now coded as: E10-A25A1, E10-A25A2, E10-A25B1, E10-A25B2</i></p>
<b>E10-A22A</b>	<ul style="list-style-type: none"> <li>• <b>Aromatic ring present</b></li> </ul> <p style="text-align: right;">1986</p>	<b>E10-A25A1</b>	<ul style="list-style-type: none"> <li>• <b>Acid anhydride, production</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A25</i></p>
<b>E10-A22B</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - general</b></li> </ul> <p style="text-align: right;">1986</p>	<b>E10-A25A2</b>	<ul style="list-style-type: none"> <li>• <b>Acid anhydride, use</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A25</i></p>
<b>E10-A22C</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - with amine</b></li> </ul> <p style="text-align: right;">1986</p>	<b>E10-A25B1</b>	<ul style="list-style-type: none"> <li>• <b>Acid halide, production</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A25</i></p>
<b>E10-A22D</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - with acid (derivative)</b></li> </ul> <p style="text-align: right;">1986</p>	<b>E10-A25B2</b>	<ul style="list-style-type: none"> <li>• <b>Acid halide, use</b> Oxygen atom(s) may be replaced by sulfur atom(s).</li> </ul> <p style="text-align: right;">1994</p> <p><i>Previous code(s): E10-A25</i></p>
<b>E10-A22E</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - with OH, ether</b></li> </ul> <p style="text-align: right;">1986</p>		
<b>E10-A22F</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - with other hetero group (atom)</b></li> </ul> <p style="text-align: right;">1986</p>		
<b>E10-A22G</b>	<ul style="list-style-type: none"> <li>• <b>No aromatic ring - with no hetero atom(s)</b></li> </ul> <p style="text-align: right;">1986</p>		
<b>E10-A23</b>	<p><b>Acetal, ketal</b> Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulfur atom(s).</p> <p style="text-align: right;">1970-1993</p> <p><i>Now coded as: E10-A23A, E10-A23B</i></p>		

<b>E10-B</b>	<b>AMINES</b>	
<b>E10-B01</b>	<b>Polyamine - general</b>	1986
<b>E10-B01A</b>	. <b>Polyamine, at least 1 amine 'aromatic' - general</b> i.e. amino N on aromatic ring C.	
<b>E10-B01A1</b>	.. <b>with acid (derivative)</b>	1986
<b>E10-B01A2</b>	.. <b>With OH, ether</b>	1986
<b>E10-B01A3</b>	.. <b>other, production</b>	1986
<b>E10-B01A4</b>	.. <b>other, use</b>	1986
<b>E10-B01B</b>	. <b>Polyamine with no amine aromatic- general</b>	
<b>E10-B01C</b>	.. <b>Non-aromatic Polyamine, with carboxylic acid, ester or amide group</b>	1975
<b>E10-B01C1</b>	... <b>With carboxylic acid group</b>	2002
<b>E10-B01C2</b>	... <b>With carboxylic acid ester group</b>	2002
<b>E10-B01C3</b>	... <b>With carboxylic acid amide group</b>	2002
<b>E10-B01D</b>	.. <b>with hydroxy, mercapto or (thio)ether group</b>	1975
<b>E10-B01E</b>	.. <b>others</b>	1975
<b>E10-B02</b>	<b>Amino-acid, -ester or -amide - general</b>	1986
<b>E10-B02A</b>	. <b>Aromatic amino-acid, -ester or -amide group</b> Oxygen atom(s) may be replaced by sulfur atom(s).	
<b>E10-B02A1</b>	.. <b>With carboxylic acid group</b>	2002
<b>E10-B02A2</b>	.. <b>With carboxylic acid ester group</b>	2002
<b>E10-B02A3</b>	.. <b>With carboxylic acid amide group</b>	2002
<b>E10-B02B</b>	. <b>Amino-acid, -ester or -amide (amine not aromatic) - general</b> Oxygen atom(s) may be replaced by sulfur atom(s).	
<b>E10-B02C</b>	. <b>mixtures containing at least 3 naturally occurring amino acids</b>	1975
<b>E10-B02D</b>	. <b>Alpha-amino acid (or derivative of carboxyl group) general. Primary amine, only one side-chain which...</b>	1975
<b>E10-B02D1</b>	.. <b>contains S</b> e.g. Cys, Met.	1986
<b>E10-B02D2</b>	.. <b>contains benzene and phenolic OH</b> e.g. Tyr.	1986
<b>E10-B02D3</b>	.. <b>is benzyl unsubstituted</b> i.e. Phe.	1986
<b>E10-B02D4</b>	.. <b>contains alcohol (derivative)</b> e.g. Ser, Thr.	1986
<b>E10-B02D5</b>	.. <b>contains acid (derivative)</b> e.g. Asp, Glu.	1986
<b>E10-B02D6</b>	.. <b>is alkyl unsubstituted</b> e.g. Ala, Gly, Ile, Leu, Val.	1986
<b>E10-B02D7</b>	.. <b>Primary amine other</b>	1986
<b>E10-B02D8</b>	.. <b>Secondary, tertiary amine</b>	1986
<b>E10-B02E</b>	. <b>others</b> Oxygen atom(s) may be replaced by sulfur atom(s).	1975
<b>E10-B03</b>	<b>Amino-phenol, - alcohol or ether - general</b> Oxygen atom(s) may be replaced by sulfur atom(s).	1986
<b>E10-B03A</b>	. <b>Amino-phenol, - alcohol or ether - general (amine aromatic)</b> N directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulfur atom(s).	
<b>E10-B03A1</b>	.. <b>Aromatic amino-phenol</b>	2002
<b>E10-B03A2</b>	.. <b>Aromatic amino-alcohol</b> e.g. Ph-NH-C <sub>2</sub> H <sub>4</sub> -OH.	2002
<b>E10-B03A3</b>	.. <b>Aromatic amino-ether</b> e.g. Ph-NH-C <sub>2</sub> H <sub>4</sub> -OR.	2002

<b>E10-B03B</b>	. <b>Amino-phenol, - alcohol or ether - general (amine not aromatic)</b> N <b>not</b> directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulfur atom(s).		<b>E10-B04E</b>	. <b>Use of other aliphatic amine</b> Including cycloaliphatic, substituted aliphatic.	1975
<b>E10-B03B1</b>	.. <b>Amino-phenol</b> e.g. NH <sub>2</sub> C <sub>2</sub> H <sub>4</sub> -O-p C <sub>6</sub> H <sub>4</sub> -OH.	2002	<b>E10-B04E1</b>	.. <b>Primary amine</b>	2002
<b>E10-B03B2</b>	.. <b>Amino-alcohol</b> Includes mono, di and tri alkanolamines e.g. NH <sub>2</sub> -C <sub>2</sub> H <sub>4</sub> -OH.	2002	<b>E10-B04E2</b>	.. <b>Secondary or tertiary amine</b>	2002
<b>E10-B03B3</b>	.. <b>Aminopolyether</b> e.g. NH <sub>2</sub> -(C <sub>2</sub> H <sub>4</sub> -O) <sub>n</sub> R.	2002	<hr/>		
<b>E10-B03B4</b>	.. <b>Amino-ether</b> e.g. NH <sub>2</sub> -C <sub>2</sub> H <sub>4</sub> -OR	2002	<b>E10-C</b>	<b>CARBOXYLIC ACIDS (CA)</b>	
<b>E10-B04</b>	<b>Amine mono - general</b>	1986	<b>E10-C01</b>	<b>Thio-CA</b>	
<b>E10-B04A</b>	. <b>Other aromatic amine</b> 1970-1993 <i>Now coded as: E10-B04A1, E10-B04A2</i>		<b>E10-C02</b>	<b>Poly-CA - general</b>	
<b>E10-B04A1</b>	.. <b>Other aromatic amine, production</b> <i>Previous code(s): E10-B04A</i>	1994	<b>E10-C02A</b>	. <b>Citric or isocitric acid</b>	1975
<b>E10-B04A2</b>	.. <b>Other aromatic amine, use</b> <i>Previous code(s): E10-B04A</i>	1994	<b>E10-C02B</b>	. <b>Others with &gt; 2 carboxy groups</b>	1975
<b>E10-B04B</b>	. <b>Other non-aromatic amine - general</b>		<b>E10-C02C</b>	. <b>Di-CA with carbocyclic ring(s)</b> 1975-1993 <i>Now coded as: E10-C02C1, E10-C02C2</i>	
<b>E10-B04C</b>	. <b>Production of other non-aromatic amine</b>	1975	<b>E10-C02C1</b>	.. <b>Di-CA with carbocyclic ring(s), production</b> Applied if both subcodes below could be applied. <i>Previous code(s): E10-C02C</i>	1994
<b>E10-B04C1</b>	.. <b>Primary amine</b>	2002	<b>E10-C02C1A</b>	... <b>Di-CA with aromatic ring, production</b>	2010
<b>E10-B04C2</b>	.. <b>Secondary or tertiary amine</b>	2002	<b>E10-C02C1B</b>	... <b>Di-CA with cycloaliphatic ring, production</b>	2010
<b>E10-B04D</b>	. <b>Use of unsubstituted aliphatic amine</b> Excluding cycloaliphatic.	1975	<b>E10-C02C2</b>	.. <b>Di-CA with carbocyclic ring(s), use</b> Applied if both subcodes below could be applied. <i>Previous code(s): E10-C02C</i>	1994
<b>E10-B04D1</b>	.. <b>Primary amine</b>	2002	<b>E10-C02C2A</b>	... <b>Di-CA with aromatic ring, use</b>	2010
<b>E10-B04D2</b>	.. <b>Secondary or tertiary amine</b>	2002	<b>E10-C02C2B</b>	... <b>Di-CA with cycloaliphatic ring, use</b>	2010
			<b>E10-C02D</b>	. <b>Oxalic acid; unsubstituted alkylene di-CA</b> 1975-1993 <i>Now coded as: E10-C02D1, E10-C02D2</i>	
			<b>E10-C02D1</b>	.. <b>Oxalic acid</b> <i>Previous code(s): E10-C02D</i>	1994
			<b>E10-C02D2</b>	.. <b>Unsubstituted alkylene di-CA</b> <i>Previous code(s): E10-C02D</i>	1994

<b>E10-C02E</b>	. <b>Other di-CA, production</b>	1975	<b>E10-C04G2</b>	.. <b>(Meth)acrylic acid, use</b>	2002
<b>E10-C02F</b>	. <b>Other di-CA, use</b>	1975	<b>E10-C04G2A</b>	... <b>Acrylic acid, use</b> Use of AA specifically	2002
<b>E10-C03</b>	<b>CA with phenol or phenolic ester or ether group(s)</b> Oxygen atom(s) may be replaced by sulfur atom(s).		<b>E10-C04G2B</b>	... <b>Methacrylic acid, use</b> Use of MA specifically	2002
<b>E10-C04</b>	<b>Other carboxylic acid - general</b>	1986	<b>E10-C04H</b>	. <b>Other unsaturated unsubstituted acid</b>	1975
<b>E10-C04A</b>	. <b>CA with cycloaliphatic ring system</b>		<b>E10-C04J</b>	. <b>Formic, acetic acid</b>	1975-1993
<b>E10-C04B</b>	. <b>Hydroxy, aldehyde or ketonic CA (or ethers thereof) with an aromatic ring</b> Oxygen atom(s) may be replaced by sulfur atom(s).			<i>Now coded as: E10-C04J1, E10-C04J2</i>	
<b>E10-C04C</b>	. <b>Other CA with aromatic ring</b>		<b>E10-C04J1</b>	.. <b>Formic acid - general</b>	1994
<b>E10-C04D</b>	. <b>Acyclic hydroxy, aldehyde or ketonic CA and acyclic ether thereof - general</b> Oxygen atom(s) may be replaced by sulfur atom(s).			<i>Previous code(s): E10-C04J</i>	
<b>E10-C04D1</b>	.. <b>aldehyde, ketone present</b>	1986	<b>E10-C04J1P</b>	... <b>Formic acid, production</b>	2002
<b>E10-C04D2</b>	.. <b>S present</b>	1986	<b>E10-C04J1U</b>	... <b>Formic acid, use</b>	2002
<b>E10-C04D3</b>	.. <b>ether present</b>	1986	<b>E10-C04J2</b>	.. <b>Acetic acid - general</b>	1994
<b>E10-C04D4</b>	.. <b>alpha OH acid</b>	1986		<i>Previous code(s): E10-C04J</i>	
<b>E10-C04D5</b>	.. <b>other OH acid</b>	1986	<b>E10-C04J2P</b>	... <b>Acetic acid, production</b>	2002
<b>E10-C04D6</b>	.. <b>Acid contains amide substituent</b> Acyclic carboxylic acid with amide functional group.	2019	<b>E10-C04J2U</b>	... <b>Acetic acid, use</b>	2002
<b>E10-C04E</b>	. <b>Other acyclic mono-CA - general</b>		<b>E10-C04K</b>	. <b>Other acid, production</b>	1975
<b>E10-C04F</b>	. <b>substituted acyclic acid</b>	1975	<b>E10-C04L</b>	. <b>Other acid, use - general</b>	1975
<b>E10-C04G</b>	. <b>(Meth)acrylic acid</b>	1975	<b>E10-C04L1</b>	.. <b>2-9C</b> Excluding C of carboxy.	1986
<b>E10-C04G1</b>	.. <b>(Meth)acrylic acid, production</b>	2002	<b>E10-C04L2</b>	.. <b>10+C</b> Excluding C of carboxy.	1986
<b>E10-C04G1A</b>	... <b>Acrylic acid, production</b> Specifically AA production	2002	<b>E10-D</b>	<b>ALDEHYDES AND CARBOXYLIC AMIDES</b>	
<b>E10-C04G1B</b>	... <b>Methacrylic acid, production</b> Specifically MA production	2002	<b>E10-D01</b>	<b>Aldehyde - general</b> Oxygen atom(s) may be replaced by sulfur atom(s).	
			<b>E10-D01A</b>	. <b>(Meth)acrolein, production</b>	1975
			<b>E10-D01B</b>	. <b>Other aldehyde, production by olefin oxidation</b>	1975
			<b>E10-D01C</b>	. <b>Other aldehyde, production by other methods</b> Oxygen atom(s) may be replaced by sulfur atom(s).	1975

<b>E10-D01D</b>	. <b>Use</b> Oxygen atom(s) may be replaced by sulfur atom(s). 1975	<b>E10-E02P</b>	<b>Phenol, naphthol, general, production</b> 1994 <i>Previous code(s): E10-E02</i>
<b>E10-D02</b>	<b>Carboxylic amide, thio</b>	<b>E10-E02A</b>	. <b>Polyphenol, polynaphthol, production</b> 1975
<b>E10-D03</b>	<b>Carboxylic amide - general</b>	<b>E10-E02B</b>	. <b>Phenol or naphthol (optionally substituted only by hydrocarbyl) production</b> 1975-1993 <i>Now coded as: E10-E02B1, E10-E02B2</i>
<b>E10-D03A</b>	. <b>Polyamide</b> 1975	<b>E10-E02B1</b>	.. <b>Phenol (optionally substituted only by hydrocarbyl) production</b> 1994 <i>Previous code(s): E10-E02B</i>
<b>E10-D03A1</b>	.. <b>Polyamide containing aromatic ring(s)</b> 2011	<b>E10-E02B2</b>	.. <b>Naphthol (optionally substituted only by hydrocarbyl) production</b> 1994 <i>Previous code(s): E10-E02B</i>
<b>E10-D03A2</b>	.. <b>Polyamide not containing aromatic ring(s)</b> 2011	<b>E10-E02C</b>	. <b>Other phenol, production</b> 1975-1993 <i>Now coded as: E10-E02C1, E10-E02C2</i>
<b>E10-D03B</b>	. <b>Containing phenol group(s)</b> 1975	<b>E10-E02C1</b>	.. <b>Other phenol, production</b> 1994 <i>Previous code(s): E10-E02C</i>
<b>E10-D03C</b>	. <b>Amide of unsubstituted fatty acid, optionally unsaturated, optionally N-substituted</b> 1975	<b>E10-E02C2</b>	.. <b>Other naphthol, production</b> 1994 <i>Previous code(s): E10-E02C</i>
<b>E10-D03C1</b>	.. <b>Formamides, opt. N-substituted</b> 2002	<b>E10-E02U</b>	<b>Phenol, naphthol, general - use</b> 1994 <i>Previous code(s): E10-E02</i>
<b>E10-D03C2</b>	.. <b>Amide of &gt;1C unsubstituted fatty acid, optionally unsaturated, N-substituted by polyether</b> Including polyetheralcohols, esters; e.g. R-CO1-N (-R'-O)n-R', R' = H, C, -CO1-R, etc. 2002	<b>E10-E02D</b>	. <b>Polyphenol, polynaphthol, use - general</b> 1975
<b>E10-D03C3</b>	.. <b>Amide of &gt;1C unsubstituted fatty acid, optionally unsaturated, optionally N-substituted</b> Excluding N-polyether derivatives (coded E10-D03C2) 2002	<b>E10-E02D1</b>	.. <b>nitro, S, X present</b> 1986
<b>E10-D03D</b>	. <b>Others</b> 1975	<b>E10-E02D2</b>	.. <b>O present, other than phenol</b> 1986
<b>E10-E</b>	<b>HYDROXY COMPOUNDS</b> Within section E10-E02 the term <b>naphthol</b> includes all aromatic bicyclic compounds with phenolic OH. e.g. 1H-Inden-4-ol or 5, 6, 7, 8-tetrahydro-1-naphthol.	<b>E10-E02D3</b>	.. <b>with 3 or more phenolic OH</b> 1986
<b>E10-E01</b>	<b>Thiophenols, thionaphthols</b>	<b>E10-E02D4</b>	.. <b>with 2 phenolic OH and 2 or more ring systems</b> 1986
<b>E10-E01P</b>	. <b>Thiophenols, thionaphthols production</b> 2002	<b>E10-E02D5</b>	.. <b>with 2 phenolic OH and 1 ring system</b> 1986
<b>E10-E01U</b>	. <b>Thiophenols, thionaphthols - use</b> 2002	<b>E10-E02E</b>	. <b>Phenol or naphthol (optionally substituted only by hydrocarbyl), use</b> 1975-1993 <i>Now coded as: E10-E02E1, E10-E02E2</i>
<b>E10-E02</b>	<b>Phenol - general</b> 1970-1993 <i>Now coded as: E10-E02P, E10-E02U</i>		



<b>E10-E02E1</b>	<b>.. Phenol (optionally substituted only by hydrocarbyl) use</b> 1994 <i>Previous code(s): E10-E02E</i>	<b>E10-E03P</b>	<b>. Thiol production, general</b> Covers very generic information, or when three or more thiol production codes are applicable. 2014
<b>E10-E02E2</b>	<b>.. Naphthol (optionally substituted only by hydrocarbyl) use</b> 1994 <i>Previous code(s): E10-E02E</i>	<b>E10-E03U</b>	<b>. Thiol use, general</b> Covers very generic information, or when three or more thiol use codes are applicable. 2014
<b>E10-E02F</b>	<b>. Other phenol, use</b> 1975-1993 <i>Now coded as: E10-E02F1, E10-E02F2</i>	<b>E10-E04</b>	<b>Alcohol - general</b>
<b>E10-E02F1</b>	<b>.. Other phenol, use</b> 1994 <i>Previous code(s): E10-E02F</i>	<b>E10-E04A</b>	<b>. Polyhydric containing carboxylic ester group(s) production</b> 1975
<b>E10-E02F2</b>	<b>.. Other naphthol, use</b> 1994 <i>Previous code(s): E10-E02F</i>	<b>E10-E04B</b>	<b>. Unsubstituted polyhydroxy-alkane, production</b> 1975
<b>E10-E03</b>	<b>Thioalcohols - general</b>	<b>E10-E04C</b>	<b>. Other polyhydric alcohol, production</b> 1975
<b>E10-E03A</b>	<b>. Polythiol contg. carboxylic ester gp, production</b> 2002	<b>E10-E04C1</b>	<b>.. Polyetherpolyol, production</b> Incl polyglycol-, polyglyceryl-, ethers. 2002
<b>E10-E03B</b>	<b>. Unsubstituted alkane polythiol, production</b> 2002	<b>E10-E04C2</b>	<b>.. Other polyhydric alcohol, production</b> 2002
<b>E10-E03C</b>	<b>. Other polymercaptoalkanes, production</b> 2002	<b>E10-E04D</b>	<b>. Monohydric containing carboxylic ester group(s), production</b> 1975
<b>E10-E03D</b>	<b>. Monothiol containing carboxylic ester gp, production</b> 2002	<b>E10-E04D1</b>	<b>.. Monohydric contg polyetherpolyol carboxylic ester group(s), production</b> [RCO(-O-R') <sub>n</sub> -O] <sub>m</sub> -R-OH (m>0, n>1). 2002
<b>E10-E03E</b>	<b>. Unsubstituted alkanethiol, production</b> 2002	<b>E10-E04D2</b>	<b>.. Other monohydric alcohol containing carboxylic ester(s), production</b> 2002
<b>E10-E03F</b>	<b>. Other alkanethiol production</b> 2002	<b>E10-E04E</b>	<b>. Unsubstituted alkanol production - general</b> 1975
<b>E10-E03G</b>	<b>. Polythiol contg. carboxylic ester gp, use</b> 2002	<b>E10-E04E1</b>	<b>.. methanol</b> 1986
<b>E10-E03H</b>	<b>. Unsubstituted alkane polythiol, use</b> 2002	<b>E10-E04E2</b>	<b>.. ethanol</b> 1986
<b>E10-E03J</b>	<b>. Other polymercaptoalkanes, use</b> 2002	<b>E10-E04E3</b>	<b>.. propanols, butanols</b> 1986
<b>E10-E03K</b>	<b>. Monothiol containing carboxylic ester gp, use</b> 2002	<b>E10-E04E4</b>	<b>.. with 5-10C</b> 1986
<b>E10-E03L</b>	<b>. Unsubstituted alkanethiol, use</b> 2002	<b>E10-E04E5</b>	<b>.. with 11 or more C</b> 1986
<b>E10-E03M</b>	<b>. Other alkanethiol, use</b> 2002		

<b>E10-E04F</b>	. Other monohydric alcohol, production	1975	<b>E10-E04M4</b>	.. ether present, mono	1986
<b>E10-E04G</b>	. Polyhydric, containing carboxylic ester group(s) use	1975	<b>E10-F</b>	<b>KETONES</b>	
<b>E10-E04H</b>	. Unsubstituted polyhydroxy-alkane, use	1975	<b>E10-F01</b>	Thioketone	
<b>E10-E04H1</b>	.. Diol	2005	<b>E10-F02</b>	Ketone - general	
<b>E10-E04H2</b>	.. Triol	2005	<b>E10-F02A</b>	. With carbocyclic ring(s) - general	1975
<b>E10-E04H3</b>	.. 4 or more hydroxy Not including sugar alcohol (see E10-A07B).	2005	<b>E10-F02A1</b>	.. ketone on ring	1986
<b>E10-E04J</b>	. Other polyhydric alcohol, use	1975	<b>E10-F02A2</b>	.. ketone on chain of aromatic compound	1986
<b>E10-E04J1</b>	.. Ring present	2005	<b>E10-F02A3</b>	.. ketone on chain of alicyclic compound	1986
<b>E10-E04J2</b>	.. Ketone, nitro, halogen or unsaturation present	2005	<b>E10-F02B</b>	. Other ketone, production	1975
<b>E10-E04J3</b>	.. Ether present, poly	2005	<b>E10-F02C</b>	. Other ketone, use	1975
<b>E10-E04J4</b>	.. Ether present, mono	2005	<b>E10-G</b>	<b>CARBOXYLIC ESTERS AND NITRO COMPOUNDS</b>	1994
<b>E10-E04K</b>	. Monohydric, containing carboxylic ester group(s) use	1975	<b>E10-G01</b>	Thiocarboxylic ester	
<b>E10-E04L</b>	. Unsubstituted alkanol, use - general	1975	<b>E10-G02</b>	Carboxylic ester - general	
<b>E10-E04L1</b>	.. methanol	1986	<b>E10-G02P</b>	. Production of esters - general	2005
<b>E10-E04L2</b>	.. ethanol	1986	<b>E10-G02A</b>	. With carbocyclic ring, production	1975-1993 Now coded as: E10-G02A1, E10-G02A2
<b>E10-E04L3</b>	.. propanols, butanols	1986	<b>E10-G02A1</b>	.. With aromatic ring, production	1994 Previous code(s): E10-G02A
<b>E10-E04L4</b>	.. with 5-10C	1986	<b>E10-G02A2</b>	.. With alicyclic ring, production	1994 Previous code(s): E10-G02A
<b>E10-E04L5</b>	.. with 11 or more C	1986	<b>E10-G02B</b>	. Other polyester, production	1975-1993 Now coded as: E10-G02B1, E10-G02B2
<b>E10-E04M</b>	. Other monohydric alcohol, use -general	1975	<b>E10-G02B1</b>	.. Aliphatic polyester with halogen or (thio)ether group(s), production	1994 Previous code(s): E10-G02B
<b>E10-E04M1</b>	.. ring(s) present	1986	<b>E10-G02B2</b>	.. Other aliphatic polyester production	1994 Previous code(s): E10-G02B
<b>E10-E04M2</b>	.. ketone, nitro, halogen or unsaturation present	1986			
<b>E10-E04M3</b>	.. ether present, poly	1986			

<b>E10-G02C</b>	. <b>Aliphatic monoester with halogen or (thio)ether group(s), production</b> 1975	<b>E10-G02H2</b>	.. <b>Other aliphatic monoester, use gen</b> 1994 <i>Previous code(s): E10-G02H</i>
<b>E10-G02D</b>	. <b>Unsaturated monoester, production</b> 1975	<b>E10-G02H2A</b>	... <b>Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), use</b> 2002
<b>E10-G02D1</b>	.. <b>Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), production</b> 2002	<b>E10-G02H2B</b>	... <b>Other monoesters of unsaturated alcohols (e.g. vinyl acetate), use</b> 2002
<b>E10-G02D2</b>	.. <b>Other monoesters of unsaturated alcohols (e.g. vinyl acetate), production</b> 2002	<b>E10-G02H2C</b>	... <b>(Meth)acrylic acid esters), use</b> 2002
<b>E10-G02D3</b>	.. <b>(Meth)acrylic acid esters, production</b> 2002	<b>E10-G02H2D</b>	... <b>Monoesters of other unsaturated acids, use</b> 2002
<b>E10-G02D4</b>	.. <b>Monoesters of other unsaturated acids, production</b> 2002	<b>E10-G02H2E</b>	... <b>Saturated aliphatic esters (other), use</b> 2002
<b>E10-G02E</b>	. <b>Other aliphatic monoester, production</b> 1975	<b>E10-G03</b>	<b>Nitro compounds, general</b> One of the more specific codes are always applied in preference, unless 3 or more of them could be applied to the patent. 1994
<b>E10-G02U</b>	. <b>Use of esters - general</b> 2005	<b>E10-G03A</b>	. <b>With carbocyclic ring, production</b> 1994 <i>Previous code(s): E10-G03</i>
<b>E10-G02F</b>	. <b>Ester with carbocyclic ring(s), use</b> 1975-1993 <i>Now coded as: E10-G02F1, E10-G02F2</i>	<b>E10-G03B</b>	. <b>Other nitro, production</b> 1994 <i>Previous code(s): E10-G03</i>
<b>E10-G02F1</b>	.. <b>Ester with aromatic ring, use</b> 1994 <i>Previous code(s): E10-G02F</i>	<b>E10-G03C</b>	. <b>With carbocyclic ring, use</b> 1994 <i>Previous code(s): E10-G03</i>
<b>E10-G02F2</b>	.. <b>Ester with alicyclic ring, use</b> 1994 <i>Previous code(s): E10-G02F</i>	<b>E10-G03D</b>	. <b>Other nitro, use</b> 1994 <i>Previous code(s): E10-G03</i>
<b>E10-G02G</b>	. <b>Other polyester, use</b> 1975-1993 <i>Now coded as: E10-G02G1, E10-G02G2</i>	<b>E10-H</b>	<b>ETHERS AND HALOGEN COMPOUNDS</b>
<b>E10-G02G1</b>	.. <b>Aliphatic polyester with halogen or (thio)ether group(s), use</b> 1994 <i>Previous code(s): E10-G02G</i>	<b>E10-H01</b>	<b>Ether and thioether - general</b>
<b>E10-G02G2</b>	.. <b>Other aliphatic polyester, use</b> 1994 <i>Previous code(s): E10-G02G</i>	<b>E10-H01A</b>	. <b>Thioether with halogen</b> 1986
<b>E10-G02H</b>	. <b>Other monoester, use</b> 1975-1993 <i>Now coded as: E10-G02H1, E10-G02H2</i>	<b>E10-H01B</b>	. <b>Thioether with no halogen</b> 1986
<b>E10-G02H1</b>	.. <b>Aliphatic monoester with halogen or (thio)ether group(s), use</b> 1994 <i>Previous code(s): E10-G02H</i>	<b>E10-H01C</b>	. <b>Ether with halogen</b> 1986
		<b>E10-H01D</b>	. <b>Ether with no halogen, poly</b> 1986
		<b>E10-H01E</b>	. <b>Ether with no halogen, mono</b> 1986

<b>E10-H02</b>	<b>Halogen - general</b> From 199401, a new set of codes have been applied to halogen compounds which do not follow the same priority system, nor are they a subdivision, of the previous E10-H02 section codes. <b>1986-1993</b>	<b>E10-H03B1</b>	<b>.. F + Cl only, carbocyclic, production</b> <b>1994</b> <i>Previous code(s): E10-H02A, E10-H02B</i>
<b>E10-H02A</b>	<b>. F, bonded to aromatic ring</b> <b>1970-1993</b>	<b>E10-H03B2</b>	<b>.. F + Cl only, aliphatic, production</b> <b>1994</b> <i>Previous code(s): E10-H02B</i>
<b>E10-H02B</b>	<b>. F, not bonded to aromatic ring</b> <b>1970-1993</b>	<b>E10-H03C</b>	<b>. Cl only production - general</b> <b>1994</b> <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i>
<b>E10-H02C</b>	<b>. Br or I, bonded to aromatic ring</b> <b>1970-1993</b>	<b>E10-H03C1</b>	<b>.. Cl only, Cl bonded to aromatic ring, production</b> <b>1994</b> <i>Previous code(s): E10-H02E</i>
<b>E10-H02D</b>	<b>. Br or I, not bonded to aromatic ring</b> <b>1970-1993</b>	<b>E10-H03C2</b>	<b>.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), production</b> <b>1994</b> <i>Previous code(s): E10-H02F, E10-H02G</i>
<b>E10-H02E</b>	<b>. Cl, bonded to aromatic ring</b> <b>1970-1993</b>	<b>E10-H03C3</b>	<b>.. Cl only, unsaturated aliphatic, production</b> <b>1994</b> <i>Previous code(s): E10-H02G, E10-H02J</i>
<b>E10-H02F</b>	<b>. Cl, not bonded to aromatic ring - general</b> <b>1970-1993</b>	<b>E10-H03C4</b>	<b>.. Polychloroalkane, production</b> <b>1994</b> <i>Previous code(s): E10-H02H</i>
<b>E10-H02G</b>	<b>.. containing carbocyclic ring(s); poly-chloro-alkene and -alkyne</b> <b>1975-1993</b>	<b>E10-H03C5</b>	<b>.. Monochloroalkane, production</b> <b>1994</b> <i>Previous code(s): E10-H02K</i>
<b>E10-H02H</b>	<b>.. polychloroalkane</b> <b>1975-1993</b>	<b>E10-H03D</b>	<b>. Other halogen compound production - general</b> <b>1994</b> <i>Previous code(s): E10-H02</i>
<b>E10-H02J</b>	<b>.. monochloro-alkene and -alkyne</b> <b>1975-1993</b>	<b>E10-H03D1</b>	<b>.. Other halogen compound, carbocyclic, production</b> <b>1994</b> <i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>
<b>E10-H02K</b>	<b>.. monochloro-alkane</b> <b>1975-1993</b>	<b>E10-H03D2</b>	<b>.. Other halogen compound, aliphatic, production</b> <b>1994</b> <i>Previous code(s): E10-H02B, E10-H02D</i>
<b>E10-H03</b>	<b>Halogen production - general</b> <b>1994</b> <i>Previous code(s): E10-H02</i>	<b>E10-H04</b>	<b>Halogen use - general</b> <b>1994</b> <i>Previous code(s): E10-H02</i>
<b>E10-H03A</b>	<b>. F only production - general</b> <b>1994</b> <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	<b>E10-H04A</b>	<b>. F only use - general</b> <b>1994</b> <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>
<b>E10-H03A1</b>	<b>.. F only, F bonded to aromatic ring, production</b> <b>1994</b> <i>Previous code(s): E10-H02A</i>		
<b>E10-H03A2</b>	<b>.. F only, other carbocyclic (including F on chain of aromatic ring), production</b> <b>1994</b> <i>Previous code(s): E10-H02B</i>		
<b>E10-H03A3</b>	<b>.. F only, aliphatic, production</b> <b>1994</b> <i>Previous code(s): E10-H02B</i>		
<b>E10-H03B</b>	<b>. F + Cl only production - general</b> <b>1994</b> <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>		

<b>E10-H04A1</b>	<b>.. F only, F bonded to aromatic ring, use</b> 1994 <i>Previous code(s): E10-H02A</i>	<b>E10-H04D2</b>	<b>.. Other halogen compound, aliphatic, use</b> 1994 <i>Previous code(s): E10-H02B, E10-H02D</i>
<b>E10-H04A2</b>	<b>.. F only, other carbocyclic (including F on chain of aromatic ring), use</b> 1994 <i>Previous code(s): E10-H02B</i>	<hr/>	
<b>E10-H04A3</b>	<b>.. F only, aliphatic, use</b> 1994 <i>Previous code(s): E10-H02B</i>	<b>E10-J</b>	<b>HYDROCARBONS</b>
<b>E10-H04B</b>	<b>. F + Cl only use - general</b> 1994 <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	<b>E10-J01</b>	<b>-C-triple bond-C-, may form part of alicyclic ring</b> 1970-2011 <i>Now coded as: E10-J01A, E10-J01B</i>
<b>E10-H04B1</b>	<b>.. F + Cl only, carbocyclic, use</b> 1994 <i>Previous code(s): E10-H02A, E10-H02B</i>	<b>E10-J01A</b>	<b>Alkyne/cycloalkyne production</b> 2012
<b>E10-H04B2</b>	<b>.. F + Cl only, aliphatic, use</b> 1994 <i>Previous code(s): E10-H02B</i>	<b>E10-J01B</b>	<b>Alkyne/cycloalkyne use</b> 2012
<b>E10-H04C</b>	<b>. Cl only use - general</b> 1994 <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i>	<b>E10-J02A</b>	<b>Cycloaliphatic ring system present</b> 1970-1993 <i>Now coded as: E10-J02A1, E10-J02A2</i>
<b>E10-H04C1</b>	<b>.. Cl only, Cl bonded to aromatic ring, use</b> 1994 <i>Previous code(s): E10-H02E</i>	<b>E10-J02A1</b>	<b>Cycloaliphatic ring system present, production</b> 1994 <i>Previous code(s): E10-J02A</i>
<b>E10-H04C2</b>	<b>.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), use</b> 1994 <i>Previous code(s): E10-H02F, E10-H02G</i>	<b>E10-J02A2</b>	<b>Cycloaliphatic ring system present, use</b> 1994 <i>Previous code(s): E10-J02A</i>
<b>E10-H04C3</b>	<b>.. Cl only, unsaturated aliphatic, use</b> 1994 <i>Previous code(s): E10-H02G, E10-H02J</i>	<b>E10-J02B</b>	<b>Aromatic - general</b>
<b>E10-H04C4</b>	<b>.. Polychloroalkane, use</b> 1994 <i>Previous code(s): E10-H02H</i>	<b>E10-J02B1</b>	<b>. Production by hydrodealkylation or disproportionation</b> 1977
<b>E10-H04C5</b>	<b>.. Monochloroalkane, use</b> 1994 <i>Previous code(s): E10-H02K</i>	<b>E10-J02B2</b>	<b>. Purification</b> 1977
<b>E10-H04D</b>	<b>. Other halogen compound use - general</b> 1994 <i>Previous code(s): E10-H02</i>	<b>E10-J02B3</b>	<b>. Other production methods</b> 1977
<b>E10-H04D1</b>	<b>.. Other halogen compound, carbocyclic, use</b> 1994 <i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>	<b>E10-J02B4</b>	<b>. Uses</b> 1977
		<b>E10-J02C</b>	<b>Aliphatic olefinic - general</b>
		<b>E10-J02C1</b>	<b>. Production by oligomerisation</b> 1977
		<b>E10-J02C2</b>	<b>. Production by disproportionation of other olefins</b> 1977
		<b>E10-J02C3</b>	<b>. Other production methods</b> 1977
		<b>E10-J02C4</b>	<b>. Uses</b> 1977
		<b>E10-J02D</b>	<b>Aliphatic saturated - general</b>
		<b>E10-J02D1</b>	<b>. Methane</b> 1986
		<b>E10-J02D2</b>	<b>. Ethane, propane, (iso)butane</b> 1986

E10-J02D3 . 5 or more C

1986

**E11 PROCESSES, APPARATUS**

The codes in this section are applied to patents difficult to code chemically, i.e. insufficient chemical information has been provided. These codes are also used for general processes involving the use or production of organic dyes, pigments or inorganic compounds, and for analysis or treatment processes. E11-A to E11-K are only applied to organic reactions. There are a number of patents (Russia) whose inventive feature is the use made of vat residue, or waste from a production process, of undefined chemical composition. From 1994-2009 the codes applied to these patents included the code E11-T.

**CHEMICAL**

<b>E11-A</b>	<b>CYCLISATION</b>	<b>1970-2006</b>
	<i>Now coded as the more specific code(s) E11-A01, -A02</i>	
<b>E11-A01</b>	<b>. Cyclisation - processes, apparatus</b>	<b>2006</b>
<b>E11-A01A</b>	<b>.. Forming carbocyclic rings</b>	<b>2022</b>
<b>E11-A01B</b>	<b>.. Forming heterocyclic rings</b> Includes formation of cyclic carbonates from epoxide and CO <sub>2</sub> when applied alongside E11-F02B.	<b>2022</b>
<b>E11-A02</b>	<b>. Decyclisation (ring opening) - processes, apparatus</b>	<b>2006</b>
<b>E11-B</b>	<b>RING/CHAIN-EXPANSION/CONTRACTION</b>	<b>1970-2001</b>
	<i>Now coded as: E11-B01, E11-F01, -F02, -F03, -G01, -G02</i>	
<b>E11-B01</b>	<b>. Ring expansion/contraction</b>	<b>2002</b>
	<i>Previously coded as: E11-B</i>	
<b>E11-C</b>	<b>DEPOLYMERISATION</b>	
<b>E11-D</b>	<b>HYDROGENATION, REDUCTION</b> Includes hydrogenolysis	
<b>E11-D01</b>	<b>. Hydrogenation of unsaturated C-C bonds</b>	<b>2006</b>
<b>E11-D02</b>	<b>. Hydrogenation other</b>	<b>2006</b>

<b>E11-E</b>	<b>OXIDATION, DEHYDROGENATION</b>		<b>E11-F06</b>	<b>. Esterification, O-acylation, anhydride formation</b>	2002
<b>E11-E01</b>	<b>. Oxidation with O<sub>2</sub>, air</b>	2006	<b>E11-F07</b>	<b>. Addition of nitrogenous functions, (general)</b>	2002
<b>E11-E02</b>	<b>. Dehydrogenation of C-C bonds</b>	2006	<b>E11-F07A</b>	<b>.. Amination, N-alkylation, N- acylation</b>	2002
<b>E11-E03</b>	<b>. Other oxidation, dehydrogenation process</b>	2006	<b>E11-F07B</b>	<b>.. Nitration</b>	2002
<b>E11-F</b>	<b>ADDITION OR SUBSTITUTION REACTIONS - GENERAL/UNCLASSIFIED</b>		<b>E11-F07C</b>	<b>.. Ammonia oxidation, ammonoxidation</b>	2006
	From 2006 this code has been extended to cover both addition and substitution reactions. Substitution reactions were previously covered in E11-H.		<b>E11-F07D</b>	<b>.. Other N processes</b> Used for specified nitrogen- containing groups and includes cyanation. General references code as E11-F07.	2010
<b>E11-F01</b>	<b>. Oligomerisation, telomerisation</b>	2002	<b>E11-F08</b>	<b>. (Hydro) halogenation</b>	2002
	<i>Chain expansion previously coded under E11-B</i>		<b>E11-F09</b>	<b>. Addition of sulfur functions</b> e.g. sulfonation.	2002
<b>E11-F01A</b>	<b>.. Dimerisation</b> Dimerisation is a reaction in which two monomers combine to form a dimer. For example, conversion of ethene to butene.	2010	<b>E11-F10</b>	<b>. Addition of P / Si / B or other heteroatom (other than O, S, N and halogen)</b> <i>See also N07-D11.</i>	2010
<b>E11-F02</b>	<b>. Addition reactions of CO and/or CO<sub>2</sub>: hydroformylation; (oxy)carbonylation; carboxylation; homologation; etc.</b>	2002	<b>E11-F10A</b>	<b>.. Addition of phosphorus functions</b> E.g. phosphorylation.	2013
	<i>Chain expansion previously coded under E11-B</i>		<b>E11-F10B</b>	<b>.. Addition of silicon functions</b> E.g. silylation.	2013
<b>E11-F02A</b>	<b>.. Addition of CO to olefin bonds (hydroformylation)</b>	2006	<b>E11-F10C</b>	<b>.. Addition of boron functions</b> E.g. alkylation of boron.	2013
<b>E11-F02B</b>	<b>.. Other addition reactions of CO(2)</b>	2006	<b>E11-F10D</b>	<b>.. Addition of isotope or other heteroatom (other than O, N, S and halogen)</b> Reactions including metal carbon bond.	2013
<b>E11-F03</b>	<b>. Alkylation, arylation, acylation of C atoms; condensation; other carbon chain extension; reforming</b>	2002	<b>E11-F11</b>	<b>.. Complex and salt formation reactions</b> Includes salts of organic ammonium compounds and salts of alcohols and counter ions.	2014
	<i>Chain expansion previously coded under E11-B</i>				
<b>E11-F04</b>	<b>. Hydration, Hydroxylation</b>	2002			
<b>E11-F05</b>	<b>. Etherification, acetalisation, O- alkylation</b>	2002			

<b>E11-G</b>	<b>ELIMINATION/ CLEAVAGE REACTIONS - GENERAL OR UNCLASSIFIED</b> Includes cracking.	
<b>E11-G01</b>	. <b>Decarboxylation; decarbonylation</b> <i>Chain contraction previously coded under E11-B</i>	2002
<b>E11-G02</b>	. <b>Cracking; other C-C bond fission</b> <i>Chain contraction previously coded under E11-B</i>	2002
<b>E11-G03</b>	. <b>Hydrolysis</b>	2002
<b>E11-G04</b>	. <b>De(hydro)halogenation</b>	2006
<b>E11-G05</b>	. <b>Dehydration</b> Applied where dehydration results in a product formation, e.g. dehydration of ethanol fuel; or manufacture of ethylene by dehydration of ethanol.	2010
<b>E11-G06</b>	. <b>Dehydroxylation</b> Removal of hydroxy / hydroxyl (OH) groups.	2010
<b>E11-G07</b>	. <b>Deamination</b> Removal of amine / amino (NH <sub>2</sub> , NHR) groups.	2010
<b>E11-G08</b>	. <b>Desulfurization, desulfonation and desulfation reactions</b> Covers desulfurization, desulfonation and desulfation which takes place within the molecule to give a new product.	2014
<b>E11-G09</b>	. <b>Dealkoxylation</b> Removal of alkoxy groups.	2023
<b>E11-H</b>	<b>EXCHANGE REACTIONS - GENERAL OR UNCLASSIFIED</b> From 2006 "substitution reactions" have been transferred to E11-F. Prior to 2006 substitution reactions remain searchable in E11-H.	
<b>E11-H01</b>	. <b>Transesterification; ether / acetal exchange</b>	2002
<b>E11-H02</b>	. <b>Olefin metathesis</b>	2006
<b>E11-H03</b>	. <b>Rearrangement reactions</b> Any rearrangement reaction which gives a non-isomeric product e.g. Beckmann rearrangement.	2016
<b>E11-J</b>	<b>ISOMERISATION, RACEMISATION</b>	
<b>E11-J01</b>	. <b>Isomerisation</b>	2006
<b>E11-J02</b>	. <b>Racemisation</b>	2006
<b>E11-J03</b>	. <b>Asymmetric synthesis</b>	2013
<b>E11-K</b>	<b>GENERAL AND OTHER CHEMICAL PROCESSES</b>	
<b>E11-K01</b>	. <b>Production by combinatorial chemistry</b> Applied in addition to other (structural) codes	2002
<b>E11-K02</b>	. <b>Apparatus for combinatorial chemistry</b> Applied in addition to other (structural) codes	2002
<b>E11-K03</b>	. <b>Green Chemistry</b> Applied for chemical processes designed to minimize the production of waste by-products and having no side chain reactions. May be used in conjunction with E11-W. See also N07-K01.	2010
<b>PHYSICAL</b>		
<b>E11-L</b>	<b>RESOLUTION</b>	
<b>E11-M</b>	<b>FERMENTATION; ENZYME CATALYSIS</b>	
<b>E11-N</b>	<b>ELECTROCHEMICAL, ELECTRIC DISCHARGE</b>	
<b>E11-P</b>	<b>IRRADIATION, PHOTOGRAPHIC</b>	
<b>E11-Q</b>	<b>SEPARATION, REMOVAL, ANALYSIS - GENERAL</b> The following are not in order of priority.	
<b>E11-Q01</b>	<b>Separation, extraction, recovery, purification</b>	1986
<b>E11-Q01A</b>	. <b>Purification by chemical means</b>	2005



<b>E11-Q01B</b>	. <b>Purification by physical means</b> 2005	<b>E11-R</b>	<b>TREATMENT, DYEING, OTHER PHYSICAL PROCESSES - GENERAL</b> The following are not in order of priority.
<b>E11-Q01C</b>	. <b>Extraction from natural materials</b> Covers chemical compounds extracted from a plant or organism or any other natural materials. Does not include standard lab extraction methods. 2010	<b>E11-R01</b>	. <b>Treatment during preparation, manufacture</b> 1986
<b>E11-Q02</b>	<b>Removal, effluent treatment</b> 1986	<b>E11-R01A</b>	.. <b>by addition of compound</b> 1986
<b>E11-Q02A</b>	. <b>Engine exhaust treatment</b> 2005	<b>E11-R01B</b>	.. <b>by physical process, crystallisation</b> 1986
<b>E11-Q02B</b>	. <b>Industrial effluent treatment</b> 2005	<b>E11-R02</b>	. <b>Treatment after preparation, manufacture:</b> 1986
<b>E11-Q02C</b>	. <b>Other</b> 2005	<b>E11-R02A</b>	.. <b>by grinding, particle size reduction</b> 1986
<b>E11-Q03</b>	<b>Analysis, or detection - general</b> 1986	<b>E11-R02B</b>	.. <b>by solvent treatment crystallisation, particle size increase</b> For crystallisation prior to 198601 search E11-Q. 1986
<b>E11-Q03A</b>	. <b>Mass spectroscopy</b> 1986	<b>E11-R02C</b>	.. <b>other</b> 1986
<b>E11-Q03B</b>	. <b>NMR, ESR spectroscopy</b> 1986	<b>E11-R03</b>	. <b>Dyeing</b> 1986
<b>E11-Q03C</b>	. <b>Radio, IR, vis, UV, Raman spectroscopy</b> 1986	<b>E11-R04</b>	. <b>Other physical process</b> 1986
<b>E11-Q03D</b>	. <b>X-ray, gamma-ray</b> 1986	<b>E11-R04A</b>	.. <b>Allotropism</b> e.g from graphite to diamond. 2012
<b>E11-Q03E</b>	. <b>Chromatography</b> 1986	<b>E11-S</b>	<b>STORAGE</b> 1986
<b>E11-Q03F</b>	. <b>Electrophoresis, electrostatics</b> 1986	<b>E11-T</b>	<b>VAT RESIDUE, WASTE FROM PRODUCTION</b> 1994-2009 <i>Retired.</i>
<b>E11-Q03G</b>	. <b>Microscopy light, electron</b> 1986	<b>E11-W</b>	<b>ENVIRONMENTALLY FRIENDLY INVENTIONS (COMPOSITIONS / APPLICATIONS)</b> Only applied in combination with other chemical manual codes. Reference must be made in the published claims to 'environment(al)' or 'carbon- friendly' benefits or improvement(s) of the novelty. May be used in conjunction with E11-K03. See also N06-G. 2010
<b>E11-Q03H</b>	. <b>Sound, ultrasonics</b> 1986		
<b>E11-Q03J</b>	. <b>Polarography, potentiometry, electrolysis</b> 1986		
<b>E11-Q03K</b>	. <b>Radioactivity, isotope</b> 1986		
<b>E11-Q03L</b>	. <b>Colour change (visual)</b> 1986		
<b>E11-Q03M</b>	. <b>Magnetism</b> 1986		
<b>E11-Q03N</b>	. <b>Thermal means</b> 1986		

## E12 PHYSICAL FORM

Apply codes from this section only when the physical form is the main or a key inventive feature.

<b>E12-A</b>	<b>SOLID FORM - GENERAL</b>	2011	<b>E12-B01</b>	. <b>Ionic liquid</b> A salt in a liquid state, e.g. alkyl-substituted imidazolium and pyridinium cations, with halide or trihalogenoaluminate anions.	2011
<b>E12-A01</b>	. <b>Crystalline form</b>	2011	<b>E12-B02</b>	. <b>Solvated form</b> Includes solution.	2011
<b>E12-A02</b>	. <b>Amorphous form</b> The non-crystalline solid state of a typically crystalline solid.	2011	<b>E12-B03</b>	. <b>Emulsion</b>	2011
<b>E12-A03</b>	. <b>Capsule or microcapsule</b>	2011	<b>E12-B04</b>	. <b>Dispersion, suspension</b>	2011
<b>E12-A04</b>	. <b>Film, sheet</b> Belt, ribbon, plate, membrane.	2011	<b>E12-B05</b>	. <b>Cream, paste</b>	2011
<b>E12-A05</b>	. <b>Coated form</b> Apply this code when the novelty is a coated form, e.g. metal with a TiO <sub>2</sub> coating.	2011	<b>E12-B06</b>	. <b>Melt (excluding E12-A01)</b> The liquid form of a substance that is normally solid at room temperature. The transition of matter from a solid state to a liquid state.	2011
<b>E12-A06</b>	. <b>Pellet</b> Includes prill, granule.	2012	<b>E12-B07</b>	. <b>Liquid crystals</b>	2012
<b>E12-A07</b>	. <b>Powder</b> Includes dusting powder.	2012	<b>E12-B08</b>	. <b>Gel</b>	2012
<b>E12-A08</b>	. <b>Particles and particulate forms</b>	2012	<b>E12-C</b>	<b>Gaseous form - general</b>	2011
<b>E12-A09</b>	. <b>Moulded articles</b>	2012	<b>E12-C01</b>	. <b>Aerosol</b>	2011
<b>E12-A09A</b>	.. <b>Tablets</b>	2012	<b>E12-C02</b>	. <b>Aerogel</b>	2014
<b>E12-A09B</b>	.. <b>Bars</b>	2012			
<b>E12-A10</b>	. <b>Foam, expanded/porous forms</b>	2012			
<b>E12-A11</b>	. <b>Laminate</b>	2012			
<b>E12-A12</b>	. <b>Whisker, fibre or wire</b>	2012			
<b>E12-A13</b>	. <b>Microspheres; spheres</b>	2012			
<b>E12-A14</b>	. <b>Flakes</b>	2013			
<b>E12-A15</b>	. <b>Core-shell</b> Formulation containing core-shell structure.	2021			
<b>E12-B</b>	<b>Liquid form, semi solid form - general</b>	2011			

## E21-E27 ORGANIC DYES AND PIGMENTS (E2)

This section contains organic compounds used as colouring matters, fluorescent brighteners, and their immediate precursors. Each chromophore present is coded and, where necessary, more than one code is applied.

### E21 AZO DYES

Includes formazan dyes which are treated as mono-azo dyes.

E21	General
<b>E21-A</b>	<b>WATER-SOLUBLE, CATIONIC</b>
<b>E21-A</b>	<b>General</b>
<b>E21-A01</b>	<b>monoazo-carbocyclic diazo, carbocyclic coupler</b>
<b>E21-A02</b>	<b>as above, but other coupler</b>
<b>E21-A03</b>	<b>monoazo-heterocyclic diazo, carbocyclic coupler</b>
<b>E21-A04</b>	<b>as above, but other coupler</b>
<b>E21-A05</b>	<b>monoazo-cyclic onium type</b> This code has precedence over codes E21-A01 to E21-A04.
<b>E21-A06</b>	<b>disazo</b>
<b>E21-A07</b>	<b>tris- and polyazo</b>
<b>E21-B</b>	<b>WATER-SOLUBLE, NOT CATIONIC</b>
<b>E21-B</b>	<b>General</b>
<b>E21-B01</b>	<b>metallised-1:1 Cr or Co complex</b>
<b>E21-B02</b>	<b>metallised-1:2 Cr or Co complex containing -SO<sub>3</sub>-</b>
<b>E21-B03</b>	<b>metallised-1:2 Cr or Co complex not containing -SO<sub>3</sub>-</b>
<b>E21-B04</b>	<b>Other complex (Cu, Ni etc.)</b>
<b>E21-B05</b>	<b>unmetallised-monoazo</b>
<b>E21-B06</b>	<b>unmetallised-disazo</b>
<b>E21-B07</b>	<b>unmetallised-tris- and polyazo</b>
<b>E21-C</b>	<b>WATER INSOLUBLE</b> For monoazo, code diazo- and coupling- components (according to point of attachment of the azo group). This section includes metal sulfonate pigments.
<b>E21-C</b>	<b>Water-insoluble azo - general</b>
<b>E21-C01</b>	<b>. Water-insoluble, monoazo - general</b>

<b>E21-C10</b>	<b>.. monoazo, diazo component - aniline derivative</b>
<b>E21-C11</b>	<b>.. monoazo, diazo component - other carbocyclic systems</b>
<b>E21-C12</b>	<b>.. monoazo, diazo component - aminothiazole type</b> Includes benzthiazoles.
<b>E21-C13</b>	<b>.. monoazo, diazo component - other heterocyclic system</b>
<b>E21-C14</b>	<b>.. monoazo, diazo component - two or more of above types</b>
<b>E21-C15</b>	<b>.. monoazo, coupling component - benzene derivative</b>
<b>E21-C16</b>	<b>.. monoazo, coupling component - other carbocyclic system</b>
<b>E21-C17</b>	<b>.. monoazo, coupling component - heterocyclic</b>
<b>E21-C18</b>	<b>.. monoazo, coupling component - miscellaneous</b>
<b>E21-C19</b>	<b>.. monoazo, coupling component - two or more of above types</b>
<b>E21-C02</b>	<b>. Water-insoluble, disazo - general</b> For codes E21-C20 to E21-C23, the definitions of the letters A, D, E, M, and Z are as follows:- A = diazocomponent (amine) D = tetraazocomponent (diamine) E = coupling (end) component M = middle component (amine and coupling) Z = double coupling component
<b>E21-C20</b>	<b>.. disazo-type A → M → E</b>
<b>E21-C21</b>	<b>.. disazo-type D → (E)2</b>
<b>E21-C22</b>	<b>.. disazo-type A → Z ← A</b>
<b>E21-C23</b>	<b>.. Disazo-other</b> Includes condensed.
<b>E21-C03</b>	<b>. Water-insoluble tris(poly)azo</b>
<b>E21-D</b>	<b>REACTIVE</b> <b>Not</b> coded in E21-A/B/C. Use all relevant codes between E21-D01 and E21-D09 as appropriate.
<b>E21-D</b>	<b>General</b>
<b>E21-D01</b>	<b>Reactive system - triazine type</b>
<b>E21-D02</b>	<b>Reactive system - other heterocyclic</b>
<b>E21-D03</b>	<b>Reactive system - labile group linked by SO<sub>2</sub> (NR)</b>

<b>E21-D04</b>	<b>Reactive system - other systems</b>
<b>E21-D05</b>	<b>Chromophore - metallised monoazo Cu, Ni complex</b>
<b>E21-D06</b>	<b>Chromophore - metallised dis- and polyazo Cu, Ni complex</b>
<b>E21-D07</b>	<b>Chromophore - other metal complex</b>
<b>E21-D08</b>	<b>Chromophore - unmetallised monoazo</b>
<b>E21-D09</b>	<b>Chromophore - unmetallised dis- and polyazo</b>
<b>E21-E</b>	<b>DIAZONIUM COMPOUND</b>
<b>E21-E</b>	<b>General</b>

## **E22 ANTHRAQUINONE DYES**

Includes anthraquinone intermediates (which are also coded in section (E1)), compounds containing a condensed anthraquinone ring system, and extended quinones of more than two fused rings.

<b>E22</b>	<b>General</b>
<b>E22-A</b>	<b>WATER-SOLUBLE, CATIONIC</b>
<b>E22-A</b>	<b>General</b>
<b>E22-B</b>	<b>WATER-SOLUBLE, NOT CATIONIC</b>
<b>E22-B</b>	<b>General</b>
<b>E22-B01</b>	<b>1-2 substituents</b>
<b>E22-B02</b>	<b>3 substituents</b>
<b>E22-B03</b>	<b>4 substituents</b>
<b>E22-B04</b>	<b>5 substituents</b>
<b>E22-B05</b>	<b>6-8 substituents</b>
<b>E22-C</b>	<b>WATER-INSOLUBLE</b>
<b>E22-C</b>	<b>General</b>
<b>E22-C01</b>	<b>0-2 substituents</b>
<b>E22-C02</b>	<b>3 substituents</b>
<b>E22-C03</b>	<b>4 substituents</b>
<b>E22-C04</b>	<b>5 substituents</b>
<b>E22-C05</b>	<b>6-8 substituents</b>
<b>E22-D</b>	<b>REACTIVE</b> <b>Not coded in E22-A/B/C.</b>
<b>E22-D</b>	<b>General</b>
<b>E22-D01</b>	<b>1-2 substituents</b>
<b>E22-D02</b>	<b>3 substituents</b>
<b>E22-D03</b>	<b>4 substituents</b>
<b>E22-D04</b>	<b>5 substituents</b>
<b>E22-D05</b>	<b>6-8 substituents</b>
<b>E22-E</b>	<b>POLYCYCLIC OTHER THAN ANTHRAQUINONE</b>
<b>E22-E</b>	<b>General</b>
<b>E22-E01</b>	<b>3-4 rings</b> Includes derivatives of anthraquinone function.
<b>E22-E02</b>	<b>5-7 rings</b>
<b>E22-E03</b>	<b>8 or more rings</b>

## E23 PHTHALOCYANINE (MACROCYCLIC) DYES

<b>E23</b>	<b>General</b>
<b>E23-A</b>	<b>WATER-SOLUBLE</b>
<b>E23-A</b>	<b>General</b>
<b>E23-A01</b>	<b>Reactive</b>
<b>E23-A02</b>	<b>Non-reactive</b>
<b>E23-B</b>	<b>WATER-INSOLUBLE</b>
<b>E23-B</b>	<b>General</b>

## E24 SPECIAL CLASSES OF DYES

<b>E24</b>	<b>General</b>
<b>E24-A</b>	<b>FLUORESCENT BRIGHTENERS AND DYES</b>
<b>E24-A</b>	<b>General</b>
<b>E24-A01</b>	<b>Stilbene type</b> 1970-2001 <i>Now coded as: E24-A04A (brighteners); E24-A05 (dyes)</i>
<b>E24-A02</b>	<b>Coumarin or benzoxazole type</b> 1970-2001 <i>Now coded as: E24-A04B (brighteners); E24-A05 (dyes)</i>
<b>E24-A03</b>	<b>Other type</b> 1970-2001 <i>Now coded as: E24-A04C (brighteners); E24-A05 (dyes)</i>
<b>E24-A04</b>	<b>Fluorescent Brighteners, general</b> 2002 <i>Previously coded under: E24-A</i>
<b>E24-A04A</b>	<b>. Stilbene type</b> 2002 <i>Previously coded under: E24-A01</i>
<b>E24-A04B</b>	<b>. Coumarin or benzoxazole type</b> 2002 <i>Previously coded under: E24-A02</i>
<b>E24-A04C</b>	<b>. Other type</b> 2002 <i>Previously coded under: E24-A03</i>
<b>E24-A05</b>	<b>Fluorescent Dyes</b> 2002 <i>Previously coded under: E24-A:</i>
<b>E24-A06</b>	<b>Luminescent dyes - general</b> 2005
<b>E24-A06A</b>	<b>. Luminescent compounds containing metal</b> 2005
<b>E24-A06B</b>	<b>. Luminescent heterocyclics</b> 2005
<b>E24-A06C</b>	<b>. Other luminescent compounds</b> 2005
<b>E24-B</b>	<b>POLYMERISED AND POLYCONDENSED DYES, AND PRECURSORS</b>
<b>E24-B</b>	<b>General</b> Also code the monomer in section (E2)

<b>E24-C</b>	<b>MIXED CHROMOPHORES</b>	
<b>E24-C</b>	<b>General</b> Also code constituent dye chromophores in their appropriate groups.	
<b>E24-D</b>	<b>(NEAR) INFRA-RED DYES</b>	
<b>E24-D</b>	<b>General</b> Also code chromophores in their appropriate groups.	2002
<b>E24-E</b>	<b>UV ABSORBERS</b> Note: Only coded in E2 section when UV Absorber is coloured.	
<b>E24-E</b>	<b>General</b> Also code chromophores in their appropriate groups.	2002
<b>E24-U</b>	<b>NANOSTRUCTURES</b> Note: Defines the structure of the substrate, <u>not</u> the form of the dye or pigment.	
<b>E24-U</b>	<b>Dye or pigment bound to nanostructure</b> The dye or pigment bound to the nanostructure may be coded separately.	2010

<b>E25</b>	<b>GENERAL AND OTHER DYES</b>	
<b>E25</b>	<b>Dyes and pigments - general</b>	
<b>E25-A</b>	<b>Nitro, nitroso</b>	
<b>E25-A</b>	<b>General</b>	
<b>E25-B</b>	<b>METHINE, STYRYL</b>	
<b>E25-B</b>	<b>General</b>	
<b>E25-B01</b>	<b>Methine dye used as electrophotographic charge transport agent</b> <i>Previous code(s): E25-B</i>	1994
<b>E25-B02</b>	<b>Methine dye used in a silver halide photosensitive photographic composition</b> e.g. as photosensitiser or antihalation dye. <i>Previous code(s): E25-B</i>	1994
<b>E25-B03</b>	<b>Other</b> <i>Previous code(s): E25-B</i>	1994
<b>E25-C</b>	<b>AZAMETHINE</b> Includes =N-	
<b>E25-C</b>	<b>General</b>	
<b>E25-D</b>	<b>TRI- AND DI-ARYLMETHANE</b>	
<b>E25-D</b>	<b>General</b>	
<b>E25-E</b>	<b>OTHER TYPES - GENERAL</b> In order of priority: E25-E01 > E25-E02 > E25-E03.	
<b>E25-E</b>	<b>General</b>	
<b>E25-E01</b>	<b>Ring(s) containing N</b>	1986
<b>E25-E02</b>	<b>Ring(s) containing O</b>	1986
<b>E25-E03</b>	<b>Other</b>	1986
<b>E25-F</b>	<b>NATURAL DYE OF UNKNOWN STRUCTURE</b>	1994
<b>E25-F</b>	<b>General</b>	1994
<b>E25-G</b>	<b>REACTIVE DYE GENERAL</b> Includes reactive dyes without any specific chromophore and may also be applied with other codes for general classes of reactive dyes.	2021

## E26 DYE PRECURSORS EXCLUDING E21-E, E24-B

Includes coupling components, colour couplers, oxidation bases, leuco bases; and photo-, thermo-, piezo- or halo- chromic compounds. Compounds coded here should also receive appropriate section (E1) codes.

E26	General	
<b>E26-A</b>	<b>COUPLERS</b>	
<b>E26-A</b>	<b>General</b>	1975
<b>E26-A01</b>	<b>Azo</b>	1986
<b>E26-A02</b>	<b>Condensation: photographic</b>	1986
<b>E26-A03</b>	<b>Condensation: other; oxidation; other</b>	1986
<b>E26-B</b>	<b>LACTONES, LACTAMS, SULTONES, SULTAMS, PHOTOCHROMICS, SPIROPYRANS</b>	1975
<b>E26-B</b>	<b>General</b>	
<b>E26-C</b>	<b>OTHER DYE PRECURSORS</b>	1975
<b>E26-C</b>	<b>General</b>	

## E27 DYE FORMULATIONS; MORPHOLOGY

Inventions relating to formulations or specific forms/modifications of known dyes and pigments are coded here from 2002. Includes processes where modifying or treating the chromophore is key to the invention. Where appropriate, codes for the individual chromophores are additionally applied.

E27-A	FORMULATIONS	
<b>E27-A</b>	<b>General</b>	2002
<b>E27-A01</b>	<b>Pigment formulation</b>	2002
<b>E27-A02</b>	<b>Dyestuff formulation</b>	2002
<b>E27-B</b>	<b>MORPHOLOGY</b>	
	Indexed where specific shape or form, or process for treating chromophore is claimed or key to the invention.	2002
<b>E27-B</b>	<b>General</b>	2002
<b>E27-B01</b>	<b>Pigments</b>	2002
<b>E27-B01A</b>	<b>. Pigments morphology (nano-form)</b>	
	Applied where specific shape or form of pigment is specified as a nano-form.	2010
<b>E27-B02</b>	<b>Dyestuffs</b>	2002
<b>E27-B02A</b>	<b>. Dyes morphology (nano-form)</b>	
	Applied where specific shape or form of dye is specified as a nano-form.	2010
<b>E27-B03</b>	<b>Others</b>	2002
<b>E27-B03A</b>	<b>. Other chromophores morphology (nano-form)</b>	
	Applied where specific shape or form of non-dye, non-pigment chromophore is specified as a nano-form.	2010

## E31-E35 INORGANIC CHEMISTRY (E3)

In general, the overall priority is:-

E35 > 34 > 33 > 32 > 31

However, the following rules should also be noted.

- Code E31-E (peroxide) has priority over all other section (E3) codes.
- Code E32-B (cyanogen and derivatives) has priority over E33, 34 and E35.
- Within each of E32, E33, E34 and E35 all appropriate codes are assigned.
- Within E31, a compound is given the last code letter, while within the subdivisions of these the first appropriate code is applied.  
E31-E > E31-Q > E31-P >> E31-K > E31-J > → E31-A  
while E31-P06B > E31-P06C  
and E31-Q02 > E31-Q04
- E31 has priority over E32, E33, E34, E35 for ammonium, cyanogen and metal derivatives of:- hydrides (metals only) (E31-A+) oxyacids of halogens (E31-C) hyposulfite, polythionate/ite (E31-F+) thiosulfate (E31-F+) compounds of Se, Te (E31-G) amide, azide, imide (E31-H+) nitride, nitrite, nitrosyl (E31-H+) oxyacids of P, phosphide (E31-K+) compounds of As (E31-L) and Sb (E31-M) carbides (E31-N+) compounds of Si (E31-P+) compounds of B (E31-Q+)
- E31 has priority over E33, E34 for sulphides of:- alkali metal, Mg, Ca, Sr, Ba (E31-F+).

### Note

- Specific isotopes and radioactive inorganic compounds of elements not naturally radioactive so are coded in section (E3) with the addition of code E05-R

## E31 NON-METALLIC ELEMENTS, METALLOIDS AND COMPOUNDS

This general code is used for vague disclosures such as Non-metallic elements and their compounds or if five or more E31 codes would apply.

E31	General	
<b>E31-A</b>	<b>HYDROGEN, METAL HYDRIDE, WATER - GENERAL</b> Excludes H of acids.	
<b>E31-A01</b>	<b>H2 + CO</b>	1986
<b>E31-A02</b>	<b>H2 production, storage</b>	1986
<b>E31-A02A</b>	. <b>By electrical method</b>	2005
<b>E31-A02B</b>	. <b>Storage</b>	2005
<b>E31-A02C</b>	. <b>Other</b>	2005
<b>E31-A03</b>	<b>H2 use, detection, removal</b>	1986
<b>E31-A04</b>	<b>metal hydride</b>	1986
<b>E31-A05</b>	<b>water, other</b>	1986
<b>E31-B</b>	<b>HALOGEN (X), X ACID AND HALIDE (HAL) - GENERAL</b>	
<b>E31-B01</b>	<b>Electrical production of X</b> Includes electrolyte and apparatus.	1975
<b>E31-B02</b>	<b>production of X by other methods, production of HX or inter-X compound</b>	1975
<b>E31-B02A</b>	. <b>F, Br, I element production</b>	2005
<b>E31-B02B</b>	. <b>Cl element production</b>	2005
<b>E31-B02C</b>	. <b>F, Br, I compound production</b>	2005
<b>E31-B02D</b>	. <b>Cl compound production</b>	2005
<b>E31-B03</b>	<b>use of X or compound containing X - general</b> For oxy X compound see E31-C.	1975
<b>E31-B03A</b>	. <b>F, Br, I element</b>	1986
<b>E31-B03B</b>	. <b>Cl element</b>	1986



<b>E31-B03C</b>	<b>. F, Br, I compound</b>	1986	<b>E31-F01A</b>	<b>. removal of S oxide</b>	1986
<b>E31-B03D</b>	<b>. Cl compound</b>	1986	<b>E31-F01B</b>	<b>. removal of S hydride</b>	1986
<b>E31-C</b>	<b>OXIDE OR OXYACID OF HALOGEN, INCLUDING SALTS</b> Oxide or oxyacid of halogen, including salts.		<b>E31-F01C</b>	<b>. removal of other S compound</b>	1986
<b>E31-D</b>	<b>OXYGEN, OZONE; OXIDE - GENERAL</b>		<b>E31-F02</b>	<b>production of S, H<sub>2</sub>S (or salts), polysulfide</b> Excludes E31-F01.	1975
<b>E31-D01</b>	<b>O<sub>2</sub> production, storage</b> Oxygen or oxygen ion production or storage.	1986	<b>E31-F03</b>	<b>production of other S compound</b>	1975
<b>E31-D02</b>	<b>O<sub>2</sub> use, detection, removal</b>	1986	<b>E31-F04</b>	<b>Use of elemental sulfur, (poly)sulfide or oxide of S</b> Includes complex oxides.	1975
<b>E31-D03</b>	<b>O<sub>3</sub> ; activated oxygen etc.</b>	1986	<b>E31-F05</b>	<b>Use of other S compound</b> Includes S oxyacid.	1975
<b>E31-D04</b>	<b>oxide</b>	1986	<b>E31-G</b>	<b>SELENIUM (SE) OR TELLURIUM (TE) OR COMPOUND THEREOF</b>	
<b>E31-D05</b>	<b>Hydroxide ion</b> Includes hydroxide ion and active species such as hydroxy radical.	2005	<b>E31-H</b>	<b>NITROGEN, COMPOUND THEREOF GENERAL</b>	
<b>E31-E</b>	<b>PEROXIDE, PERACID; SALTS THEREOF</b> N.B. has priority over all other section (E3) codes.		<b>E31-H01</b>	<b>Removal of nitrogen oxides from waste gases etc. catalytically</b>	1977
<b>E31-E01</b>	<b>Hydrogen peroxide</b>	2005	<b>E31-H02</b>	<b>Other methods for removing N oxides from waste gases etc.</b>	1977
<b>E31-E02</b>	<b>Percarbonate</b>	2005	<b>E31-H03</b>	<b>Elemental N; compound containing halogen and/or sulfur</b>	1977
<b>E31-E03</b>	<b>Persulfate</b>	2005	<b>E31-H04</b>	<b>Production of other N compound</b> Nitride, metal nitride.	1977
<b>E31-E04</b>	<b>Perborate</b>	2005	<b>E31-H05</b>	<b>Use of other N compound</b> Nitride, metal nitride.	1977
<b>E31-E05</b>	<b>Other inorganic peroxides</b> Includes superoxides as well as pernitrates, perphosphates and metal peroxides.	2005	<b>E31-J</b>	<b>NOBLE GAS (OR COMPOUND)</b>	
<b>E31-F</b>	<b>SULFUR; COMPOUND THEREOF - GENERAL</b>		<b>E31-K</b>	<b>PHOSPHORUS OR COMPOUND THEREOF - GENERAL</b>	
<b>E31-F01</b>	<b>Removal of S compound(s) from wastes etc., optionally with recovery of S values (general)</b> One of the E11-Q02 codes must be applied as well whenever this code or one of its sub-divisions (E31-F01A - E31-F01C) is applied. Always try to apply one of the more specific codes in preference to this one.	1975	<b>E31-K01</b>	<b>catalyst containing P (or compound)</b>	1975
			<b>E31-K02</b>	<b>H<sub>3</sub>PO<sub>4</sub> (optionally some polyphosphoric acid) production</b>	1975
			<b>E31-K03</b>	<b>orthophosphate (optionally some polyphosphate) - production</b>	1975

<b>E31-K04</b>	<b>P; other P compound - production</b> Includes polyphosphates, thiophosphates and thiopolyphosphates. 1975	<b>E31-N03D</b>	. <b>Inert</b> 2005
<b>E31-K05</b>	<b>Orthophosphate use - general</b> Includes acid and P heteropolyacid. 1975	<b>E31-N04</b>	<b>use of C - general</b> e.g. as purifier, catalyst. 1975
<b>E31-K05A</b>	. <b>orthophosphoric acid</b> 1986	<b>E31-N04A</b>	. <b>diamond, cubic C</b> 1986
<b>E31-K05B</b>	. <b>counterion is metal from Section 35</b> 1986	<b>E31-N04B</b>	. <b>graphite, (other) pyrolytic</b> 1986
<b>E31-K05C</b>	. <b>counterion is metal from Section 34</b> 1986	<b>E31-N04C</b>	. <b>other form of C, active</b> 1986
<b>E31-K05D</b>	. <b>counterion is metal from Section 33</b> 1986	<b>E31-N04D</b>	. <b>other form of C, inert</b> 1986
<b>E31-K05E</b>	. <b>counterion is ion from Section 32, 31 or is organic</b> 1986	<b>E31-N04E</b>	. <b>C, fibre, use</b> Includes active and inert forms. 2012
<b>E31-K06</b>	<b>Polyphosphate, use</b> Includes meta. 1975	<b>E31-N05</b>	<b>compound of C - general</b> See E31-A for CO with H2 mixtures. 1975
<b>E31-K07</b>	<b>P; other P compound, use</b> Includes polyphosphates, thiophosphates and thiopolyphosphates. 1975	<b>E31-N05A</b>	. <b>metal carbide</b> 1986
<b>E31-L</b>	<b>ARSENIC OR COMPOUND THEREOF</b>	<b>E31-N05B</b>	. <b>(thio) CO, carbonyl compound</b> For metal carbonyls see code for metal. 1986
<b>E31-M</b>	<b>ANTIMONY COMPOUND</b>	<b>E31-N05B1</b>	.. <b>Carbon monoxide</b> 2005
<b>E31-N</b>	<b>CARBON OR COMPOUND THEREOF - GENERAL</b>	<b>E31-N05B2</b>	.. <b>other</b> 2005
<b>E31-N01</b>	<b>C fibre production</b> 1975	<b>E31-N05C</b>	. <b>CO2</b> Includes carbonic acid. 1986
<b>E31-N02</b>	<b>C modification</b> Includes C fibre graphitisation. 1975	<b>E31-N05D</b>	. <b>other C compound</b> 1986
<b>E31-N03</b>	<b>C production</b> Includes diamonds. 1975	<b>E31-P</b>	<b>SILICON OR COMPOUND THEREOF- GENERAL</b>
<b>E31-N03A</b>	. <b>Diamond, cubic C</b> 2005	<b>E31-P01</b>	<b>production and/or modification of silica or hydrate</b> 1975
<b>E31-N03B</b>	. <b>Graphite (other) pyrolytic</b> Not C fiber graphitisation- E31- N02 2005	<b>E31-P02</b>	<b>mixture of silica and alumina (may be chemically combined) - general</b> 1975
<b>E31-N03C</b>	. <b>Active</b> 2005	<b>E31-P02A</b>	. <b>zeolite production</b> 1986
		<b>E31-P02B</b>	. <b>zeolite use</b> 1986
		<b>E31-P02C</b>	. <b>non-zeolite production</b> 1986
		<b>E31-P02D</b>	. <b>non-zeolite use</b> 1986
		<b>E31-P03</b>	<b>use of silica, other than mixture with alumina</b> 1975

<b>E31-P04</b>	<b>fluorosilicate; silicate mineral (other than +Al)</b>	1975
<b>E31-P05</b>	<b>other silicate - general</b>	1975
<b>E31-P05A</b>	<b>. non alkali(ne earth) metal present</b>	1986
<b>E31-P05B</b>	<b>. alkaline earth metal present</b>	1986
<b>E31-P05C</b>	<b>. alkali metal present</b>	1986
<b>E31-P05D</b>	<b>. other silicate</b>	1986
<b>E31-P06</b>	<b>Silicon; other Si compound - general</b> Three or more codes roll up.	1975
<b>E31-P06A</b>	<b>. Si element</b>	1986
<b>E31-P06B</b>	<b>. Si halide, hydride</b>	1986
<b>E31-P06C</b>	<b>. Si carbide</b>	1986
<b>E31-P06D</b>	<b>. Si nitride</b>	1986
<b>E31-P06E</b>	<b>. other Si compound</b>	1986
<b>E31-Q</b>	<b>BORON; COMPOUND THEREOF - GENERAL</b> Three or more roll up.	
<b>E31-Q01</b>	<b>B element</b>	1986
<b>E31-Q02</b>	<b>B halide, hydride</b>	1986
<b>E31-Q03</b>	<b>B carbide, nitride, metal boride</b>	1986
<b>E31-Q04</b>	<b>B oxide</b>	1986
<b>E31-Q05</b>	<b>B acid</b>	1986
<b>E31-Q06</b>	<b>Alkali metal borate</b> Borate: from B-O acid.	1986
<b>E31-Q07</b>	<b>Other borate</b> Borate: from B-O acid.	1986
<b>E31-Q08</b>	<b>Other B compound</b> Borate: from B-O acid. BF <sub>4</sub> <sup>-</sup> is coded E31-Q02.	1986

<b>E31-U</b>	<b>INORGANIC NANOSTRUCTURES</b> Used in conjunction with E3* codes	2005
<b>E31-U01</b>	<b>Nanoparticles, nanospheres</b>	2006
<b>E31-U02</b>	<b>Nanotubes, nanorods, nanowires</b> Includes nanowhiskers.	2006
<b>E31-U03</b>	<b>Nanofilms</b> Includes nanobelt, nanoribbon, nanoplate.	2006
<b>E31-U04</b>	<b>Other nano-forms (e.g. nano-buds, nano-horns)</b> Includes nano-clusters and nano-capsules.	2011
<b>E31-V</b>	<b>QUANTUM DOTS OR QUANTUM CLUSTERS</b> Quantum dots are nanocrystals of a semiconducting material used mostly in LEDs and solid state lighting, displays and photovoltaic devices.	2014

## E32 AMMONIA, CYANOGEN AND COMPOUNDS

E32	General	
<b>E32-A</b>	<b>AMMONIA, OR AMMONIUM COMPOUND - GENERAL</b>	
<b>E32-A01</b>	<b>NH3 production</b>	1986
<b>E32-A02</b>	<b>NH3 use</b>	1986
<b>E32-A03</b>	<b>NH4+ compound production</b>	1986
<b>E32-A04</b>	<b>NH4+ compound use</b>	1986
<b>E32-A05</b>	<b>other compound</b>	1986
<b>E32-B</b>	<b>CYANOGEN AND DERIVATIVES</b> Includes all metal cyanides, (thio)cyanates and cyanamides. N.B. has priority over E33, 34, 35.	

## E33 ALKALI METAL COMPOUNDS

E33	General	
<b>E33-A</b>	<b>OXIDE OR HYDROXIDE OF SODIUM/POTASSIUM (NA/K) - GENERAL</b>	
<b>E33-A01</b>	<b>Sodium/potassium (Na/K) hydroxide production by electrical means</b>	1986
<b>E33-A02</b>	<b>Sodium/potassium (Na/K) hydroxide production by other means</b>	1986
<b>E33-A03</b>	<b>Sodium/potassium (Na/K) hydroxide use</b>	1986
<b>E33-A04</b>	<b>Sodium/potassium (Na/K) oxide</b>	1986
<b>E33-B</b>	<b>HALIDE OF SODIUM/POTASSIUM (NA/K)</b>	
<b>E33-C</b>	<b>SULFATE OR SULFITE OF SODIUM/POTASSIUM (NA/K)</b> Includes hydrogen sulfate/hydrogen sulfite.	
<b>E33-D</b>	<b>CARBONATE OF SODIUM/POTASSIUM (NA/K)</b> Includes hydrogencarbonate	
<b>E33-E</b>	<b>NITRATE OF SODIUM/POTASSIUM (NA/K)</b>	
<b>E33-F</b>	<b>OTHER COMPOUND OF SODIUM/POTASSIUM (NA/K)</b>	
<b>E33-G</b>	<b>LITHIUM (LI) COMPOUND</b>	
<b>E33-H</b>	<b>RUBIDIUM (RB) OR CESIUM (CS) COMPOUND</b>	
<b>E33-S</b>	<b>GENERAL SODIUM/POTASSIUM (NA/K) SALT</b> <i>Previous code(s) : E33-A</i>	2006

## E34 COMPOUNDS of Be, Mg, Al, Ca, Sr, Ba, Ra, Th, RARE EARTHS

E34 General

### E34-A BERYLLIUM (BE) COMPOUND

### E34-B MAGNESIUM (MG) COMPOUND-GENERAL

E34-B01 Magnesium (Mg) oxide 1986

E34-B02 Magnesium (Mg) hydroxide, carbonate, basic compound 1986

E34-B03 Magnesium (Mg) halide, sulfate 1986

E34-B04 Other magnesium (Mg) compound  
For sulfide (derivative) code E31-F+.  
1986

### E34-C ALUMINIUM (AL) COMPOUND - GENERAL

E34-C01 Aluminium (Al) (hydr)oxide production 1975

E34-C02 Aluminium (Al) (hydr)oxide use  
For alumina/silica see E31-P02.  
1975

E34-C03 others 1975

### E34-D CALCIUM (CA), STRONTIUM (SR) OR BARIUM (BA) COMPOUND - GENERAL

E34-D01 Calcium (Ca) (hydr)oxide 1975

E34-D02 Calcium (Ca) sulfate, halide  
Includes basic.  
1975

E34-D03 Other calcium (Ca) compounds; strontium (Sr) or barium (Ba) compounds  
For sulfide (derivative) code E31-F+.  
1975

E34-D03A . Calcium carbonate 2005

E34-D03B . Other calcium compounds 2005

E34-D03C . Strontium compounds 2005

E34-D03D . Barium compounds 2005

E34-D04 Calcium - general  
Applied only to vague references to inorganic calcium compounds.  
2011

### E34-E SC, Y, LANTHANOID, RA, OR TH COMPOUND

E34-E01 Scandium (Sc), yttrium (Y), lanthanum (La) 2006

E34-E02 Lanthanides - general 2006

E34-E02A . Cerium 2006

E34-E02B . Other Lanthanide compounds 2006

E34-E03 Radium (Ra), thorium (Th) 2006

## E35 COMPOUNDS OF OTHER METALS

E35	GENERAL	
E35-A	Copper (Cu) compound	
E35-B	Silver (Ag), gold (Au) compound	
E35-C	Zinc (Zn) compound - general	
E35-C01	. Zinc (hydr)oxide production	2006
E35-C02	. Zinc (hydr)oxide use	2006
E35-C03	. Zinc halide, sulfate	2006
E35-C04	. Other Zinc (Zn) compound	2006
E35-D	Cadmium (Cd) compound	
E35-E	Mercury (Hg) compound	
E35-F	Gallium (Ga), indium (In), thallium (Tl) compound	
E35-G	Germanium (Ge) compound	
E35-H	Tin (Sn) compound	
E35-J	Lead (Pb) compound	
E35-K	Titanium (Ti) compound - general	
E35-K01	. Titanium dioxide (TiO <sub>2</sub> ) production	1986
E35-K02	. Titanium dioxide (TiO <sub>2</sub> ) use	1986
E35-K03	. Titanium (Ti) halide, sulfate	1986
E35-K04	. other Titanium (Ti) compound	1986
E35-L	Zirconium (Zr), hafnium (Hf) compound	
E35-M	Bismuth (Bi) compound	
E35-N	Vanadium (V), niobium (Nb), tantalum (Ta) compound	
E35-P	Chromium (Cr) compound	
E35-Q	Molybdenum (Mo), tungsten (W) compound	
E35-R	Polonium (Po), uranium (U), trans-U compound	
E35-S	Manganese (Mn) compound	
E35-T	Rhenium (Re) compound	
E35-U	Iron (Fe) compound - general	
E35-U01	. Iron (Fe) oxide production Includes ferrite.	1986

E35-U02	. Iron (Fe) oxide use Includes ferrite.	1986
E35-U03	. Iron (Fe) hydroxide, mixed oxide-hydroxide	1986
E35-U04	. Iron (Fe) halide, sulfate	1986
E35-U05	. other Iron (Fe) compound	1986
E35-V	Cobalt (Co) compound	
E35-W	Nickel (Ni) compound	
E35-X	Rhodium (Rh), palladium (Pd), osmium (Os), iridium (Ir), platinum (Pt) compound	
E35-Y	Other metal compound (Tc, At, Fr, Ac, Pa)	

**F:**  
**TEXTILES, PAPER,**  
**CELLULOSE**

- F01 Natural/Synthetic  
Threads/Fibres
- F02 Fabrics and their Production
- F03 Treatment of Fabric Products
- F04 Textile Applications
- F05 Paper and Wood

**F: TEXTILES, PAPER, CELLULOSE**

Code commenced 197001.

**F01 NATURAL/SYNTHETIC THREADS/FIBRES**

<b>F01-A</b>	<b>MECHANICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FIBRES OR FILAMENTS</b>	
<b>F01-A01</b>	<b>Of animal fibres</b> Including cocoon handling and unwinding.	
<b>F01-A02</b>	<b>Of vegetable fibres</b> Including scutching, ginning.	
<b>F01-A03</b>	<b>Of mineral fibres</b> Prior to 1971 no specific code was available.	1971
<b>F01-B</b>	<b>CHEMICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FILAMENTS OR FIBRES FOR SPINNING</b>	
<b>F01-B01</b>	<b>Of animal fibres</b> Including carbonising rags to recover fibres.	
<b>F01-B02</b>	<b>Of vegetable fibres</b> Including retting.	
<b>F01-C</b>	<b>MECHANICAL METHODS AND EQUIPMENT IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS</b>	
<b>F01-C01</b>	<b>Equipment</b> Including spinnerettes, die plates, manifolds and distributors, pumps.	
<b>F01-C02</b>	<b>Dry spinning (evaporative)</b>	1970-1993
<b>F01-C03</b>	<b>Melt spinning</b>	1970-1993
<b>F01-C04</b>	<b>Wet spinning (coagulative)</b>	1970-1993
<b>F01-C05</b>	<b>Fibrillation</b>	
<b>F01-C06</b>	<b>Drawing</b> Including draw texturing (with F01-H04+). Prior to 1971 see F01-C.	1971

<b>F01-C07</b>	<b>Other fibre production (other than by spinning or fibrillation)</b> Including emulsion spinning, centrifugal spinning, flash extrusion of plexifilaments and glass fibre production. Prior to 1971 see F01-C.	1972
<b>F01-C07A</b>	<b>. Melt blowing</b> <i>Previous code(s): F01-C07</i>	1994
<b>F01-C07B</b>	<b>. Flash extrusion</b> <i>Previous code(s): F01-C07</i>	1994
<b>F01-C07C</b>	<b>. Fibrid production</b> <i>Previous code(s): F01-C07</i>	1994
<b>F01-C07D</b>	<b>. Synthetic pulp production</b> <i>Previous code(s): F01-C07</i>	1994
<b>F01-C07E</b>	<b>. Glass fibre production</b> <i>Previous code(s): F01-C07</i>	1994
<b>F01-C08</b>	<b>Spinning general</b> <i>Previous code(s): F01-C+</i>	1994
<b>F01-C08A</b>	<b>. Dry spinning</b> <i>Previous code(s): F01-C02</i>	1994
<b>F01-C08B</b>	<b>. Melt spinning</b> <i>Previous code(s): F01-C03</i>	1994
<b>F01-C08B1</b>	<b>.. High speed</b> <i>Previous code(s): F01-C03</i>	1994
<b>F01-C08C</b>	<b>. Wet spinning (coagulative)</b> Includes Dry-Wet spinning. <i>Previous code(s): F01-C04</i>	1994
<b>F01-C</b>	<b>Others</b> e.g. cooling, quenching, freezing, annealing of extruded filaments.	
<b>F01-D</b>	<b>CHEMICAL FEATURES IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS</b> Including polymer production or chemical modification; chemical structure of polymers and additives used in bulk of polymer.	
<b>F01-D01</b>	<b>Cellulose ester fibres</b> e.g. cellulose (di-,tri-) acetate.	
<b>F01-D02</b>	<b>Acrylic and modacrylic fibres</b> i.e. acrylonitrile or methacrylonitrile (co)polymers. For acrylic ester polymers see F01-D08.	



<b>F01-D03</b>	<b>Polyamide fibres, nylons</b> Including nylon 6 (poly-caproamide); nylon 6:6; aromatic polyamides (aramids); polyesteramides (with F01-D04).		
<b>F01-D03A</b>	. <b>Wholly aliphatic polyamides</b> <i>Previous code(s): F01-D03</i>	1994	
<b>F01-D03B</b>	. <b>Aromatic polyamides</b> Includes aromatic polyamides containing aliphatic groups. <i>Previous code(s): F01-D03</i>	1994	
<b>F01-D04</b>	<b>Polyester, polycarbonate fibres</b> Including polybutylene terephthalate (PBT); linear polyesters; polyesteramides (with F01-D03); polyetheresters (with F01-D10). For polyethylene terephthalate see F01-D04A.		
<b>F01-D04A</b>	. <b>Polyethylene terephthalate (PET)</b> <i>Previous code(s): F01-D04</i>	1994	
<b>F01-D05</b>	<b>Polyolefin fibres</b> Including polyethylene, polypropylene.		
<b>F01-D06</b>	<b>Regenerated cellulose, rayon, polynosic fibres</b>		
<b>F01-D06A</b>	. <b>By viscose process</b> <i>Previous code(s): F01-D06</i>	1994	
<b>F01-D06B</b>	. <b>By cuprammonium process</b> <i>Previous code(s): F1-D06</i>	1994	
<b>F01-D06C</b>	. <b>By other specific process</b> <i>Previous code(s): F01-D06</i>	1994	
<b>F01-D07</b>	<b>Polyurethane fibres</b> e.g. Spandex, Lycra®.		
<b>F01-D08</b>	<b>Vinyl fibres</b> Including polyvinyl chloride (PVC), polyvinyl alcohol; excluding fluorine containing resins for which see F01-D10.		
<b>F01-D09</b>	<b>Inorganic and metallic; asbestos</b>		
<b>F01-D09A</b>	. <b>Carbon; graphite fibres</b> To be searched for the production of these fibres.	1971	
<b>F01-D09A1</b>	.. <b>Derived from pitch</b> <i>Previous code(s): F01-D09A</i>	1994	
<b>F01-D09A2</b>	.. <b>Derived from polyacrylonitrile (co)polymers</b>	1994	
<b>F01-D09A3</b>	.. <b>Derived from other specific precursor(s)</b> <i>Previous code(s): F01-D09A</i>	1994	
<b>F01-D09B</b>	. <b>Glass fibres</b> Prior to 1970 see F01-D09	1971	
<b>F01-D10</b>	<b>Other fibres</b> Including fluorocarbon, phenoplast, proteinaceous.		
<b>F01-D</b>	<b>Chemical features in general</b> e.g. additions to spinning solutions or melts.		
<b>F01-E</b>	<b>PHYSICAL CHARACTERISTICS OF FIBRES</b>		
<b>F01-E01</b>	<b>Conjugate, general</b> Including sea-island, side-by-side, sheath-core.		
<b>F01-E01A</b>	. <b>Crimped conjugate</b> Prior to 1970 see F01-E01.	1972	
<b>F01-E02</b>	<b>Non-circular, tapered</b> Including trilobal, lobed, thick and thin (variable denier) and plexifilaments.		
<b>F01-E03</b>	<b>Hollow</b>		
<b>F01-E04</b>	<b>Textured</b> Excluding F01-E01A; e.g. crimped, bulked.		
<b>F01-E05</b>	<b>Monofilament</b> <i>Previous code(s): F01-E</i>	1994	
<b>F01-E06</b>	<b>Microdenier yarns</b> <i>Previous code(s): F01-E</i>	1994	
<b>F01-E07</b>	<b>Mixed filament yarns</b> Core-sheath yarns. <i>Previous code(s): F01-E</i>	1994	
<b>F01-E08</b>	<b>Variable denier yarns</b> <i>Previous code(s): F01-E</i>	1994	
<b>F01-E09</b>	<b>Staple yarn/fibres</b> <i>Previous code(s): F01-E</i>	1994	
<b>F01-E09A</b>	. <b>Fibrefill (batts, fibreballs, clusters)</b> <i>Previous code(s): F01-E</i>	1994	
<b>F01-E</b>	<b>Others</b> Including slub yarn, knop yarn, nub yarn, sewing threads (with F02-F01). For spandex see F01-D07.		

<b>F01-F</b>	<b>PRELIMINARY TREATMENT OF FIBRES</b> e.g. for spinning.		<b>F01-H03B</b>	<b>. Break detection, end joining, length metering</b> e.g. knotting, splicing. Prior to 1971 see F01-H03.	<b>1971</b>
<b>F01-F01</b>	<b>Carding, combing, hackling</b> Prior to 1971 see F01-F.	<b>1971</b>	<b>F01-H03C</b>	<b>. Bobbin and cop handling</b> e.g. doffing, donning, aligning, transporting. Prior to 1971 see F01-H03.	<b>1971</b>
<b>F01-F02</b>	<b>Drafting, sliver drawing</b> Prior to 1971 see F01-F.	<b>1971</b>	<b>F01-H03D</b>	<b>. Package formation, winding, coiling</b> Prior to 1972 see F01-H03.	<b>1972</b>
<b>F01-F03</b>	<b>Opening, bale breaking</b> Prior to 1972 see F01-F.	<b>1972</b>	<b>F01-H03D1</b>	<b>.. Transfer tails</b> <i>Previous code(s): F01-H03D</i>	<b>1994</b>
<b>F01-F04</b>	<b>Feeding of slivers</b> <i>Previous code(s): F01-F</i>	<b>1994</b>	<b>F01-H03D2</b>	<b>.. Thread traversing guides</b> <i>Previous code(s): F01-H03D</i>	<b>1994</b>
<b>F01-F</b>	<b>Other preliminary treatment</b> e.g. blending, stapling.		<b>F01-H03E</b>	<b>. Waste removal from cores</b> <i>Previous code(s): F01-H03</i>	<b>1994</b>
<b>F01-G</b>	<b>SPINNING PROCESSES AND EQUIPMENT</b>		<b>F01-H04</b>	<b>Crimping, curling, texturing, bulking</b>	
<b>F01-G00G</b>	<b>General spinning and equipment</b> Indexed for generic and unspecified cases. <i>Previous code(s): F01-G</i>	<b>1994</b>	<b>F01-H04A</b>	<b>. Stuffer-box crimping</b>	
<b>F01-G01</b>	<b>Ring spinning</b>		<b>F01-H04B</b>	<b>. False twisting</b>	
<b>F01-G02</b>	<b>Ringless spinning</b> e.g. flyer, cap, mule.		<b>F01-H04C</b>	<b>. Other crimping or curling</b> e.g. knit-deknit (with F02-B03+); gear wheel processes.	
<b>F01-G03</b>	<b>Converter processing</b>		<b>F01-H04C1</b>	<b>.. Yarns textured by drawing only</b> <i>Previous code(s): F01-H04C</i>	<b>1994</b>
<b>F01-G04</b>	<b>Automated spinning systems</b>		<b>F01-H04C2</b>	<b>.. Jet crimping</b> <i>Previous code(s): F01-H04C</i>	<b>1994</b>
<b>F01-G05</b>	<b>Open-end spinning, break spinning</b> Prior to 1972 see F01-G.	<b>1972</b>	<b>F01-H05</b>	<b>Heat treatment, setting, conditioning, shrinking, relaxing, annealing</b> Including crimp development with heating (with F01-H04+).	
<b>F01-G</b>	<b>Others</b> Including electrostatic.		<b>F01-H06</b>	<b>Finishing or dressing of fibres, general</b> Including lubrication, spin finishes.	
<b>F01-H</b>	<b>MECHANICAL FINISHING OF FIBRES, FILAMENTS, THREADS, YARNS OR ROPES</b>		<b>F01-H06A</b>	<b>. Sizing of fibres</b> Prior to 1972 see F01-H06.	<b>1972</b>
<b>F01-H01</b>	<b>Twisting, false twisting, plying, cabling, doubling, stranding</b> Including in production of ropes and cables.		<b>F01-H06B</b>	<b>. Increasing adhesion of fibres to bulk materials</b> e.g. resins, concrete. Prior to 1986 see F01-H06 in conjunction with F03-D.	<b>1986</b>
<b>F01-H02</b>	<b>Entangling, intermingling, interlacing, differential turbulence and other 'zero twist' processes</b> e.g. air jet.				
<b>F01-H03</b>	<b>Winding, reeling, packaging</b>				
<b>F01-H03A</b>	<b>. Bobbins, sleeves, tubes, cops, cartons</b> Prior to 1971 see F01-H03.	<b>1971</b>			

<b>F01-H07</b>	<b>Thread guides</b>	1994
	<i>Previous code(s): F01-H03</i>	
<b>F01-H08</b>	<b>Tension devices</b>	1994
	<i>Previous code(s): F01-H</i>	
<b>F01-H09</b>	<b>Yarn cleaners</b>	1994
	<i>Previous code(s): F01-H</i>	
<b>F01-H</b>	<b>Others</b>	
	Including testing and identification of fibres and filaments.	
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<b>F01-J</b>	<b>OTHER FIBROUS FORMS</b>	1994
<b>F01-J01</b>	<b>Fibrids</b>	1994
<b>F01-J02</b>	<b>Synthetic pulps</b>	1994
<b>F01-J</b>	<b>Other fibrous forms</b>	1994

## F02 FABRICS AND THEIR PRODUCTION

<b>F02-A</b>	<b>WEAVING</b>	
<b>F02-A01</b>	<b>Warping, beaming, leasing, let-off</b>	
<b>F02-A02</b>	<b>Shedding mechanisms; patterns (cards, designing); dobby, jacquard systems, healds, heddles</b>	
<b>F02-A03</b>	<b>Woven fabrics</b>	
<b>F02-A03A</b>	. <b>Of specified application</b>	
	Including carpets. Prior to 1972 see F02-A03.	1972
<b>F02-A04</b>	<b>Methods of weaving, looms</b>	
<b>F02-A04A</b>	. <b>Conventional</b>	
<b>F02-A04B</b>	. <b>Shuttleless</b>	
	e.g. water jet, air jet, rapier, weft gripper looms.	
<b>F02-A05</b>	<b>Auxiliary weaving apparatus, weavers' tools, shuttles</b>	
	Prior to 1971 see F02-A04.	1971
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<b>F02-B</b>	<b>KNITTING</b>	
<b>F02-B01</b>	<b>Patterns (cards, designing); control mechanisms</b>	
<b>F02-B02</b>	<b>Knit fabrics</b>	
	Including throw rugs.	
<b>F02-B03</b>	<b>Methods of knitting; knitting machines</b>	
<b>F02-B03A</b>	. <b>Warp knitting</b>	
<b>F02-B03B</b>	. <b>Weft knitting</b>	
<b>F02-B04</b>	<b>Accessories for knitting machines</b>	
	Including feed devices, take-off devices. Prior to 1971 see F02-B03.	1971
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<b>F02-C</b>	<b>NON-WOVEN FABRICS</b>	
<b>F02-C01</b>	<b>Non-woven fabrics, felts, blankets, battings, waddings, stuffings</b>	
<b>F02-C01A</b>	. <b>Non-woven pile fabrics</b>	1994
	<i>Previous code(s): F02-C01</i>	
<b>F02-C01B1</b>	.. <b>Self-bonded non-woven fabrics</b>	1994
	<i>Previous code(s): F02-C01</i>	

<b>F02-C01B2</b>	<b>.. Self-bonded non-woven fabrics where the binder is of the same composition as the fibre</b> 1994 <i>Previous code(s): F02-C01</i>	<b>F02-F01A1</b>	<b>.. Sewing fasteners</b> Including slide fasteners, button (holes). Prior to 1986 see F02-F01A. 1986
<b>F02-C01C</b>	<b>. Adhesive bonded non-woven fabric using adhesives or binders</b> 2005	<b>F02-F01B</b>	<b>. Sewing accessories, general</b> Prior to 1972 see F02-F01. 1972
<b>F02-C02</b>	<b>Methods of manufacture; machinery, general</b> Including wet laying; dry laying; spin bonding (with F01-C+).	<b>F02-F01B1</b>	<b>.. Control devices, programs, microcomputers</b> Prior to 1986 see F02-F01B. 1986
<b>F02-C02A</b>	<b>. Stitch-bonding</b>	<b>F02-F01B2</b>	<b>.. Feed or removal of cloth or work-pieces, trimming, cutting of threads</b> Prior to 1986 see F02-F01B. 1986
<b>F02-C02B</b>	<b>. Bonding of fibrous webs</b>	<b>F02-F02</b>	<b>Embroidering</b>
<b>F02-C02B1</b>	<b>.. Using an adhesive</b> Prior to 1972 see F02-C02B. 1972	<b>F02-G</b>	<b>PHYSICAL CHARACTERISTICS OF FABRICS</b> 1994
<b>F02-C02C</b>	<b>. Felting</b>	<b>F02-G01</b>	<b>General</b> 1994
<b>F02-C02D</b>	<b>. Needling, punching</b>	<b>F02-G02</b>	<b>Crepe fabrics</b> 1994
<b>F02-C02E</b>	<b>. Wet laying</b> 2005	<b>F02-G03</b>	<b>Pile fabrics</b> See also non-woven pile fabrics F02-C01A. 1994
<b>F02-C02F</b>	<b>. Spunlacing, hydroentangling</b> 2005	<b>F02-G04</b>	<b>Stretch fabrics</b> 1994
<b>F02-C02G</b>	<b>. Air laying</b> 2005	<b>F02-G04A</b>	<b>. Due to fibres</b> 1994
<b>F02-D</b>	<b>TUFTING AND TUFTED PRODUCTS</b>	<b>F02-G04B</b>	<b>. Due to fabric structure</b> 1994
<b>F02-D</b>	<b>Tufting and tufted products</b> Including carpets.	<b>F02-G</b>	<b>Physical characteristics of fabrics, other</b> 1994
<b>F02-E</b>	<b>BRAIDING, LACE, TRIMMINGS, NETS</b>		
<b>F02-E01</b>	<b>Braiding, plaiting and manufacture of lace including bobbin; net or carbonised lace; braiding machines; braid lace</b>		
<b>F02-E02</b>	<b>Trimmings; ribbons (including typewriter and computer), tapes, bands, narrow fabric; other webbing</b>		
<b>F02-E03</b>	<b>Making nets; making knotted carpets or tapestries; macrame; other knotting</b>		
<b>F02-F</b>	<b>SEWING, EMBROIDERING</b>		
<b>F02-F01</b>	<b>Sewing, general</b> Including sewing threads (with F01-E).		
<b>F02-F01A</b>	<b>. Sewing specific goods, general</b> Prior to 1971 see F02-F01. 1971		

## F03 TREATMENT OF FABRIC PRODUCTS

<b>F03-A</b>	<b>MECHANICAL TREATMENT</b>
<b>F03-A01</b>	<b>Calendering, pleating, forming</b>
<b>F03-A02</b>	<b>Stretching, drying, setting, decatising, stentering, tentering, mechanical shrinkproofing and stabilisation, relaxing</b>
<b>F03-A</b>	<b>Other</b> e.g. shearing, napping, raising, singeing.
<b>F03-B</b>	<b>BLEACHING AND BLEACHING AGENTS; SCOURING, DESIZING, MERCERISING, OPTICAL BLEACHING</b>
<b>F03-B01</b>	<b>Bleaching, optical bleaching</b>
<b>F03-B</b>	<b>Other</b>
<b>F03-C</b>	<b>CHEMICAL TREATMENT</b>
<b>F03-C01</b>	<b>Equipment</b>
<b>F03-C02</b>	<b>Repellents and retardants, general</b> Including oil and soil.
<b>F03-C02A</b>	<b>. Water proofing, rain proofing, hydrophobisation</b> Prior to 1972 see F03-C02. <span style="float: right;">1972</span>
<b>F03-C02B</b>	<b>. Biological repellents</b> e.g. bactericides, germicides, insecticides, rot proofing. Prior to 1972 see F03-C02. <span style="float: right;">1972</span>
<b>F03-C03</b>	<b>Flame proofing; fire retardants; melt proofing</b>
<b>F03-C03A</b>	<b>. Phosphorus containing material</b> Prior to 1977 see F03-C03. <span style="float: right;">1977</span>
<b>F03-C03B</b>	<b>. Antimony containing material</b> Prior to 1977 see F03-C03. <span style="float: right;">1977</span>
<b>F03-C03C</b>	<b>. Material containing halogen</b> Prior to 1977 see F03-C03. <span style="float: right;">1977</span>
<b>F03-C04</b>	<b>Durable press, wash-wear, crease-proofing, anti-pilling, shrinkproofing, dimensional stabilisation using resins or additives</b>
<b>F03-C05</b>	<b>Antistats, softeners, surfactants, processing aids, hygroscopic treatments</b>

<b>F03-C06</b>	<b>To improve dye receptiveness</b> Prior to 1977 see F03-C. <span style="float: right;">1977</span>
<b>F03-C07</b>	<b>To improve resistance of textiles to ageing</b> e.g. by air, light and heat. Prior to 1977 see F03-C. <span style="float: right;">1977</span>
<b>F03-C08</b>	<b>Dissolving/degrading fibres to remove them or to improve properties such as drape</b> e.g. (partial) hydrolysis of polyester fibres with alkali. Prior to 1986 see F03-C in conjunction with F03-A. <span style="float: right;">1986</span>
<b>F03-C09</b>	<b>Odorants, deodorants</b> <span style="float: right;">2005</span>
<b>F03-C</b>	<b>Others</b>
<b>F03-D</b>	<b>LAMINATING AND COMPOSITES</b>
<b>F03-D01</b>	<b>Adhesive laminating</b>
<b>F03-D02</b>	<b>Flame laminating</b>
<b>F03-D03</b>	<b>Other laminating</b> Including flocking. Prior to 1971 see F03-D. <span style="float: right;">1971</span>
<b>F03-D04</b>	<b>Fabric structures designed for reinforcement of solid materials</b> Such as plastics, concrete, metal. Prior to 1986 see F03-D. <span style="float: right;">1986</span>
<b>F03-D</b>	<b>Composites; reinforced materials, general</b>
<b>F03-E</b>	<b>TREATMENT NOT COVERED ELSEWHERE</b>
<b>F03-E01</b>	<b>By coating</b> Prior to 1972 see F03-E. <span style="float: right;">1972</span>
<b>F03-E02</b>	<b>Recycling, recovery</b> <span style="float: right;">1994</span> <i>Previous code(s): F03-E</i>
<b>F03-E</b>	<b>Others</b> Including waste-water, recovering textile materials.
<b>F03-F</b>	<b>DYEING AND/OR PRINTING</b> Formerly: Dyes and dyeing textiles etc.
<b>F03-F</b>	<b>General dyeing processes</b> Applied from the start of CPI (1970) to the end of 1985 and was discontinued. From the start of 1986 see F03-F33. <span style="float: right;">1970-1985</span>
<b>F03-F01</b>	<b>Equipment</b>

<b>F03-F02</b>	<b>Animal substrates</b> e.g. silk, wool. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F10</b>	<b>Polyurethane</b> e.g. spandex. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
<b>F03-F03</b>	<b>Vegetable substrates</b> e.g. cotton, linen. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F11</b>	<b>Vinyl</b> e.g. PVC, PVA. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
<b>F03-F04</b>	<b>Cellulose esters</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F12</b>	<b>Inorganic and metallic</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
<b>F03-F05</b>	<b>Acrylic and modacrylic</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F13</b>	<b>Solvent dyeing, general</b> Prior to 1971 no specific code was available; see codes for appropriate substrate. <b>1971</b>
<b>F03-F06</b>	<b>Polyamide or Nylon</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F13A</b>	<b>. Of cotton, regenerated cellulose</b> Prior to 1971 no specific code was available; see codes for appropriate substrate. <b>1971</b>
<b>F03-F06A</b>	<b>. Azo dyes, water soluble</b> Prior to 1977 see F03-F06. <b>1977</b>	<b>F03-F13B</b>	<b>. Of other substrates</b> Prior to 1971 no specific code was available; see codes for appropriate substrate. <b>1971</b>
<b>F03-F06B</b>	<b>. Azo dyes, water insoluble</b> Prior to 1977 see F03-F06. <b>1977</b>	<b>F03-F14</b>	<b>After treatment of coloured substrates</b> Prior to 1972 no specific code was available. <b>1972</b>
<b>F03-F06C</b>	<b>. Anthraquinone dyes</b> Prior to 1977 see F03-F06. <b>1977</b>	<b>F03-F15</b>	<b>Other substrates</b> Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. <b>1972</b>
<b>F03-F07</b>	<b>Polyester</b> Including polycarbonate. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	<b>F03-F16</b>	<b>Dyes of general application</b> Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. <b>1972</b>
<b>F03-F07A</b>	<b>. Azo dyes, water soluble</b> Prior to 1977 see F03-F07. <b>1977</b>	<b>F03-F16A</b>	<b>. Azo dyes, water soluble</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. <b>1977</b>
<b>F03-F07B</b>	<b>. Azo dyes, water insoluble</b> Prior to 1977 see F03-F07. <b>1977</b>		
<b>F03-F07C</b>	<b>. Anthraquinone dyes</b> Prior to 1977 see F03-F07. <b>1977</b>		
<b>F03-F08</b>	<b>Polyolefin</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.		
<b>F03-F09</b>	<b>Regenerated cellulose</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.		

<b>F03-F16B</b>	<ul style="list-style-type: none"> <li>• <b>Azo dyes, water insoluble</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. <b>1977</b></li> </ul>	<b>F03-F24</b>	<p><b>With sulfur dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>
<b>F03-F16C</b>	<ul style="list-style-type: none"> <li>• <b>Anthraquinone dyes</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. <b>1977</b></li> </ul>	<b>F03-F25</b>	<p><b>With metal complex dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>
<b>F03-F17</b>	<p><b>With pigments and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F26</b>	<p><b>Dyeing/printing using compositions in the form of foams</b> Prior to 1986 see F03-F or F03-G. <b>1986</b></p>
<b>F03-F18</b>	<p><b>With disperse dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F27</b>	<p><b>Transfer dyeing/printing; sublimation printing</b> Including decalcomanias. Prior to 1986 see F03-G. <b>1986</b></p>
<b>F03-F19</b>	<p><b>With reactive dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F28</b>	<p><b>Discharge or resist dyeing/printing</b> Prior to 1986 see F03-G. <b>1986</b></p>
<b>F03-F20</b>	<p><b>With direct dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F29</b>	<p><b>Cop dyeing, cheese dyeing, warp dyeing or printing</b> Prior to 1986 see F03-F or F03-G. <b>1986</b></p>
<b>F03-F21</b>	<p><b>With anionic/acid dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F30</b>	<p><b>Spin dyeing or bulk dyeing before fibre formation</b> Prior to 1986 see the appropriate substrate code from F03-F+ in conjunction with the appropriate code F01-D+. <b>1986</b></p>
<b>F03-F22</b>	<p><b>With cationic/basic dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F31</b>	<p><b>Other specific dyeing/printing processes</b> Prior to 1986 see F03-F or F03-G. <b>1986</b></p>
<b>F03-F23</b>	<p><b>With vat/leuco dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate. <b>1986</b></p>	<b>F03-F32</b>	<p><b>Dyeing auxiliaries</b> Excluding dye receptiveness improving agents for which see F03-C06; solvents, dyes. Prior to 1986 no specific code was available. <b>1986</b></p>
		<b>F03-F33</b>	<p><b>General dyeing/printing</b> Prior to 1986 see F03-F or F03-G. <b>1986</b></p>

<b>F03-G</b>	<b>PRINTING</b>	
<b>F03-G</b>	<b>Printing</b> Applied from the start of CPI (1970) to the end of 1985 and was discontinued. From the start of 1986 see F03-F+.	1970-1985
<b>F03-H</b>	<b>DECORATING TEXTILES, QUILTING</b>	
<b>F03-H</b>	<b>Decorating textiles; quilting</b> Including metallising.	
<b>F03-J</b>	<b>LAUNDERING, DRY CLEANING</b>	
<b>F03-J01</b>	<b>Washing machines</b> Including (spin)driers. Prior to 1977 see F03-J.	1977
<b>F03-J02</b>	<b>Ironing; smoothing</b> Prior to 1977 see F03-J.	1977
<b>F03-J03</b>	<b>Laundry compositions</b> e.g. detergents. Prior to 1977 see F03-J.	1977
<b>F03-J04</b>	<b>Dry cleaning</b> Prior to 1977 see F03-J.	1977
<b>F03-J</b>	<b>General</b>	
<b>F03-K</b>	<b>OTHER PROCESSES AND EQUIPMENT</b>	
<b>F03-K01</b>	<b>Web handling, rolling, laying, widening</b> Prior to 1971 see F03-K.	1971
<b>F03-K02</b>	<b>Analysis, inspection, testing, identification</b> Prior to 1971 see F03-K.	1971
<b>F03-K03</b>	<b>Cutting, severing</b>  <i>Previous code(s): F03-K</i>	1994
<b>F03-K</b>	<b>Others</b> Including marketing, joining fabric lengths, general air conditioning of textile factories.	

## F04 TEXTILE APPLICATIONS

<b>F04-A</b>	<b>ROPES, CABLES</b>	
<b>F04-A</b>	<b>Ropes, cables</b> Including metal wires.	
<b>F04-B</b>	<b>ARTIFICIAL LEATHER, WALL, FLOOR COVERING</b>	
<b>F04-B01</b>	<b>Artificial leather, oil cloth, suede</b>	
<b>F04-B01A</b>	. <b>With polyurethane</b>	
<b>F04-B01B</b>	. <b>With polyvinyl chloride</b>	
<b>F04-B02</b>	<b>Roofing felt, linoleum, (vinyl) floor covering</b>	
<b>F04-B03</b>	<b>Artificial fur</b> Prior to 1986 see F04-B in conjunction with F04-C and F04-D.	1986
<b>F04-B</b>	<b>Other flexible sheet material</b> Including tarpaulins.	
<b>F04-C</b>	<b>WEARING APPAREL</b>	
<b>F04-C01</b>	<b>Underwear; baby linen (including diapers); handkerchiefs; foundation garments; pantyhose and tights</b> With F04-C02.	
<b>F04-C01A</b>	. <b>Baby linen</b> Including diapers and baby training pants.	2005
<b>F04-C02</b>	<b>Hosiery, socks, stockings, pantyhose and tights</b> With F04-C01.	
<b>F04-C03</b>	<b>Outerwear</b> Including coats, jackets, shirts, skirts, dresses, jumpers.	
<b>F04-C04</b>	<b>Garment fastenings, suspenders, slide fasteners, buttons and button holes, belts</b>	
<b>F04-C05</b>	<b>Accessories</b> e.g. hats, footwear.	
<b>F04-C05A</b>	. <b>Footwear</b>	2005
<b>F04-C06</b>	<b>Protective clothing</b>  <i>Previous code(s): F04-C+</i>	1994
<b>F04-C</b>	<b>General</b> Including garment linings and interlinings. Prior to 1971 no specific code was available.	1971



<b>F04-D</b>	<b>HOME FURNISHINGS</b>	
<b>F04-D01</b>	<b>Sheets, blankets, bed linen</b>	
<b>F04-D02</b>	<b>Table linen, tablecloths</b>	
<b>F04-D03</b>	<b>Draperies and upholstery, curtains</b>	
<b>F04-D04</b>	<b>Carpets</b>	1994
	<i>Previous code(s): F04-D</i>	
<b>F04-D</b>	<b>Home furnishings, general</b> Including towels. Prior to 1971 no specific code was available.	1971
<b>F04-E</b>	<b>INDUSTRIAL FABRICS AND PRODUCTS</b>	
<b>F04-E01</b>	<b>Tyre cord, chafer fabric</b>	
<b>F04-E02</b>	<b>Military</b> Including parachutes, camouflage.	
<b>F04-E03</b>	<b>Automotive</b> Including seats, upholstery.	
<b>F04-E03A</b>	<b>. Airbags</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E03B</b>	<b>. Safety belts</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E03C</b>	<b>. Seats, upholstery</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E04</b>	<b>Surgical and medical products</b> Including prostheses, sutures, dialysis, bandages, dressings.	
<b>F04-E05</b>	<b>Filter material, general</b> Including cigarette filters. Prior to 1971 see F04-E.	1971
<b>F04-E05A</b>	<b>. Paper making machine felts, belts, Fourdrinier wires</b> Prior to 1986 see F04-E05.	1986
<b>F04-E06</b>	<b>Thermal and acoustic insulation</b> Prior to 1972 see F04-E.	1972
<b>F04-E07</b>	<b>Belts</b> Prior to 1972 see F04-E.	1972
<b>F04-E</b>	<b>Others</b> Including hose and ion-exchange fibres.	
<b>F04-F</b>	<b>FABRICATION OF FABRIC PRODUCTS</b>	
<b>F04-F01</b>	<b>Cutting fabric and other processes in making clothes</b> Including hats, slide fasteners, button holes.	
<b>F04-F02</b>	<b>Manufacturing footwear</b>	
<b>F04-F03</b>	<b>Manufacturing other fabric products</b>	
<b>F04-F04</b>	<b>Labelling, packaging</b>	
<b>F04-G</b>	<b>PRODUCTS MADE OF FIBRES OTHER THAN FABRICS</b>	
<b>F04-G01</b>	<b>Optical fibres, cables</b> For structures of fibres see F01-E01. Prior to 1986 see F04-G in conjunction with F01-E01.	1986
<b>F04-G</b>	<b>Others</b> Including brushes, fishing lines, edible products, gut for racquets, artificial seaweed for preventing erosion. Prior to 1971 no specific code was available.	1971

**F05 PAPER AND WOOD**

<b>F05-A</b>	<b>PAPER MAKING, CELLULOSE, FIBRE-BOARD</b>	
<b>F05-A01</b>	<b>Fibrous raw material (and mechanical treatment)</b>	
<b>F05-A02</b>	<b>Production of cellulose by removing non-cellulosic substances</b>	
<b>F05-A02A</b>	. <b>Pretreatment before digesting; pulping</b> Prior to 1971 see F05-A02.	1971
<b>F05-A02B</b>	. <b>Pulp after-treatment, working up waste paper, other processes, bleaching of pulp</b> Prior to 1971 see F05-A02.	1971
<b>F05-A02C</b>	. <b>Regeneration of pulp liquors, use of residues, treatment of waste water</b> Prior to 1971 see F05-A02.	1971
<b>F05-A03</b>	<b>Treatment of digested materials before passing to the paper-making machine; adding substances to the web on the machine</b> Including methods of beating; mechanical purification, screening.	
<b>F05-A04</b>	<b>Paper-making and machines</b>	
<b>F05-A04A</b>	. <b>Wet end of machines, general</b> Including head boxes. Prior to 1971 see F05-A04.	1971
<b>F05-A04B</b>	. <b>Wet end, dewatering</b> Prior to 1971 see F05-A04.	1971
<b>F05-A04C</b>	. <b>Transfer wet to press, press section, drier section, other machine details</b> Prior to 1971 see F05-A04.	1971
<b>F05-A04D</b>	. <b>Complete machines, processes for making paper, cardboard</b> e.g. corrugated, blotting. Prior to 1971 see F05-A04.	1971
<b>F05-A04E</b>	. <b>Sterilization and cleaning of equipment</b> Including general air conditioning of paper factories, dust removal etc.	2005

<b>F05-A05</b>	<b>Calenders, doctors, accessories for paper making machines; testing paper; winding up paper</b>	
<b>F05-A05A</b>	. <b>Testing paper</b> Including equipment.	2005
<b>F05-A05B</b>	. <b>Embossing, stamping and forming</b> Including equipment.	2005
<b>F05-A06</b>	<b>Cardboard, paper manufacture not covered elsewhere; paper compositions and auxiliary materials; special paper or cardboard types</b> Including those prepared from basically non-cellulosic compositions	
<b>F05-A06A</b>	. <b>Multiply materials</b> Including corrugated cardboard. Prior to 1971 see F05-A06.	1971
<b>F05-A06A1</b>	.. <b>Corrugated cardboard/paper</b>	2005
<b>F05-A06A2</b>	.. <b>Multiply tissue and wipes</b>	2005
<b>F05-A06B</b>	. <b>Paper, cardboard by applying coatings</b> Including adhesives and surface sizing. Prior to 1971 see F05-A06.	1971
<b>F05-A06C</b>	. <b>Paper, cardboard by adding polymers, resins</b> Prior to 1971 see F05-A06.	1971
<b>F05-A06D</b>	. <b>Paper, cardboard by adding (in)organic compounds</b> Including dyes and optical brighteners. Prior to 1971 see F05-A06.	1971
<b>F05-A06E</b>	. <b>Cardboard or paper prepared from basically non-cellulosic compositions</b> Prior to 1986 see F05-A06.	1986
<b>F05-A07</b>	<b>Fibreboard, chipboard, manufacture of articles from fibrous cellulosic suspensions or papier-mache</b> e.g. disposable diapers.	

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<b>F05-B</b>	<b>PRESERVATION AND TREATMENT OF WOOD</b>	
<b>F05-B01</b>	<b>Preservation</b> Including fungicide, insecticide, germicide. Prior to 1971 no specific code was available.	<b>1971</b>
<b>F05-B</b>	<b>Plywood; other treatment</b> Including staining, dyeing, bleaching, drying, flame proofing. Prior to 1971 no specific code was available.	<b>1971</b>

**G:  
PRINTING, COATING,  
PHOTOGRAPHIC**

- G01 Non-fibrous Inorganic  
Pigments, Fillers
- G02 Coatings, Paints, Inks, Natural  
Resins, Polishes
- G03 Adhesives
- G04 Miscellaneous Compositions  
and Applications
- G05 Printing
- G06 Photographic Materials and  
Processes

## G: PRINTING, COATING, PHOTOGRAPHIC

Code commenced 197001.

### G01 NON-FIBROUS INORGANIC PIGMENTS, FILLERS

<b>G01-A</b>	<b>PREPARATION, TREATMENT OR COMPOSITIONS OF SPECIFIC PIGMENTS, FILLERS</b> When a pigment or filler contains more than one of the elements below, it is searchable using all the relevant codes.	
<b>G01-A01</b>	<b>Alkaline earth metal compounds</b>	
<b>G01-A02</b>	<b>Zinc compounds</b>	
<b>G01-A03</b>	<b>Cadmium compounds</b>	
<b>G01-A04</b>	<b>Lead compounds</b>	
<b>G01-A05</b>	<b>Iron compounds</b>	
<b>G01-A06</b>	<b>Silicon compounds</b> Excluding clays, for which see G01-A10.	
<b>G01-A07</b>	<b>Chromium compounds</b>	
<b>G01-A08</b>	<b>Titanium compounds</b>	
<b>G01-A09</b>	<b>Mercury compounds</b>	
<b>G01-A10</b>	<b>Aluminum compounds</b> Including clays.	
<b>G01-A11</b>	<b>Carbon type</b>	
<b>G01-A12</b>	<b>Metallic, general</b>	
<b>G01-A12A</b>	<b>Aluminum (alloy) powders, flakes</b> Prior to 1986 see G01-A12.	1986
<b>G01-A13</b>	<b>Cobalt, nickel and copper compounds</b>	2005
<b>G01-A14</b>	<b>Vanadium, molybdenum and tungsten compounds</b>	2005
<b>G01-A15</b>	<b>Rare earth metal compounds</b>	2005
<b>G01-A16</b>	<b>Antimony, tin and indium compounds</b>	2005
<b>G01-A</b>	<b>Others</b>	

<b>G01-B</b>	<b>TREATMENT TO ENHANCE PROPERTIES OF INORGANIC PIGMENTS AND FILLERS</b>	
<b>G01-B</b>	<b>General treatment to enhance properties</b> Applied from 1970 to the end of 1985 and was then discontinued.	1970-1985
<b>G01-B01</b>	<b>Physical treatment</b> e.g. grinding, microwave. Prior to 1986 see G01-B.	1986
<b>G01-B02</b>	<b>Inorganic treatment</b> Prior to 1986 see G01-B.	1986
<b>G01-B03</b>	<b>Organic treatment</b> Including with polymer. Prior to 1986 see G01-B.	1986
<b>G01-C</b>	<b>MULTICOMPONENT OR COMPOSITE PIGMENTS (CONTAINING AT LEAST ONE INORGANIC COMPONENT)</b>	2005

## G02 COATINGS, PAINTS, INKS, NATURAL RESINS, POLISHES

<b>G02-A</b>	<b>PAINTS, VARNISHES, LACQUERS, INKS, PENCIL LEADS, CRAYONS, OTHER COATINGS</b>	
<b>G02-A01</b>	<b>Paints, varnishes, lacquers based on inorganic film formers</b>	
<b>G02-A01A</b>	. <b>Silicone based</b> Prior to 1972 see G02-A01.	1972
<b>G02-A02</b>	<b>Paints, varnishes, lacquers based on organic film formers</b>	
<b>G02-A02A</b>	. <b>Natural polymers</b>	
<b>G02-A02B</b>	. <b>Synthetic polymers, general</b> Excluding silicone polymers, for which see G02-A01A.	
<b>G02-A02B1</b>	.. <b>Addition polymer based paint</b> Indexed for the generic case.  <i>Previous code(s): G02-A02C, G02-A02D</i>	1994
<b>G02-A02B2</b>	.. <b>Condensation polymer based paint</b> Indexed for the generic case.  <i>Previous code(s): G02-A02B</i>	1994
<b>G02-A02C</b>	. <b>Acrylics, general</b> Prior to 1972 see G02-A02B.	1972
<b>G02-A02C1</b>	.. <b>Containing epoxy groups</b> Prior to 1977 see G02-A02C.	1977
<b>G02-A02C2</b>	.. <b>Hydroxyalkyl acrylates</b> Prior to 1977 see G02-A02C.	1977
<b>G02-A02C3</b>	.. <b>Aminoalkyl acrylates</b> Prior to 1977 see G02-A02C.	1977
<b>G02-A02C4</b>	.. <b>Acrylic nitriles, acids, amides, di- and polyacrylates</b> Excluding acrylated resins, for which see the appropriate unmodified resin. Prior to 1986 see G02-A02C.	1986
<b>G02-A02D</b>	. <b>Other vinyls and addition polymers</b> Prior to 1972 see G02-A02B.	1972

<b>G02-A02D1</b>	.. <b>From diene or polyene monomers</b> Excluding di- and poly- acrylates, for which see G02-A02C4. Prior to 1977 see G02-A02D.	1977
<b>G02-A02D2</b>	.. <b>Vinyl halide polymers</b> Prior to 1977 see G02-A02D.	1977
<b>G02-A02D3</b>	.. <b>From vinyl carboxylates or unsaturated acids other than acrylics</b> Or derivatives e.g. anhydride or ester. Prior to 1977 see G02- A02D.	1977
<b>G02-A02D4</b>	.. <b>Polymers from other unsaturated aromatics</b> e.g. styrenes. Prior to 1977 see G02-A02D.	1977
<b>G02-A02E</b>	. <b>Polyesters</b> Including alkyds. Prior to 1972 see G02-A02B.	1972
<b>G02-A02F</b>	. <b>Phenoplasts, aminoplasts</b> Prior to 1972 see G02-A02B.	1972
<b>G02-A02G</b>	. <b>Epoxy resins.</b> Prior to 1972 see G02-A02B.	1972
<b>G02-A02H</b>	. <b>Polyurethanes</b> Prior to 1972 see G02-A02B.	1972
<b>G02-A03</b>	<b>Additives for paints, varnishes, lacquers</b>	
<b>G02-A03A</b>	. <b>Organic pigment</b> Prior to 1972 see G02-A03.	1972
<b>G02-A03B</b>	. <b>Antifouling additives</b> Prior to 1977 see G02-A03.	1977
<b>G02-A03C</b>	. <b>Paint and ink removers, correcting fluids</b> Prior to 1977 see G02-A03.	1977
<b>G02-A03D</b>	. <b>Inorganic pigment for paint</b>  <i>Previous code(s): G02-A03</i>	1994
<b>G02-A04</b>	<b>Printing and writing inks; pencil leads, crayons, general</b>	
<b>G02-A04A</b>	. <b>Inks</b> Prior to 1977 see G02-A04.	1977

<b>G02-A04B</b>	. <b>Dyes and pigments for inks, crayons</b> Prior to 1977 see G02-A04.	<b>1977</b>	<b>G02-A06A</b>	. <b>Paint spray booth cleaning/maintenance</b>	<b>1994</b>
<b>G02-A05</b>	<b>Other coating compositions</b> Prior to 1971 no specific code was available.	<b>1971</b>	<b>G02-A07</b>	<b>Shape and form of coatings</b>	<b>2006</b>
<b>G02-A05A</b>	. <b>For wire</b> Including electrical conductors and cables. Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-A07A</b>	. <b>Powder coatings</b>	<b>2006</b>
<b>G02-A05B</b>	. <b>For other electrical or magnetic material</b> Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-A07A1</b>	.. <b>In slurry form</b>	<b>2006</b>
<b>G02-A05B1</b>	.. <b>For magnetic recording materials</b> For magneto-optical layers see also G06-D07.  <i>Previous code(s): G02-A05B</i>	<b>1994</b>	<hr/>		
<b>G02-A05C</b>	. <b>Paper coatings</b> Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-B</b>	<b>NATURAL RESINS, DRIERS, FRENCH POLISH</b>	
<b>G02-A05D</b>	. <b>Non-stick, release and fire-proof coatings</b> Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-B01</b>	<b>Obtaining, purification, and chemical modification of natural resins</b> e.g. oleo-resins.	
<b>G02-A05E</b>	. <b>Corrosion-resistant coatings for metal; primers</b> Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-B02</b>	<b>Obtaining spirits of turpentine</b>	
<b>G02-A05F</b>	. <b>Coatings for concrete, masonry, walls, (including water proofing for these substrates); road paints; traffic sign paints</b> Prior to 1977 see G02-A05.	<b>1977</b>	<b>G02-B03</b>	<b>Obtaining, purifying and chemical modification of drying oils</b>	
<b>G02-A05G</b>	. <b>Antifouling coatings</b>  <i>Previous code(s): G02-A05</i>	<b>1994</b>	<b>G02-B04</b>	<b>Driers (siccatives)</b>	
<b>G02-A05H</b>	. <b>Coatings on optical fibres</b>  <i>Previous code(s): G02-A05</i>	<b>1994</b>	<b>G02-B05</b>	<b>Preparation of French polish</b>	
<b>G02-A05J</b>	. <b>Anti-graffiti coatings</b>  <i>Previous code(s): G02-A05</i>	<b>1994</b>	<hr/>		
<b>G02-A05K</b>	. <b>Coatings for glass</b> (excluding G02-A05H) e.g. scratch resistance, anti-reflective, IR or UV absorption.	<b>2005</b>	<b>G02-C</b>	<b>OTHER POLISHING COMPOSITIONS, SKI WAXES</b>	
<b>G02-A06</b>	<b>Painting processes with no specific paint</b>	<b>1994</b>	<b>G02-C</b>	<b>Other polishing compositions; ski waxes</b>	

**G03 ADHESIVES**

Macromolecular adhesives, other than glue or compositions based on them are classified in Section A, but their use for adhesive purposes is also classified here.

<b>G03-A</b>	<b>GLUE, GELATIN</b>
<b>G03-A</b>	<b>Glue; gelatin</b>
<b>G03-B</b>	<b>OTHER ADHESIVES, GENERAL ADHESIVE PROCESSES</b>
<b>G03-B01</b>	<b>Inorganic</b> Including silicone resins.
<b>G03-B02</b>	<b>Organic</b>
<b>G03-B02A</b>	. <b>Natural polymers</b> Excluding glue or gelatin, for which see G03-A and excluding rubber, for which see G03-B02B.
<b>G03-B02B</b>	. <b>Natural or synthetic rubbers</b>
<b>G03-B02C</b>	. <b>Synthetic polymers, general</b>
<b>G03-B02D</b>	. <b>Synthetic polymers, addition</b> Prior to 1971 see G03-B02C. <b>1971</b>
<b>G03-B02D1</b>	.. <b>Acrylic polymers</b> Prior to 1977 see G03-B02D. <b>1977</b>
<b>G03-B02D2</b>	.. <b>Polymers from vinyl halides or vinyl carboxylates</b> Prior to 1977 see G03-B02D. <b>1977</b>
<b>G03-B02D3</b>	.. <b>Styrene polymers (optionally substituted); polymers from olefinic hydrocarbons</b> Prior to 1977 see G03-B02D. <b>1977</b>
<b>G03-B02E</b>	. <b>Synthetic polymers, condensation</b> Prior to 1971 see G03-B02C. <b>1971</b>
<b>G03-B02E1</b>	.. <b>Aminoplasts, phenoplasts</b> Prior to 1977 see G03-B02E. <b>1977</b>
<b>G03-B02E2</b>	.. <b>Epoxy resins</b> Prior to 1977 see G03-B02E. <b>1977</b>
<b>G03-B02E3</b>	.. <b>Polyesters</b> Prior to 1977 see G03-B02E. <b>1977</b>
<b>G03-B02E4</b>	.. <b>Polyurethanes; polyureas; other isocyanate resin-based adhesives</b> Prior to 1977 see G03-B02E. <b>1977</b>
<b>G03-B03</b>	<b>Adhesive processes, general</b>

**G03-B04****Adhesive compositions in the form of film or foils; adhesive tape**

e.g. on carriers.



## G04 MISCELLANEOUS COMPOSITIONS AND APPLICATIONS

<b>G04-A</b>	<b>LUMINESCENT OR TENEBRESCENT MATERIALS</b>	
<b>G04-A01</b>	<b>Photochromic or tenebrescent materials</b>	1994
	<i>Previous code(s): G04-A</i>	
<b>G04-A</b>	<b>Luminescent materials; phosphor compositions</b>	
<b>G04-B</b>	<b>OTHER COMPOSITIONS, USES IN OTHER PROCESSES</b>	
<b>G04-B01</b>	<b>Materials for heat transfer or for producing differences in temperature other than by combustion; antifreeze</b> e.g. by change in physical state.	
<b>G04-B01A</b>	<b>. Halogen containing refrigerants</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01A1</b>	<b>.. Refrigerants containing fluorine as the only halogen</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01A2</b>	<b>.. Refrigerants containing both fluorine and chlorine</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01A3</b>	<b>.. Fluoroether refrigerants</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01B</b>	<b>. Hydrocarbon refrigerants</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01C</b>	<b>. CO<sub>2</sub> as refrigerant</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01E</b>	<b>. Other specific chemicals as refrigerants</b> Prior to 2008 see G04-B01.	2008
<b>G04-B01F</b>	<b>. Refrigerant compositions or blends containing 2 or more refrigerants</b> Prior to 2008 see G04-B01.	2008
<b>G04-B02</b>	<b>Materials for sealing and packing joints or covers</b>	
<b>G04-B03</b>	<b>Antistatic</b> Other than in Section A and G06-A03.	

<b>G04-B04</b>	<b>Antislip; abrasive</b> Other than in Section A.	
<b>G04-B05</b>	<b>De-icing and de-misting</b>	
<b>G04-B06</b>	<b>Fire-proofing</b> Other than in Section A or F.	
<b>G04-B07</b>	<b>Aerosol compositions</b>	
<b>G04-B08</b>	<b>Degreasing, cleaning, scouring and bleaching</b> Other than in Section D or F. Prior to 1972 see G04-B.	1972
<b>G04-B09</b>	<b>Flaw detection (including defectoscopy) and temperature sensitive compositions</b> Prior to 1972 see G04-B.	1972
<b>G04-B</b>	<b>Other compositions</b> Including liquid crystals.	

**G05 PRINTING**

<b>G05-A</b>	<b>PRINTING PLATES</b>	
<b>G05-A</b>	<b>General</b>	
<b>G05-A01</b>	<b>Lithographic (planographic)</b>	
<b>G05-A02</b>	<b>Letterpress and deep relief (inc. flexographic)</b>	
<b>G05-A03</b>	<b>Intaglio (gravure)</b>	
<b>G05-A04</b>	<b>Stencils</b>	
<b>G05-B</b>	<b>PHOTOSENSITIVE RESISTS</b>	1970-1993
<b>G05-B</b>	<b>Photosensitive resists</b>	1970-1993
<b>G05-C</b>	<b>COLOUR PROOFING</b>	
<b>G05-C</b>	<b>Colour proofing</b>	
<b>G05-D</b>	<b>PRESSURE SENSITIVE COPYING MATERIALS</b>	
<b>G05-D</b>	<b>Pressure sensitive copying materials</b> Prior to 1971 no specific code was available.	1971
<b>G05-E</b>	<b>NON-RADIATION SENSITIVE COPYING MATERIALS</b>	
<b>G05-E</b>	<b>Non-radiation sensitive copying materials</b> Including electrolytic recording. Prior to 1971 no specific code was available.	1971
<b>G05-F</b>	<b>OTHER PRINTING MATERIALS AND PROCESSES</b>	
<b>G05-F01</b>	<b>Decalcomanias, transfers, transfer compositions</b> Prior to 1986 see G05-F.	1986
<b>G05-F02</b>	<b>Thermal heads</b> <i>Previous code(s): G05-F</i>	1994
<b>G05-F03</b>	<b>Ink jets/ink jet printing</b> For inks used in ink-jet printing see G02-A04+.	1994
<b>G05-F</b>	<b>Other printing materials and processes</b> Including magnetography; cleaning printing plates. Prior to 1971 no specific code was available.	1971

**G06 PHOTOGRAPHIC MATERIALS AND PROCESSES**

<b>G06-A</b>	<b>NON-SENSITIVE AGENTS AND LAYERS</b>	
<b>G06-A01</b>	<b>Subbing</b>	
<b>G06-A02</b>	<b>Antihalation</b> Including filters, screening dyes.	
<b>G06-A02A</b>	<b>Anti-reflective layer</b>	2005
<b>G06-A03</b>	<b>Antistatic</b>	
<b>G06-A04</b>	<b>Receiving</b> Including nucleating, nuclei.	
<b>G06-A05</b>	<b>Stripping, release</b>	
<b>G06-A06</b>	<b>Binders</b> Prior to 1971 see G06-A.	1971
<b>G06-A07</b>	<b>Electrically conductive layers for electrophotography</b> Prior to 1972 see G06-A.	1972
<b>G06-A08</b>	<b>Barrier, protective, scratch resistant layers</b> Prior to 1986 see G06-A.	1986
<b>G06-A09</b>	<b>Intensifying screens, conversion screens, storage phosphors for X-ray materials</b> Prior to 1986 see G06-A in conjunction with G04-A, G06-D01 and G06-H07.	1986
<b>G06-A10</b>	<b>Intermediate layer</b> Indexed where the function of the layer is unspecified. <i>Previous code(s): G06-A</i>	1994
<b>G06-A11</b>	<b>Reflective layer</b> <i>Previous code(s): G06-A</i>	1994
<b>G06-A12</b>	<b>Magnetic layer</b> See also G02-A05B1. <i>Previous code(s): G06-A</i>	1994
<b>G06-A13</b>	<b>Dielectric layer</b> <i>Previous code(s): G06-A</i>	1994
<b>G06-A</b>	<b>Other layers</b> Including carrier, timing and anti-curl layers.	

<b>G06-B</b>	<b>SUPPORTS</b>	<b>G06-C13</b>	<b>Additive colour systems</b>
<b>G06-B01</b>	<b>Polymeric</b>	<b>G06-C14</b>	<b>Elements with several (electro)-photographically active layers</b> e.g. multilayer colour-sensitive systems, or multilayer electro-photographic systems. Prior to 1986 no specific code was available.
<b>G06-B02</b>	<b>Paper</b>		<b>1986</b>
<b>G06-B03</b>	<b>Metal</b>		
<b>G06-B</b>	<b>Other supports</b> e.g. glass.	<b>G06-C14A</b>	. <b>Red sensitive layer</b> Prior to 1986 no specific code was available.
<b>G06-C</b>	<b>PHOTOSENSITIVE SYSTEMS BY TYPE</b>		<b>1986</b>
<b>G06-C01</b>	<b>Photosensitive layers having an incorporated coupler</b>	<b>G06-C14B</b>	. <b>Blue sensitive layer</b> Prior to 1986 no specific code was available.
<b>G06-C02</b>	<b>Kodachrome type colour materials</b> i.e. soluble coupler reacts with oxidised developer to form insoluble dye.		<b>1986</b>
<b>G06-C03</b>	<b>Dye destruction colour materials</b> e.g. silver dye bleach materials.	<b>G06-C14C</b>	. <b>Green sensitive layer</b> Prior to 1986 no specific code was available.
<b>G06-C04</b>	<b>Electrophotographic colour materials</b>		<b>1986</b>
<b>G06-C05</b>	<b>Direct positive materials</b>	<b>G06-C15</b>	<b>Releasing photographically active components on processing, other than dyestuffs</b> Prior to 1986 no specific code was available for this concept. See the codes for the individual active components released.
<b>G06-C06</b>	<b>Print-out materials</b> Including ablative systems.		<b>1986</b>
<b>G06-C07</b>	<b>Photodevelopable or direct-print materials</b>	<b>G06-C16</b>	<b>Microencapsulated photosensitive systems</b>
<b>G06-C08</b>	<b>Heat developable, photosensitive materials</b>		<b>1994</b>
<b>G06-C09</b>	<b>Multicolour diffusion transfer materials</b>		<i>Previous code(s): G06-C</i>
<b>G06-C09A</b>	. <b>Multicolour dye release diffusion transfer materials</b> Where e.g. existing dyestuffs attached to ballast groups are released during development for diffusion. Prior to 1986 see G06-C09 in conjunction with G06-G10 and G06-G14.	<b>G06-C</b>	<b>Other systems and materials</b> Including vesicular; systems with light induced adhesiveness developed by toning.
	<b>1986</b>	<b>G06-D</b>	<b>APPLICATIONS</b>
<b>G06-C10</b>	<b>Single colour diffusion transfer materials</b>	<b>G06-D01</b>	<b>X-ray materials</b>
<b>G06-C10A</b>	. <b>Single colour dye release diffusion transfer materials</b> Where e.g. existing dyestuffs attached to ballast groups are released during development for diffusion. Prior to 1986 see G06-C10 in conjunction with G06-G01 and G06-G04.	<b>G06-D02</b>	<b>Lithographic films, papers (high contrast)</b>
	<b>1986</b>	<b>G06-D03</b>	<b>Direct electron recording</b>
<b>G06-C11</b>	<b>Colloid transfer materials</b>	<b>G06-D04</b>	<b>Photoresists</b> Excluding G06-D05+, G06-D06.
<b>G06-C12</b>	<b>Imbibition dye transfer systems</b>	<b>G06-D05</b>	<b>Production of printing plates</b> Prior to 1971 see G06-D.
			<b>1971</b>
		<b>G06-D05A</b>	. <b>Electrophotographically</b> Prior to 1986 see G06-D05.
			<b>1986</b>
		<b>G06-D06</b>	<b>Production of electrical elements</b> Prior to 1971 see G06-D.
			<b>1971</b>

<b>G06-D06A</b>	<ul style="list-style-type: none"> <li>• <b>Circuits and circuit components</b> e.g. semiconductors</li> </ul>	2005	<b>G06-F03C</b>	<ul style="list-style-type: none"> <li>• <b>Radiation-sensitive composition containing polymer</b> Prior to 1977 see G06-F03.</li> </ul>	1977
<b>G06-D06B</b>	<ul style="list-style-type: none"> <li>• <b>Optoelectronic</b> e.g. LCD, optical filters, wave guides.</li> </ul>	2005	<b>G06-F03D</b>	<ul style="list-style-type: none"> <li>• <b>Additives</b> e.g. photosensitisers. Prior to 1977 see G06-F03.</li> </ul>	1977
<b>G06-D07</b>	<p><b>Optical storage media</b> Including optical discs, laser recording discs and magneto-optical discs. Prior to 1986 see G06-D.</p>	1986	<b>G06-F04</b>	<b>Non-silver metals and their compounds</b>	
<b>G06-D</b>	<p><b>Other applications</b> Including microfilms, cine-sound tracks, identity cards; holograms (with G06-E).</p>		<b>G06-F05</b>	<b>Radiation-sensitive dyes</b>	
<b>G06-E</b>	<b>SPECIAL TECHNIQUES</b>		<b>G06-F06</b>	<b>Organic photoconductors, charge generators, charge transport materials</b>	
<b>G06-E01</b>	<b>Screening (half tones)</b>		<b>G06-F07</b>	<b>Inorganic photoconductors, charge generators, charge transport materials</b>	
<b>G06-E02</b>	<b>Masking</b>		<b>G06-F07A</b>	<ul style="list-style-type: none"> <li>• <b>ZnO or Selenium</b> Including selenium alloys or compounds. Prior to 1972 see G06-F07.</li> </ul>	1972
<b>G06-E03</b>	<p><b>In-camera processing</b> Including integral film packs, e.g. 'Polaroid'®.</p>		<b>G06-F08</b>	<p><b>Heat sensitive</b> Including thermographic and infra-red systems.</p>	
<b>G06-E04</b>	<b>Coating</b>		<b>G06-F08A</b>	<ul style="list-style-type: none"> <li>• <b>Containing novel active materials</b> Such as (leuco) dyes, couplers, chromogenic compounds (colour formers), electron donors, electron acceptors. Prior to 1986 see G06-F08.</li> </ul>	1986
<b>G06-E05</b>	<p><b>Drying</b> Including during manufacture.</p>		<b>G06-F</b>	<b>Others</b> Including silver salts other than halide.	
<b>G06-E</b>	<p><b>Other</b> Including holograms (with G06-D); silver recovery; packaging of photographic materials.</p>		<b>G06-G</b>	<b>PROCESSING AGENTS AND STEPS</b> Black and white silver halide processing.	
<b>G06-F</b>	<b>RADIATION SENSITIVE SYSTEMS</b> i.e. element in systems.		<b>G06-G01</b>	<b>Developing</b>	
<b>G06-F01</b>	<b>Silver halide</b>		<b>G06-G02</b>	<b>Fixing</b>	
<b>G06-F01A</b>	<ul style="list-style-type: none"> <li>• <b>Silver halide tabular grain emulsion</b></li> </ul> <p style="text-align: right;"><i>Previous code(s): G06-F01</i></p>	1994	<b>G06-G03</b>	<b>Stabilisation processing</b>	
<b>G06-F01B</b>	<ul style="list-style-type: none"> <li>• <b>Silver halide core-shell emulsion</b></li> </ul> <p style="text-align: right;"><i>Previous code(s): G06-F01</i></p>	1994	<b>G06-G04</b>	<b>Other processing steps</b> Electrophotographic.	
<b>G06-F02</b>	<b>Diazo</b>		<b>G06-G05</b>	<b>Dry toning</b>	
<b>G06-F03</b>	<b>Polymeric</b>		<b>G06-G05A</b>	<ul style="list-style-type: none"> <li>• <b>Dry toning composition</b></li> </ul>	2005
<b>G06-F03A</b>	<ul style="list-style-type: none"> <li>• <b>Photoconductors</b> Prior to 1977 see G06-F03 in conjunction with G06-F06.</li> </ul>	1977	<b>G06-G05B</b>	<ul style="list-style-type: none"> <li>• <b>Substrates for electrophotographic printing</b></li> </ul>	2005
<b>G06-F03B</b>	<ul style="list-style-type: none"> <li>• <b>Radiation-sensitive composition containing monomer</b> Prior to 1977 see G06-F03.</li> </ul>	1977	<b>G06-G06</b>	<b>Liquid toning</b>	

<b>G06-G07</b>	<b>Charging</b>		<b>G06-H05</b>	<b>Image toners (non-electrophotographic)</b>
<b>G06-G08</b>	<b>Other processing steps</b>		<b>G06-H06</b>	<b>Desensitisers</b> Including electron acceptors.
<b>G06-G08A</b>	. <b>Imaging methods</b> Including deformation of thermoplastic layers, electrophoretic compositions. Prior to 1972 see G06-G08.	1972	<b>G06-H07</b>	<b>Spectral (optical) sensitisers</b>
<b>G06-G08B</b>	. <b>Toner transfer processes</b> Prior to 1986 see G06-G08.	1986	<b>G06-H07A</b>	. <b>Cyanines</b>
<b>G06-G08C</b>	. <b>Fusing, fixing processes</b> Prior to 1986 see G06-G08.	1986	<b>G06-H07B</b>	. <b>Merocyanines (neutrocyanine)</b>
<b>G06-G08D</b>	. <b>Charge transfer, latent image transfer processes</b> Prior to 1986 see G06-G08.	1986	<b>G06-H07C</b>	. <b>Oxanols</b>
<b>G06-G08E</b>	. <b>Cleaning processes</b>	2005	<b>G06-H07D</b>	. <b>Pyrylium types</b>
<b>G06-G09</b>	<b>Diazo processing (including ammonia vapour)</b> Colour silver halide processing.		<b>G06-H08</b>	<b>Couplers</b>
<b>G06-G10</b>	<b>Development</b>		<b>G06-H08A</b>	. <b>Phenolic (naphtholic)</b>
<b>G06-G11</b>	<b>Bleaching</b>		<b>G06-H08B</b>	. <b>Pyrazolones</b>
<b>G06-G12</b>	<b>Fixing</b>		<b>G06-H08C</b>	. <b>Keto-methylene types</b>
<b>G06-G13</b>	<b>Stabilisation processing</b>		<b>G06-H08D</b>	. <b>Pyrazolotriazole couplers</b> <b>1994</b> <i>Previous code(s): G06-H08</i>
<b>G06-G14</b>	<b>Other steps</b>		<b>G06-H09</b>	<b>Brighteners</b>
<b>G06-G15</b>	<b>Monobath processing</b>		<b>G06-H09A</b>	. <b>Oxazoles</b>
<b>G06-G16</b>	<b>Reversal processing (two development steps give direct positive image)</b>		<b>G06-H09B</b>	. <b>Stilbenes</b>
<b>G06-G17</b>	<b>Development of photosensitive resin systems</b> Prior to 1986 see G06-G.	1986	<b>G06-H09C</b>	. <b>Coumarins</b>
<b>G06-G18</b>	<b>Image formation by exposure to ionising radiation, light etc.</b> Prior to 1986 no specific code was available.	1986	<b>G06-H09D</b>	. <b>Thiazoles</b>
<b>G06-G</b>	<b>Others</b>		<b>G06-H10</b>	<b>Mordants</b>
<b>G06-H</b>	<b>PHOTOGRAPHIC AGENTS</b>		<b>G06-H11</b>	<b>Image stabilisers</b>
<b>G06-H01</b>	<b>Chemical sensitisers</b>		<b>G06-H12</b>	<b>Development accelerators</b>
<b>G06-H02</b>	<b>Fungicides, bactericides</b>		<b>G06-H13</b>	<b>Development restrainers</b>
<b>G06-H03</b>	<b>Antifoggants, emulsion/developer stabilisers</b>		<b>G06-H14</b>	<b>Hardeners (used for anti-hardeners, crosslinking agents)</b>
<b>G06-H04</b>	<b>Covering power increasing agents</b>		<b>G06-H15</b>	<b>Plasticisers</b>
			<b>G06-H16</b>	<b>Matting agents</b>
			<b>G06-H17</b>	<b>Lubricants</b>
			<b>G06-H18</b>	<b>Coating aids</b>
			<b>G06-H19</b>	<b>Other specific agents</b> Including materials such as solvents for incorporation of incompatible (e.g. hydrophobic) agents in photographic compositions or layers. Prior to 1986 see G06-H.
				<b>1986</b>
			<b>G06-H</b>	<b>Miscellaneous materials of unspecified photographic use</b>

**H:**  
**PETROLEUM**

- H01 Crude Oil and Natural Gas
- H02 Unit Operations
- H03 Transportation and Storage
- H04 Petroleum Processing
- H05 Refinery Engineering
- H06 Gaseous and Liquid Fuels
- H07 Lubricants and Lubrication
- H08 Other Petroleum Products
- H09 Fuels not of Petroleum Origin

**H: PETROLEUM**

Code commenced at CPI Week 197001.

**H01 CRUDE OIL AND NATURAL GAS**

<b>H01-A</b>	<b>EXPLORATION</b>	
<b>H01-A01</b>	<b>Geological; geophysical</b> E.g. seismic exploration	
<b>H01-A01A</b>	. <b>Seismic surveying</b> For exploration prior to well drilling. For well logging see H01-A02	2006
<b>H01-A02</b>	<b>Well logging, general</b>	
<b>H01-A02A</b>	. <b>Electric/magnetic logging</b> Include NMR logging	1986
<b>H01-A02B</b>	. <b>Radioactive logging</b>	1986
<b>H01-A02C</b>	. <b>Acoustic logging</b>	1986
<b>H01-A</b>	<b>Unclassified</b>	197031
<b>H01-B</b>	<b>DRILLING</b>	
<b>H01-B01</b>	<b>Marine structures and equipment</b> Includes mooring and mudmat for offshore.	
<b>H01-B01A</b>	. <b>Fixed multi-well platforms</b>	1986
<b>H01-B01B</b>	. <b>Mobile jack-up platforms</b>	1986
<b>H01-B01C</b>	. <b>Drill ships</b>	1986
<b>H01-B01D</b>	. <b>Semi-submersible platforms</b>	1986
<b>H01-B01E</b>	. <b>Decommissioning of marine production platforms</b> Including reuse of upper parts, such as decks.	2002
<b>H01-B02</b>	<b>Slim hole drilling</b>	
<b>H01-B03</b>	<b>Rotary drilling</b>	
<b>H01-B03A</b>	. <b>Derricks, rig floor equipment</b>	197031
<b>H01-B03A1</b>	.. <b>Derricks</b>	1986
<b>H01-B03A2</b>	.. <b>Drilling mud mixing and return mud processing</b>	1986

<b>H01-B03A3</b>	.. <b>Hoisting and rotating equipment</b>	1986
<b>H01-B03B</b>	. <b>Well control equipment</b> Also includes logging-while-drilling and measuring and controlling downhole conditions/parameters, etc.	197031
<b>H01-B03B1</b>	.. <b>Logging while drilling</b>	1986
<b>H01-B03B2</b>	.. <b>Measuring procedures and equipment</b>	1986
<b>H01-B03B3</b>	.. <b>Valves and control equipment</b> Including downhole blowout preventers.	1986
<b>H01-B03C</b>	. <b>Subsurface equipment</b>	197031
<b>H01-B03C1</b>	.. <b>Drill bits</b>	1986
<b>H01-B03C2</b>	.. <b>Drill collars</b>	1986
<b>H01-B03C3</b>	.. <b>Drill pipe</b>	1986
<b>H01-B03C4</b>	.. <b>Kelly</b>	1986
<b>H01-B03C5</b>	.. <b>Drill and casing protectors, Centralisers</b>	2006
<b>H01-B03C6</b>	.. <b>Drilling riser</b>	2007
<b>H01-B03D</b>	. <b>Transmission/generation of power, data etc.</b> Includes cables, connectors, antennae etc. for downhole use.	2005
<b>H01-B04</b>	<b>Cable drilling</b>	
<b>H01-B05</b>	<b>Other drilling methods and equipment</b> Including electric, explosive, thermal and hydraulic, also includes under-reamer assemblies.	
<b>H01-B05A</b>	. <b>Directional and turbo-drilling</b>	1986
<b>H01-B05B</b>	. <b>Coring</b> E.g. sampling.	1986
<b>H01-B06</b>	<b>Drilling fluids</b>	1994
<b>H01-B06A</b>	. <b>Water-based drilling fluids</b>	1986
<b>H01-B06B</b>	. <b>Oil based drilling fluids</b>	1986

<b>H01-B06C</b>	<b>. Drilling fluid additives</b>	<b>1994</b>	<b>H01-C</b>	<b>Unclassified</b>	<b>197031</b>
<b>H01-B07</b>	<b>Fishing and retrieval tools</b>		<b>H01-D</b>	<b>PRODUCING</b>	
<b>H01-B08</b>	<b>Testing operations and equipment, general</b>	<b>1986</b>	<b>H01-D01</b>	<b>Oil-lifting equipment</b>	
<b>H01-B</b>	<b>Unclassified</b>		<b>H01-D02</b>	<b>Gas-lifting equipment</b>	
<b>H01-C</b>	<b>WELL COMPLETION, STIMULATING, AND SERVICING</b>		<b>H01-D03</b>	<b>Pumps</b>	
<b>H01-C01</b>	<b>Casing and tubing excluding well packers, general</b>		<b>H01-D04</b>	<b>Separators</b>	
<b>H01-C01A</b>	<b>. Well packers</b>	<b>1986</b>	<b>H01-D05</b>	<b>Marine production equipment</b>	
<b>H01-C01B</b>	<b>. Joining of casing</b> Includes of formation of joints and lateral wellbore sections.	<b>2005</b>	<b>H01-D06</b>	<b>Water flooding, general</b>	
<b>H01-C02</b>	<b>Cementing</b> Includes plastering.		<b>H01-D06A</b>	<b>. Brine flooding</b>	<b>1986</b>
<b>H01-C02A</b>	<b>. Methods and equipment</b>	<b>1986</b>	<b>H01-D06B</b>	<b>. Steam flooding</b>	<b>1986</b>
<b>H01-C02B</b>	<b>. Cement compositions</b>	<b>1986</b>	<b>H01-D06C</b>	<b>. CO2 flooding</b>	<b>1994</b>
<b>H01-C03</b>	<b>Fracturing; Fracking</b>		<b>H01-D06D</b>	<b>. Polymer flooding</b>	<b>2002</b>
<b>H01-C04</b>	<b>Acidising</b>		<b>H01-D06E</b>	<b>. Alkaline flooding</b>	<b>2002</b>
<b>H01-C05</b>	<b>Perforating</b>		<b>H01-D07</b>	<b>Repressuring</b>	
<b>H01-C06</b>	<b>Wellhead equipment, general</b>		<b>H01-D08</b>	<b>Thermal methods</b> E.g. steam injection, microwaves, etc.	
<b>H01-C06A</b>	<b>. Blowout preventers</b>	<b>1986</b>	<b>H01-D09</b>	<b>Chemical methods</b>	
<b>H01-C07</b>	<b>Screens and liners</b>		<b>H01-D10</b>	<b>Oil shale treatment and equipment</b>	
<b>H01-C08</b>	<b>Gravel packing</b>		<b>H01-D11</b>	<b>Tar sands treatment and equipment</b> E.g. bitumen extraction.	
<b>H01-C09</b>	<b>Consolidation of incompetent formations</b>	<b>197031</b>	<b>H01-D12</b>	<b>Testing, control operations and equipment, general</b>	<b>1986</b>
<b>H01-C10</b>	<b>Servicing</b> E.g. cleaning deposits.	<b>197031</b>	<b>H01-D13</b>	<b>Methods using bacteria</b>	<b>1994</b>
<b>H01-C11</b>	<b>Testing, control operations and equipment, general</b>	<b>1986</b>	<b>H01-D14</b>	<b>Water control methods</b> For compositions, see H01-C12.	<b>2005</b>
<b>H01-C12</b>	<b>Water control compositions</b> For methods, see H01-D14.	<b>2005</b>	<b>H01-D</b>	<b>Unclassified</b>	
<b>H01-C13</b>	<b>Cutting or destroying of packers, pipes, plugs, etc.</b> Includes reconditioning of well casings, cutting and destroying of damaged pipes, windows, etc.	<b>2012</b>	<b>H01-E</b>	<b>TREATING AND TESTING</b> Does not include well treatment procedures already covered in H01-C:	
<b>H01-C14</b>	<b>Lost circulation control/materials</b>	<b>2012</b>	<b>H01-E01</b>	<b>Emulsion breaking, desalting and dehydrating</b>	
			<b>H01-E02</b>	<b>Corrosion inhibiting</b>	
			<b>H01-E03</b>	<b>Testing crude oils</b>	<b>2005</b>



<b>H01-E04</b>	<b>Water treatment</b> Includes composition e.g. anti-sludging agent and apparatus.	2010
<b>H01-E05</b>	<b>Scale inhibition</b>	2010
<b>H01-E</b>	<b>Unclassified</b>	
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<b>H01-F</b>	<b>NATURAL GAS</b>	
<b>H01-F01</b>	<b>Field treatment and processing</b>	197031
<b>H01-F02</b>	<b>Liquefaction methods and equipment</b>	197031
<b>H01-F</b>	<b>Unclassified</b>	197031
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<b>H01-G</b>	<b>EXTINGUISHING OIL WELL FIRES</b>	1994
<b>H01-G01</b>	<b>Explosives</b>	1994
<b>H01-G02</b>	<b>Capping</b>	1994
<b>H01-G03</b>	<b>Flame retardant materials</b>	2011
<b>H01-G</b>	<b>General</b>	1994
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<b>H01-H</b>	<b>WELL KILLING</b>	2010
<b>H01-H</b>	<b>General</b>	2010
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<b>H01-P</b>	<b>OIL AND GAS WELL PIPES</b> Includes pipes used during well drilling, completion and production.	2010
<b>H01-P</b>	<b>General</b>	2010
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<b>H01-R</b>	<b>DEPLETED OIL/GAS FIELDS</b>	2010
<b>H01-R</b>	<b>General</b>	2010
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<b>H01-X</b>	<b>OTHER</b>	2010
<b>H01-X</b>	<b>General</b> Includes well tractors and protective clothing.	2010

## H02 UNIT OPERATIONS

<b>H02-A</b>	<b>DISTILLATION</b>	
<b>H02-A01</b>	<b>Fractional</b>	
<b>H02-A02</b>	<b>Atmospheric</b>	
<b>H02-A03</b>	<b>Azeotropic</b>	
<b>H02-A04</b>	<b>Extractive</b>	
<b>H02-A05</b>	<b>Steam</b>	
<b>H02-A06</b>	<b>Vacuum</b>	
<b>H02-A</b>	<b>Unclassified</b>	197031
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<b>H02-B</b>	<b>SORPTION</b>	
<b>H02-B01</b>	<b>Molecular sieves</b> Includes metal-organic frameworks.	2006
<b>H02-B02</b>	<b>Silica gel</b>	
<b>H02-B03</b>	<b>Carbon</b>	
<b>H02-B04</b>	<b>Urea</b>	
<b>H02-B05</b>	<b>Pressure swing adsorption</b>	2002
<b>H02-B</b>	<b>Unclassified</b>	197031
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<b>H02-C</b>	<b>SOLVENT EXTRACTION</b>	
<b>H02-C01</b>	<b>Organic liquids</b>	
<b>H02-C02</b>	<b>Inorganic liquids</b>	
<b>H02-C</b>	<b>Unclassified</b>	197031
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<b>H02-D</b>	<b>MISCELLANEOUS OPERATIONS</b>	
<b>H02-D01</b>	<b>Ion exchange processes</b>	197031
<b>H02-D02</b>	<b>Separation by adduct (urea etc.)</b>	197031
<b>H02-D03</b>	<b>Centrifugal separation</b>	1986
<b>H02-D04</b>	<b>Membrane/filter separation</b>	1986
<b>H02-D</b>	<b>Unclassified</b>	197031

## H03 TRANSPORTATION AND STORAGE

<b>H03-A</b>	<b>GATHERING LINES</b>	
<b>H03-A</b>	<b>General</b>	
<b>H03-B</b>	<b>PIPELINES</b>	
	Includes oil and gas transportation pumps.	
<b>H03-B01</b>	<b>Fluid loss additives</b>	1994
<b>H03-B02</b>	<b>Installing/testing pipelines</b>	2002
<b>H03-B03</b>	<b>Pipeline accessories</b>	
	E.g. connectors.	2002
<b>H03-B04</b>	<b>Repairing/servicing pipelines</b>	
	Includes cleaning of pipelines.	2006
<b>H03-B</b>	<b>General</b>	
<b>H03-C</b>	<b>TANKS, CARS AND TRUCKS</b>	
<b>H03-C</b>	<b>General</b>	
<b>H03-D</b>	<b>MARINE</b>	
<b>H03-D</b>	<b>General</b>	
	E.g. oil tankers.	
<b>H03-E</b>	<b>STORAGE TANKS AND CONTAINERS</b>	
<b>H03-E</b>	<b>General</b>	
<b>H03-E01</b>	<b>Recondensation systems</b>	
	To prevent loss of HC, especially natural gases, to the atmosphere.	2005
<b>H03-F</b>	<b>UNDERGROUND STORAGE</b>	
<b>H03-F</b>	<b>General</b>	
<b>H03-G</b>	<b>POLLUTION CONTROL, METHODS AND EQUIPMENT</b>	197031
<b>H03-G</b>	<b>General</b>	
<b>H03-G01</b>	<b>Marine oil pollution</b>	
	E.g. booms, skimmers, etc.	2002
<b>H03-G02</b>	<b>Soil contamination</b>	
	E.g. from oil spills.	2002
<b>H03-X</b>	<b>OTHER TRANSPORTATION AND STORAGE OF OIL AND GAS</b>	197031
<b>H03-X</b>	<b>Unclassified</b>	

**H03-X01**      **Transferring oil or petroleum**      2005

**H03-X02**      **Testing**  
 E.g. testing and monitoring in storage applications, such as level of stored component, tank leakage.      2006

**H04 PETROLEUM PROCESSING**

<b>H04-A</b>	<b>TREATING</b>	
<b>H04-A01</b>	<b>Sweetening</b>	
<b>H04-A02</b>	<b>Metal contaminant removal</b>	
<b>H04-A03</b>	<b>Nitrogen contaminant removal</b>	
<b>H04-A04</b>	<b>Gum or gum former removal</b>	
<b>H04-A05</b>	<b>With acid</b>	
<b>H04-A06</b>	<b>With alkali</b>	
<b>H04-A07</b>	<b>With hydrogen</b> E.g. hydrotreating.	
<b>H04-A08</b>	<b>Deasphalting</b>	
<b>H04-A09</b>	<b>Deoiling</b>	
<b>H04-A10</b>	<b>Dewaxing</b> Includes deparaffination/dewaxing.	2005
<b>H04-A10A</b>	<b>Deparaffination/dehazing</b> Scope now covered by H04-A10.	2002-2004
<b>H04-A</b>	<b>Unclassified</b>	197031
<b>H04-B</b>	<b>CRACKING</b>	
<b>H04-B01</b>	<b>Thermal and coking</b>	
<b>H04-B02</b>	<b>Catalytic</b>	
<b>H04-B03</b>	<b>Hydrocracking</b>	
<b>H04-B04</b>	<b>Other cracking methods</b> Includes cracking of hydrocarbons by electric means, electromagnetic or mechanical vibrations, by particle radiation or with gases superheated in electric arcs.	
<b>H04-B</b>	<b>Unclassified</b>	197031
<b>H04-C</b>	<b>REFORMING</b>	
<b>H04-C01</b>	<b>Thermal</b>	
<b>H04-C02</b>	<b>Catalytic</b>	
<b>H04-C03</b>	<b>Hydroforming</b>	
<b>H04-C</b>	<b>Unclassified</b>	197031
<b>H04-D</b>	<b>GASOLINE PREPARATION BY</b>	
<b>H04-D01</b>	<b>Polymerisation</b>	
<b>H04-D02</b>	<b>Alkylation</b>	
<b>H04-D03</b>	<b>Isomerisation</b>	
<b>H04-D</b>	<b>Unclassified</b>	197031

<b>H04-E</b>	<b>OTHER PROCESSES</b>	
<b>H04-E01</b>	<b>Aromatization</b>	
<b>H04-E02</b>	<b>Biosynthesis</b>	
<b>H04-E03</b>	<b>Dehydrogenation</b>	
<b>H04-E04</b>	<b>Gasification, steam reforming</b>	
<b>H04-E05</b>	<b>Hydrocarbon synthesis</b>	
<b>H04-E06</b>	<b>Hydrogen manufacture</b>	
<b>H04-E07</b>	<b>Pollution control</b> Scope is covered by H05-L+ since 197031.	
<b>H04-E08</b>	<b>Hydrogenation</b>	197031
<b>H04-E09</b>	<b>Dealkylation</b>	197031
<b>H04-E10</b>	<b>Town gas production</b>	197031
<b>H04-E11</b>	<b>Isomerisation (non-gasoline production)</b>	1994
<b>H04-E12</b>	<b>Dearomatization</b>	2002
<b>H04-E13</b>	<b>Alkylation</b>	2002
<b>H04-E14</b>	<b>(De)Halogenation</b>	2011
<b>H04-E15</b>	<b>Etherification</b>	2011
<b>H04-E16</b>	<b>Oligomerisation</b>	2012
<b>H04-E17</b>	<b>Esterification</b>	2013
<b>H04-E18</b>	<b>(Unconventional) upgrading of heavy oil/bitumen</b> Other H04 manual codes can also be applied in conjunction with this code.	2021
<b>H04-E18A</b>	<b>Upgrading using supercritical water</b>	2021
<b>H04-E18B</b>	<b>Upgrading by other means</b>	2021
<b>H04-E</b>	<b>Unclassified</b> Includes all hydrocarbon conversion procedures not specifically covered elsewhere.	
<b>H04-F</b>	<b>CATALYSTS</b>	
<b>H04-F01</b>	<b>Preparation/composition</b> This code was retired in 197701. Catalyst production is now coded in H04-F05 and composition in H04-F06.	

<b>H04-F02</b>	<b>General (no process specified)</b>	1977
<b>H04-F02A</b>	. <b>Treating</b>	1977
<b>H04-F02B</b>	. <b>Cracking</b>	1977
<b>H04-F02C</b>	. <b>Reforming</b>	1977
<b>H04-F02D</b>	. <b>Gasoline preparation</b>	1977
<b>H04-F02E</b>	. <b>Other processes</b>	1977
<b>H04-F03</b>	<b>Catalyst carriers</b>	1977
<b>H04-F04</b>	<b>Regeneration</b>	2002
<b>H04-F05</b>	<b>Catalyst production and manufacture</b>	2005
<b>H04-F06</b>	<b>Catalyst composition</b>	2010
<b>H04-F</b>	<b>Unclassified</b>	197031

## H05 REFINERY ENGINEERING

<b>H05-A</b>	<b>FURNACES</b>	
<b>H05-A</b>	<b>General</b>	
<b>H05-B</b>	<b>TOWERS AND EQUIPMENT THEREFOR</b>	
<b>H05-B</b>	<b>General</b>	
<b>H05-C</b>	<b>PRESSURE VESSELS</b>	
<b>H05-C</b>	<b>General</b>	
<b>H05-D</b>	<b>PIPES, FITTINGS, VALVES</b>	
<b>H05-D</b>	<b>General</b>	
<b>H05-E</b>	<b>PUMPS AND COMPRESSORS</b>	
<b>H05-E</b>	<b>General</b>	
<b>H05-F</b>	<b>FLARES</b>	
<b>H05-F</b>	<b>General</b>	
<b>H05-G</b>	<b>ELECTRICAL EQUIPMENT</b>	
<b>H05-G</b>	<b>General</b>	
<b>H05-H</b>	<b>PRIME MOVERS</b>	
<b>H05-H</b>	<b>General</b>	
<b>H05-J</b>	<b>AUTOMATIC CONTROL EQUIPMENT</b>	
<b>H05-J</b>	<b>General</b>	
<b>H05-K</b>	<b>TEST EQUIPMENT AND TEST PROCEDURES</b>	1975
<b>H05-K</b>	<b>General</b>	
<b>H05-L</b>	<b>POLLUTION CONTROL</b>	
<b>H05-L01</b>	<b>Air pollution</b>	197031
<b>H05-L02</b>	<b>Water pollution</b>	197031
<b>H05-L03</b>	<b>Ground pollution</b>	2005
<b>H05-L</b>	<b>Pollution control, general</b>	197031
<b>H05-M</b>	<b>QUENCHING AND HEAT EXCHANGE EQUIPMENT</b>	1986
<b>H05-M</b>	<b>General</b>	
<b>H05-N</b>	<b>REACTORS</b>	2002
<b>H05-N</b>	<b>General</b>	

<b>H05-P</b>	<b>CHEMICAL TREATMENT</b>	<b>2002</b>
<b>H05-P</b>	<b>General</b> E.g. coke inhibition, defoaming, descaling, etc.	
<b>H05-X</b>	<b>OTHER REFINERY EQUIPMENT AND METHODS</b>	<b>1975</b>
<b>H05-X</b>	<b>Unclassified</b>	

## H06 GASEOUS AND LIQUID FUELS

<b>H06-A</b>	<b>GASEOUS FUELS</b>	
<b>H06-A01</b>	<b>(Liquefied) petroleum gases</b>	
<b>H06-A02</b>	<b>(Liquefied) natural gas</b>	
<b>H06-A03</b>	<b>Hydrogen</b>	<b>2002</b>
<b>H06-A04</b>	<b>Biofuel gases</b> E.g. methane production by digestion or fermentation of e.g. waste organic materials.	<b>2002</b>
<b>H06-A05</b>	<b>Synthesis gas</b>	<b>2010</b>
<b>H06-A</b>	<b>Unclassified</b>	<b>197031</b>
<b>H06-B</b>	<b>LIQUID FUELS</b>	
<b>H06-B01</b>	<b>Gasoline</b>	
<b>H06-B02</b>	<b>Kerosene</b>	
<b>H06-B03</b>	<b>Jet fuels</b>	
<b>H06-B04</b>	<b>Diesel fuels</b>	
<b>H06-B04A</b>	<b>. Biodiesel</b> Covers any diesel fuel containing components manufactured from vegetable oils of e.g. waste organic materials.	<b>2005</b>
<b>H06-B05</b>	<b>Heating oils and fuel oils</b>	
<b>H06-B06</b>	<b>Liquid fuels derived from waste polymer material</b>	<b>2002</b>
<b>H06-B07</b>	<b>Other liquid biofuels</b> Any liquid fuels produced biologically other than biodiesel and alcohol.	<b>2005</b>
<b>H06-B08</b>	<b>Alcohol fuels</b> Includes ethanol/methanol and alcohol-based fuels e.g. as used in Brazil.	<b>2005</b>
<b>H06-B09</b>	<b>Emulsion fuels</b>	<b>2006</b>
<b>H06-B</b>	<b>Unclassified</b>	<b>197031</b>
<b>H06-C</b>	<b>POLLUTION CONTROL</b>	
<b>H06-C01</b>	<b>Air</b>	<b>197031</b>
<b>H06-C01A</b>	<b>. Catalytic</b>	

<b>H06-C01B</b>	. <b>Non-catalytic</b>	2006	<b>H06-D04</b>	<b>Anti-knocking agents, combustion efficiency improvers</b>	1986
<b>H06-C02</b>	<b>Water</b>	197031	<b>H06-D05</b>	<b>Cloud/pour point depressants, fluidity improvers</b> Includes additives for decreasing cold filter plugging point.	1986
<b>H06-C03</b>	<b>I.C. engine, catalytic</b>	1975	<b>H06-D06</b>	<b>Friction reducing and antiwear agents</b>	1986
<b>H06-C03A</b>	. <b>Oxidation of CO, NO and hydrocarbons</b>	1975	<b>H06-D07</b>	<b>Other specified, but unclassified functions</b>	1986
<b>H06-C03B</b>	. <b>Reduction of N oxides</b>	1975	<b>H06-D08</b>	<b>Biocidal</b> Includes anti-slime compounds.	2005
<b>H06-C03B1</b>	.. <b>Selective Catalytic Reduction (SCR)</b> Injection of small amounts of urea and water into hot i.c. engine exhaust gas to reduce NOX production.	2007	<b>H06-D</b>	<b>Multifunctional and general</b>	1986
<b>H06-C03C</b>	. <b>Sulfur oxides</b>	2006	<b>H06-E</b>	<b>TESTING FUELS (GASEOUS OR LIQUID)</b>	1994
<b>H06-C04</b>	<b>I.C. engine, non-catalytic</b>	1975	<b>H06-E</b>	<b>General</b>	1994
<b>H06-C04A</b>	. <b>By filtration</b> Includes filter regeneration.	2005	<b>H06-F</b>	<b>MARKING FUELS</b>	1994
<b>H06-C04B</b>	. <b>By centrifugal force</b> Includes particle separation by inertial mass. See also X25-H06 for electrical details of centrifugal separator.	2011	<b>H06-F</b>	<b>General</b>	1994
<b>H06-C04C</b>	. <b>By electrostatic precipitation</b>	2012	<b>H06-P</b>	<b>FUEL PREPARATION</b> Includes manufacturing techniques/apparatus of liquid and gaseous fuels. Includes fuel additive production.	2012
<b>H06-C05</b>	<b>Detection, control and measurement of I.C. engine exhaust gases</b>	2002	<b>H06-P</b>	<b>General</b> Includes manufacturing techniques/apparatus of liquid and gaseous fuels.	2012
<b>H06-C06</b>	<b>Testing, controlling and monitoring of exhaust treatment devices</b> Includes measuring, testing, controlling and monitoring of filters, catalysts, etc.	2012	<b>H06-X</b>	<b>OTHER FUEL ASPECTS</b>	2006
<b>H06-C</b>	<b>Unclassified</b>	197031	<b>H06-X01</b>	<b>Treatment of fuels</b> Includes processes such as chemical, electrical and magnetic treatments as well as irradiation. For fuel separation, see H06-X02.	2006
<b>H06-D</b>	<b>ADDITIVES</b>		<b>H06-X02</b>	<b>Separation of fuels</b> e.g. removal of gaseous/liquid fuel from a mixture.	2012
<b>H06-D01</b>	<b>Antioxidants, stabilisers</b>	1986	<b>H06-X03</b>	<b>Recycling/regeneration of fuels</b>	2015
<b>H06-D02</b>	<b>Corrosion and rust inhibitors</b>	1986	<b>H06-X</b>	<b>General</b>	2006
<b>H06-D03</b>	<b>Anti-icing agents, detergents, dispersants</b> Includes surfactants.	1986			

## H07 LUBRICANTS AND LUBRICATION

<b>H07-A</b>	<b>SYNTHETIC</b>	
<b>H07-A</b>	<b>General, including lubricants of non-petroleum origin</b>	
<b>H07-A01</b>	<b>Lubes of vegetable origin</b>	2005
<b>H07-A02</b>	<b>Oxygen-containing lubricants - general</b> Includes (poly)ethers. Other specific examples of types of compounds which are oxygen-containing lubricants are coded in H07-A02A and H07-A02B.	2005
<b>H07-A02A</b>	<b>. Carboxylic esters</b>	2007
<b>H07-A02B</b>	<b>. Polyalkylene glycols (PAGs), polyalkylene oxides, polyoxyalkylenes</b>	2007
<b>H07-A03</b>	<b>Olefin polymers, Group IV oils</b> Polyalphaolefins (PAO's).	2005
<b>H07-A04</b>	<b>Hydrocarbons</b> e.g. alkyl benzenes.	2005
<b>H07-B</b>	<b>MINERAL</b>	
<b>H07-B</b>	<b>General</b>	
<b>H07-B01</b>	<b>Hydroprocessed or Hydrocracked Mineral Oils</b> Extremely High Viscosity Index XHVI oils. Group II lubricants and Group III lubricants are by definition hydroprocessed /hydrocracked oils of specified viscosity ranges.	2005
<b>H07-C</b>	<b>GREASES</b>	
<b>H07-C</b>	<b>General</b>	
<b>H07-D</b>	<b>SOLID OR SEMISOLID LUBRICANTS</b>	
<b>H07-D</b>	<b>General</b>	
<b>H07-D11</b>	<b>Refrigeration lubricants</b> Replaced by H08-D11. All H07-D11 coded documents will be corrected to H08-D11.	2005-2007
<b>H07-E</b>	<b>LUBRICANTS USED IN THE GAS OR VAPOUR PHASE</b>	
<b>H07-E</b>	<b>General</b>	

<b>H07-F</b>	<b>LUBRICATION OF MACHINES</b> including lubricating devices.	
<b>H07-F</b>	<b>General</b>	
<b>H07-G</b>	<b>ADDITIVES</b> Includes additives used for speciality products given under H08-D.	
<b>H07-G01</b>	<b>Antioxidants, stabilisers</b>	
<b>H07-G02</b>	<b>Corrosion and rust inhibitors</b>	
<b>H07-G03</b>	<b>Detergents, dispersants</b>	
<b>H07-G04</b>	<b>Extreme pressure</b>	
<b>H07-G05</b>	<b>Pour depressants</b>	
<b>H07-G06</b>	<b>VI improvers</b>	
<b>H07-G07</b>	<b>Lubricity</b>	
<b>H07-G08</b>	<b>Multifunctional</b>	
<b>H07-G09</b>	<b>Other specified, but unclassified functions</b>	
<b>H07-G10</b>	<b>Biocidal</b>	2006
<b>H07-G</b>	<b>General</b>	
<b>H07-H</b>	<b>USED LUBE OILS AND SPECIALITY PRODUCTS, RECOVERY OR TREATMENT</b>	197031
<b>H07-H</b>	<b>General</b>	
<b>H07-J</b>	<b>TESTING OILS</b>	2002
<b>H07-J</b>	<b>General</b>	2002
<b>H07-K</b>	<b>MARKING OILS</b>	2002
<b>H07-K</b>	<b>General</b>	2002
<b>H07-L</b>	<b>LUBRICANT PRODUCTION</b> Includes lubricant additive production.	2006
<b>H07-L</b>	<b>General</b>	2006
<b>H07-X</b>	<b>OTHER LUBRICATION ASPECTS</b>	197031
<b>H07-X</b>	<b>Unclassified</b>	

## H08 OTHER PETROLEUM PRODUCTS

<b>H08-A</b>	<b>WAXES</b>	
<b>H08-A</b>	<b>General</b>	
<b>H08-B</b>	<b>ASPHALT</b>	
<b>H08-B</b>	<b>General</b> e.g. bitumen.	
<b>H08-C</b>	<b>RESIDUUM</b>	
<b>H08-C</b>	<b>General</b>	
<b>H08-D</b>	<b>SPECIALITY PRODUCTS</b>	
<b>H08-D01</b>	<b>White oils</b>	
<b>H08-D02</b>	<b>Antifreeze</b>	
<b>H08-D03</b>	<b>Solvents</b>	
<b>H08-D04</b>	<b>Cutting oils, emulsions (including those of non-petroleum origin)</b>	
<b>H08-D05</b>	<b>Hydraulic fluids (including those of non-petroleum origin)</b>	
<b>H08-D06</b>	<b>Textile oils</b>	
<b>H08-D07</b>	<b>Metalworking fluids</b> Until 200601, code entitled 'Rolling oils'. This code covers all metal working fluids including rolling oils since 200601.	2006
<b>H08-D08</b>	<b>Electrical insulating oils (including those of non-petroleum origin)</b> Includes electrorheological fluid.	1986
<b>H08-D09</b>	<b>Heat transfer fluids</b>	1986
<b>H08-D10</b>	<b>For lubrication of electrical components</b>	2005
<b>H08-D11</b>	<b>Refrigeration lubricants</b> Replaces H07-D11. All H07-D11 coded documents will be corrected to H08-D11. See also J07-A09.	2007
<b>H08-D12</b>	<b>Magnetorheological fluid</b>	2011
<b>H08-D</b>	<b>Speciality oils, unclassified/general</b>	
<b>H08-E</b>	<b>OTHER PRODUCTS</b>	
<b>H08-E01</b>	<b>Carbon black</b>	197031
<b>H08-E01A</b>	<b>. Activated carbon</b>	2002

<b>H08-E02</b>	<b>Petroleum coke</b>	197031
<b>H08-E03</b>	<b>Proteins</b>	197031
<b>H08-E04</b>	<b>Fuel cells</b> Scope covered by L03-E04 and X16-C codes.	197031-2005
<b>H08-E05</b>	<b>Surfactants, detergents</b>	197031
<b>H08-E06</b>	<b>(Unrefined) products used as binders</b>	197031
<b>H08-E07</b>	<b>Emulsifiers, foam regulators and wetting agents</b>	2005
<b>H08-E10</b>	<b>Biocidal</b>	2005
<b>H08-E</b>	<b>Other products, general/unclassified</b>	197031



## H09 FUELS NOT OF PETROLEUM ORIGIN

<b>H09-A</b>	<b>DESTRUCTIVE DISTILLATION OF CARBONACEOUS MATERIALS FOR GAS, TAR, COKE ETC.</b>	
<b>H09-A01</b>	<b>Coal hydrogenation, liquefaction, etc.</b>	1975
<b>H09-A01A</b>	<b>. In situ (underground) treatment of coal (combustion, liquefaction, etc.)</b>	1975
<b>H09-A02</b>	<b>Coke ovens, appts., operation, etc.</b>	1975
<b>H09-A02A</b>	<b>. Metallurgical coke production</b>	1975
<b>H09-A02B</b>	<b>. Handling and charging equipment</b> Includes discharging and quenching equipment.	1986
<b>H09-A</b>	<b>General and Unclassified</b>	
<b>H09-B</b>	<b>WORKING UP OF PEAT, PRODUCTION OF PYROLIGNEOUS ACID</b>	
<b>H09-B</b>	<b>General</b>	
<b>H09-C</b>	<b>PRODUCER GAS, WATER GAS, SYNTHESIS GAS PRODUCTION FROM SOLID CARBONACEOUS MATERIALS</b>	
<b>H09-C</b>	<b>General</b> e.g. gasification.	
<b>H09-D</b>	<b>TREATMENT OF GASES CONTAINING CO</b>	
<b>H09-D</b>	<b>General</b> e.g. coke oven gas treatment.	
<b>H09-E</b>	<b>ACETYLENE PRODUCTION BY DRY/WET METHODS</b> Including purification of fuels containing acetylene.	
<b>H09-E</b>	<b>General</b>	
<b>H09-F</b>	<b>OTHER FUELS AND THEIR TREATMENT</b> Including briquettes, firelighters, solidified fluid fuels general.	
<b>H09-F01</b>	<b>Briquettes, firelighters, solidified fluid fuels</b>	1986
<b>H09-F02</b>	<b>Industrial waste treatment</b>	1986

<b>H09-F03</b>	<b>Municipal and agricultural waste treatment</b>	1986
<b>H09-F04</b>	<b>Pyrolysis and catalytic treatment of polymers and waste plastic</b> e.g. to produce fuel oils and gases.	2002
<b>H09-F</b>	<b>General</b>	
<b>H09-G</b>	<b>COAL-FUEL SLURRIES</b> included in H09-X prior to 198601.	
<b>H09-G01</b>	<b>Oil-coal slurries</b>	1986
<b>H09-G02</b>	<b>Aqueous-coal slurries</b>	1986
<b>H09-G03</b>	<b>Additives</b>	1986
<b>H09-G</b>	<b>General</b>	1986
<b>H09-H</b>	<b>OTHER TREATMENT OF COAL</b>	
<b>H09-H01</b>	<b>Deashing</b>	1986
<b>H09-H02</b>	<b>Desulfurisation</b>	1986
<b>H09-H03</b>	<b>Coal additives</b>	2006
<b>H09-H04</b>	<b>Froth flotation</b>	2012
<b>H09-H</b>	<b>General and unclassified</b>	1986
<b>H09-X</b>	<b>OTHER NON-PETROLEUM FUELS AND PROCESSING</b>	
<b>H09-X</b>	<b>Unclassified</b>	

**J:**  
**CHEMICAL ENGINEERING**

- J01 Separation
- J02 Mixing, Crushing, Spraying
- J03 Electrochemical Processes,  
Electrophoresis
- J04 Chemical/Physical  
Processing/Apparatus
- J05 Boiling and Boiling Apparatus
- J06 Storing/Distributing  
Gases/Liquids
- J07 Refrigeration, Ice,  
Liquefaction/Solidification
- J08 Heat Transfer and Drying
- J09 Furnaces, Kilns, Ovens,  
Retorts

**J: CHEMICAL ENGINEERING**

Code commenced at CPI week 197031.

**J01 SEPARATION**

<b>J01-A</b>	<b>EVAPORATION, DISTILLATION, SUBLIMATION</b>	
<b>J01-A01</b>	<b>Evaporation</b>	
<b>J01-A02</b>	<b>Liquid-gas mass transfer, general</b>	
<b>J01-A02A</b>	. <b>Distillation</b>	1972
<b>J01-A02A1</b>	.. <b>Azeotropic or extractive distillation</b>	2002
<b>J01-A02A2</b>	.. <b>Distillation columns</b>	2002
<b>J01-A02A3</b>	.. <b>Column fittings, packings, plates, trays</b>	2002
<b>J01-A02A4</b>	.. <b>Other distillation apparatus</b>	2002
<b>J01-A02B</b>	. <b>Distillation methods and apparatus</b>	2005
<b>J01-A03</b>	<b>Condensation of vapours</b>	
<b>J01-A04</b>	<b>Sublimation</b>	
<b>J01-A</b>	<b>Unclassified</b>	
<b>J01-B</b>	<b>CRYSTALLISATION</b>	
<b>J01-B</b>	<b>General</b>	
<b>J01-C</b>	<b>SOLVENT EXTRACTION, DIALYSIS, OSMOSIS</b>	
<b>J01-C01</b>	<b>Solvent extraction (liquid-liquid extraction only)</b>	
<b>J01-C01A</b>	. <b>Solid-liquid extraction</b>	2015
<b>J01-C02</b>	<b>Displacing liquid by means of another fluid</b>	
<b>J01-C03</b>	<b>Semi-permeable membrane separation processes</b>	
<b>J01-C03A</b>	. <b>By reverse osmosis</b>	1986
<b>J01-C03B</b>	. <b>By dialysis</b>	1986
<b>J01-C03B1</b>	.. <b>By hemodialysis</b>	1986
<b>J01-C04</b>	<b>Micro-filters, ultra-filters and nano-filters</b>	2002
<b>J01-C</b>	<b>Unclassified</b>	

<b>J01-D</b>	<b>TREATING LIQUIDS</b>	
<b>J01-D01</b>	<b>With ad(ab)sorbents, general</b> Includes preparation and regeneration of ad(ab)sorbents	
<b>J01-D01A</b>	. <b>Chromatography</b>	1972
<b>J01-D02</b>	<b>(De)gasification of liquids</b>	
<b>J01-D03</b>	<b>Emulsion breaking, coagulation</b>	1972
<b>J01-D04</b>	<b>Ion exchange</b>	1972
<b>J01-D04A</b>	. <b>Regeneration of ion exchangers</b>	1994
<b>J01-D05</b>	<b>Removal of contaminant by complexing or chelation</b>	1994
<b>J01-D06</b>	<b>Catalytic decomposition</b>	2002
<b>J01-D07</b>	<b>Biological treatment</b>	2005
<b>J01-D08</b>	<b>Using electricity</b>	2011
<b>J01-D</b>	<b>Unclassified</b>	
<b>J01-E</b>	<b>TREATING GASES AND/OR VAPOURS</b>	
<b>J01-E01</b>	<b>Recovering volatile solvent vapours from gases</b> Includes drying of gases.	
<b>J01-E01A</b>	. <b>Dehumidification</b>	2006
<b>J01-E01B</b>	. <b>Deodorization</b>	2006
<b>J01-E02</b>	<b>Treating waste gases, general</b>	1972
<b>J01-E02A</b>	. <b>By wet scrubbing</b> Includes liquid ad(ab)sorbent preparation and regeneration.	1972
<b>J01-E02A1</b>	.. <b>Characterised by acidic/alkaline scrubbing liquid</b>	1977
<b>J01-E02A2</b>	.. <b>Characterised by redox/complexing scrubbing liquid</b>	1977
<b>J01-E02A3</b>	.. <b>Process control and arrangements</b>	1977
<b>J01-E02B</b>	. <b>With ad(ab)sorbents, general</b> Includes preparation and regeneration of ad(ab)sorbents.	1972

<b>J01-E02B1</b>	<b>.. Molecular sieves</b> Includes zeolites.	2006	<b>J01-E03C1</b>	<b>.. Molecular sieves</b> Includes zeolites.	2006
<b>J01-E02B2</b>	<b>.. Metal-organic frameworks</b>	2006	<b>J01-E03C2</b>	<b>.. Metal-organic frameworks</b>	2006
<b>J01-E02B3</b>	<b>.. Activated carbon</b>	2013	<b>J01-E03C3</b>	<b>.. Activated carbon</b>	2013
<b>J01-E02C</b>	<b>. With membranes or ion exchangers</b>	1977	<b>J01-E03D</b>	<b>. By pressure swing adsorption</b> Includes vacuum swing adsorption.	1986
<b>J01-E02C1</b>	<b>.. Ion transport membranes</b>	2005	<b>J01-E03E</b>	<b>. Using semi-permeable membrane</b>	1986
<b>J01-E02D</b>	<b>. By catalytic methods</b>	1977	<b>J01-E03F</b>	<b>. By catalytic methods</b>	1986
<b>J01-E02E</b>	<b>. Treating waste gases using dry reactive powder e.g. Ca(OH)<sub>2</sub></b>	1994	<b>J01-E03G</b>	<b>. Claus plant processes with removal of S</b>	1994
<b>J01-E02F</b>	<b>. Solid reagent complexing with gas</b>	1994	<b>J01-E03H</b>	<b>. By biological methods</b>	2005
<b>J01-E02G</b>	<b>. Ammonia</b>	1994	<b>J01-E03I</b>	<b>. Using UV ray</b>	2012
<b>J01-E02H</b>	<b>. By other means</b> e.g. plasma, bacterial or centrifugal method.	1994	<b>J01-E03J</b>	<b>. Temperature swing adsorption</b>	2013
<b>J01-E02H1</b>	<b>.. Using plasma</b>	2005	<b>J01-E</b>	<b>Unclassified</b>	
<b>J01-E02H2</b>	<b>.. Centrifugal methods</b>	2005	<b>J01-F</b>	<b>SEPARATION OF SUSPENDED PARTICLES FROM LIQUIDS</b>	
<b>J01-E02H3</b>	<b>.. By biological methods</b>	2005	<b>J01-F01</b>	<b>By sedimentation</b> Includes flotation techniques for clarifying liquids, precipitation or flocculation.	
<b>J01-E02H4</b>	<b>.. By combustion</b>	2006	<b>J01-F02</b>	<b>By filtration processes</b>	
<b>J01-E02H5</b>	<b>.. Using ozone</b>	2006	<b>J01-F02A</b>	<b>. Gravity filters; filter presses; pressure filters</b>	
<b>J01-E02H6</b>	<b>.. Using UV ray</b>	2012	<b>J01-F02B</b>	<b>. Cartridge filters; ultra filters</b>	
<b>J01-E02I</b>	<b>. Treating fuels with additives to reduce evolution of SO<sub>x</sub>+NO<sub>x</sub></b>	1994	<b>J01-F02C</b>	<b>. Filters with mobile filter elements</b> Has priority over J01-F02A and -F02B.	
<b>J01-E03</b>	<b>Gas separation, general</b>	1972	<b>J01-F02D</b>	<b>. Filtering devices</b> e.g. trivial uses, such as bath tubs or swimming pool filters.	
<b>J01-E03A</b>	<b>. Gas chromatography</b>	1972	<b>J01-F02E</b>	<b>. Filtering of magnetisable materials</b>	1994
<b>J01-E03B</b>	<b>. By wet scrubbing</b> Includes liquid ad(ab)sorbent preparation and regeneration.	1986	<b>J01-F02E1</b>	<b>.. Filtering of liquids by applying electrical charge</b>	1994
<b>J01-E03C</b>	<b>. Using ad(ab)sorbents, general</b> Includes preparation and regeneration of ad(ab)sorbents.	1986			

<b>J01-F02X</b>	. <b>For filtration of specific substances</b> May be used with other J01-F codes if specific method is claimed.	2006	<b>J01-G06</b>	<b>Wet scrubbing</b> Only for removal of particulates from gas, otherwise consider J01-E02A.	2006
<b>J01-F02X1</b>	.. <b>Water</b>	2006	<b>J01-G09</b>	<b>Other methods</b>	2006
<b>J01-F02X2</b>	.. <b>Blood</b>	2006	<b>J01-G</b>	<b>Unclassified</b>	
<b>J01-F02X3</b>	.. <b>Oil</b> Includes lubricants.	2006	<hr/>		
<b>J01-F02X4</b>	.. <b>Fuel</b>	2006	<b>J01-H</b>	<b>FILTERING MATERIALS</b>	
<b>J01-F02X5</b>	.. <b>Molten metal</b>	2012	<b>J01-H01</b>	<b>Regenerating filters</b>	1994
<b>J01-F03</b>	<b>By centrifugal processes</b>		<b>J01-H02</b>	<b>Filtering materials</b>	2005
<b>J01-F04</b>	<b>Dewatering e.g. sludge by compression between belts</b>	1994	<b>J01-H02A</b>	. <b>Filter materials for liquids treatment</b>	2005
<b>J01-F05</b>	<b>Magnetic or electrostatic separation</b>	2011	<b>J01-H02B</b>	. <b>Filter materials for gases treatment</b>	2005
<b>J01-F</b>	<b>Unclassified</b>		<b>J01-H02C</b>	. <b>With antibacterial effect</b> Replaces J01-H03. All J01-H03 coded documents will be corrected to J01-H02C.	2007
<hr/>			<b>J01-H03</b>	<b>With antibacterial effect</b> Replaced by J01-H02C. All J01-H03 coded documents will be corrected to J01-H02C.	2005-2006
<b>J01-G</b>	<b>SEPARATION OF DISPERSED PARTICLES FROM GASES/VAPOURS</b>		<b>J01-H</b>	<b>General</b>	
<b>J01-G01</b>	<b>Pre-treatment of gas or vapour</b>		<hr/>		
<b>J01-G02</b>	<b>By gravity, inertia, centrifugal force</b>		<b>J01-J</b>	<b>SEPARATION OF ISOTOPES</b>	
<b>J01-G03</b>	<b>By filtration</b> Includes filters making use of electricity and magnetism.		<b>J01-J</b>	<b>General</b>	
<b>J01-G03A</b>	. <b>Regeneration/cleaning of filters</b>	1977	<hr/>		
<b>J01-G03B</b>	. <b>Especially designed for waste gases</b>	1977	<b>J01-K</b>	<b>SOLID/SOLID SEPARATION</b>	
<b>J01-G03C</b>	. <b>For air inflow</b> e.g. vehicle air intake, clean room.	2006	<b>J01-K01</b>	<b>Solid separation using liquids, pneumatic tables, jigs</b>	
<b>J01-G04</b>	<b>Electrostatic and magnetic precipitation</b> Includes electrostatic filters.	1977	<b>J01-K02</b>	<b>Magnetic or electrostatic separation</b>	
<b>J01-G05</b>	<b>(De)gassing powders and other solids</b>	1972	<b>J01-K03</b>	<b>Flotation; differential sedimentation</b>	
			<b>J01-K04</b>	<b>Sieving, screening, etc. (by gas currents). etc.</b>	
			<b>J01-K</b>	<b>Unclassified</b> Includes solid-solid separation by leaching.	
			<hr/>		
			<b>J01-L</b>	<b>CENTRIFUGAL APPARATUS</b>	
			<b>J01-L01</b>	<b>Centrifuges</b>	
			<b>J01-L02</b>	<b>Free vortex flow apparatus; cyclones</b>	
			<b>J01-L</b>	<b>Unclassified</b>	

<b>J01-X</b>	<b>OTHER SEPARATION PROCESSES AND APPLICATIONS</b>	
<b>J01-X</b>	<b>General and unclassified</b>	
<b>J01-X01</b>	<b>Contaminants and their removal methods</b> e.g. for soil.	2006
<b>J01-X01A</b>	. <b>Removal of organic contaminants</b>	2005
<b>J01-X01B</b>	. <b>Removal of inorganic contaminants</b>	2005
<b>J01-X01C</b>	. <b>Removal by biological methods</b>	2005
<b>J01-X02</b>	<b>Separation of racemates</b>	2005

## J02 MIXING, CRUSHING, SPRAYING

<b>J02-A</b>	<b>MIXING, DISPERSING ETC.</b>	
<b>J02-A01</b>	<b>Mixing processes</b>	
<b>J02-A02</b>	<b>Mixing apparatus, general</b>	
<b>J02-A02A</b>	. <b>Flow mixers</b>	1972
<b>J02-A02B</b>	. <b>Rotary mixers</b>	1972
<b>J02-A02C</b>	. <b>Mixer accessories</b>	2002
<b>J02-A03</b>	<b>Emulsification/dispersion</b> Until 200601, code entitled 'Emulsifying or dispersing agents' This code has now been expanded to include subcodes for processes (J02-A03A), apparatus (J02-A03B) and agents (J02-A03C).	
<b>J02-A03A</b>	. <b>Processes</b> From 2006 this code has been narrowed to specifically code emulsification or dispersion processes. Prior to 2006 this code covered emulsification/dispersion in general.	2002
<b>J02-A03B</b>	. <b>Apparatus</b>	2006
<b>J02-A03C</b>	. <b>Agents</b>	2006
<b>J02-A</b>	<b>Unclassified</b>	
<b>J02-B</b>	<b>CRUSHING, PULVERISING DISINTEGRATING</b>	
<b>J02-B01</b>	<b>Plant in general</b>	
<b>J02-B02</b>	<b>Processes in general</b>	
<b>J02-B03</b>	<b>Accessories</b>	
<b>J02-B</b>	<b>Unclassified</b>	
<b>J02-C</b>	<b>SPRAYING ATOMISING, APPLYING LIQUIDS TO SURFACES</b>	
<b>J02-C01</b>	<b>Spraying, atomising; nozzles, in general</b>	
<b>J02-C02</b>	<b>Applying (semi-) liquids to surfaces, in general</b>	
<b>J02-C</b>	<b>Unclassified</b>	
<b>J02-X</b>	<b>OTHER MIXING, CRUSHING AND SPRAYING</b> Includes dosing and dispensing devices.	

**J02-X**                      **Unclassified**

**J03**                      **ELECTROCHEMICAL  
PROCESSES,  
ELECTROPHORESIS**

<b>J03-A</b>	<b>ELECTROCHEMICAL PROCESSES OR APPARATUS</b>	
<b>J03-A01</b>	<b>For ozone generation</b>	<b>2006</b>
<b>J03-A</b>	<b>General</b> e.g. ozone generation.	
<b>J03-B</b>	<b>ELECTROLYTIC PROCESSES OR APPARATUS</b> See also X25-R codes for electrical aspects of electrolysis.	
<b>J03-B01</b>	<b>Electrodes</b> Including manufacture and coating.	<b>1972</b>
<b>J03-B02</b>	<b>Cell design</b>	<b>1972</b>
<b>J03-B03</b>	<b>Separators</b>	<b>1977</b>
<b>J03-B03A</b>	<b>Ion exchange membranes based on fluorocarbon polymers</b>	<b>1986</b>
<b>J03-B04</b>	<b>Alkali halide electrolysis</b>	<b>1986</b>
<b>J03-B05</b>	<b>Electrolyte</b>	<b>2011</b>
<b>J03-B09</b>	<b>General electrolytic processes</b>	<b>2005</b>
<b>J03-B</b>	<b>General and unclassified</b> See also X25-R codes for electrical aspects of electrolysis.	
<b>J03-C</b>	<b>ELECTROPHORESIS</b>	
<b>J03-C</b>	<b>General</b>	
<b>J03-D</b>	<b>ELECTRODIALYSIS</b>	
<b>J03-D</b>	<b>General</b>	<b>1972</b>
<b>J03-D01</b>	<b>Electro-osmosis</b>	<b>1994</b>
<b>J03-X</b>	<b>OTHER ELECTROCHEMICAL METHODS</b>	
<b>J03-X</b>	<b>Unclassified</b>	

## J04 CHEMICAL/PHYSICAL PROCESSES/APPARATUS

<b>J04-A</b>	<b>COLLOID CHEMISTRY, ETC.</b>	
<b>J04-A01</b>	<b>Catalysis processes and apparatus</b> Use J04-E+ from 197701.	1970-1976
<b>J04-A02</b>	<b>Catalysts</b> Use J04-E+ from 197701.	1970-1976
<b>J04-A03</b>	<b>Colloid chemistry</b> For production of nanoparticles (sols) see J04-F02A.	
<b>J04-A04</b>	<b>Single crystals</b>	
<b>J04-A05</b>	<b>Granulation, pelleting</b>	
<b>J04-A06</b>	<b>Encapsulation</b>	
<b>J04-A07</b>	<b>Powder coatings</b> For general coatings, consider M13-H if formed on metal or L02-J03 if involving ceramics.	
<b>J04-A</b>	<b>Unclassified</b>	
<b>J04-B</b>	<b>LABORATORY APPARATUS AND METHODS</b>	
<b>J04-B01</b>	<b>Analytical methods/equipment, general</b>	
<b>J04-B01A</b>	. <b>Spectral</b> Includes techniques such as NMR, ESR and mass spectrometry.	1972
<b>J04-B01A1</b>	.. <b>Mass spectrometry</b>	2006
<b>J04-B01A2</b>	.. <b>Optical spectroscopy</b> Includes cellular imaging.	2006
<b>J04-B01B</b>	. <b>Specific reactions and reagents</b>	1972
<b>J04-B01B1</b>	.. <b>Sugar e.g. for diabetes monitoring</b>	2005
<b>J04-B01B2</b>	.. <b>For alcohol</b>	2006
<b>J04-B01C</b>	. <b>Chromatography</b>	1977
<b>J04-B01C1</b>	.. <b>Thin Layer Chromatography (TLC)</b> See also S03-E09C3.	2005

<b>J04-B01C2</b>	.. <b>High Performance Liquid Chromatography (HPLC)</b> See also S03-E09C5.	2005
<b>J04-B01C5</b>	.. <b>Gas Chromatography (GC)</b> See also S03-E09C1.	2005
<b>J04-B01C5A</b>	... <b>GC-MS</b>	2006
<b>J04-B01C6</b>	.. <b>Liquid chromatography-mass spectrometry (LC-MS)</b>	2013
<b>J04-B02</b>	<b>Lab-on-chip (LOC)</b> See also S03-H01 codes.	2005
<b>J04-B03</b>	<b>Detection and analysis of nucleic acids, proteins and amino acids</b> See also S03-E14H codes.	2005
<b>J04-B04</b>	<b>Microanalysis</b> Includes microfluidic analysis. May be used with other J04-B codes, and S03 codes likely.	2006
<b>J04-B05</b>	<b>Biosensor</b> See also S03-E03C1.	2011
<b>J04-B</b>	<b>Laboratory apparatus, general</b>	
<b>J04-C</b>	<b>TEST, CONTROL AND SAMPLING, INDUSTRIAL AND LABORATORY</b>	
<b>J04-C01</b>	<b>Sampling</b>	
<b>J04-C02</b>	<b>Investigation by properties</b> E.g. determination of pressure, temperature, concentration, pH, etc.	
<b>J04-C02A</b>	. <b>pH Monitoring</b> See also S03-F10 codes.	2005
<b>J04-C02B</b>	. <b>Electrical</b> E.g. resistance, conductivity, capacitance etc. See also S03-E02 codes. From 2006 the title of this code has been changed from 'Conductivity' to 'Electrical' though the content of the code has not changed.	2005
<b>J04-C02C</b>	. <b>Optical</b> e.g. absorption, fluorescence.	2006
<b>J04-C02D</b>	. <b>Mechanical properties e.g. creep resistance</b>	2007
<b>J04-C03</b>	<b>Investigation by method</b> E.g. monitoring of reactions.	



<b>J04-C04</b>	<b>Investigation by material</b>		<b>J04-E08</b>	<b>Apparatus for liquid, gas/liquid processes</b>	2002
<b>J04-C04A</b>	. <b>Gas sensors</b> See also S03-E02, S03-E03, S03-E14P codes.	2005	<b>J04-E08A</b>	. <b>Apparatus for homogeneous phases, solutions</b>	2002
<b>J04-C</b>	<b>General and unclassified</b>		<b>J04-E08B</b>	. <b>Columns; counter-current reactions</b>	2002
<b>J04-D</b>	<b>FLUIDISED BED APPARATUS</b>	1972-2002	<b>J04-E08B1</b>	.. <b>Apparatus for reactive or catalytic distillation</b>	2002
<b>J04-D</b>	<b>General</b> Not used from 2002 Wk01; scope is now covered by J04-E07A and J04-X03A.	1972-2002	<b>J04-E09</b>	<b>Other apparatus for catalytic processes</b>	2002
<b>J04-E</b>	<b>CATALYSIS</b> See also J04-A, and N codes for catalysts, catalytic processes and applications		<b>J04-E09A</b>	. <b>Waste treatment apparatus</b>	2005
<b>J04-E01</b>	<b>Catalytic processes</b>	1977	<b>J04-E09B</b>	. <b>For sensor applications</b>	2006
<b>J04-E02</b>	<b>Apparatus for catalytic processes</b> Not used from 2002 Wk01; scope is now covered by J04-(E06-09).	1977-2002	<b>J04-E09C</b>	. <b>Photocatalytic apparatus</b> See J04-E04C for photocatalysts per se.	2006
<b>J04-E03</b>	<b>Catalyst supports</b>	1977	<b>J04-E10</b>	<b>Testing of catalysts and devices</b>	2006
<b>J04-E04</b>	<b>Catalysts</b>	1977	<b>J04-E11</b>	<b>Catalyst production</b> Includes catalyst support production.	2007
<b>J04-E04A</b>	. <b>Redox</b>	1977	<b>J04-E</b>	<b>Unclassified</b>	1977
<b>J04-E04B</b>	. <b>(De)hydrogenation</b>	1977	<b>J04-F</b>	<b>MICROSCALAR PROCESSES</b>	
<b>J04-E04C</b>	. <b>Photocatalysts</b>	2005	<b>J04-F01</b>	<b>Microprocesses</b> See J04-X04 for microreactors.	2006
<b>J04-E04D</b>	. <b>Electrocatalyst</b> e.g. for electrode catalysts, for use in electrolyzer, fuel cell etc.	2006	<b>J04-F02</b>	<b>Nanostructure production</b> See L02-H04 if carbon is involved.	2006
<b>J04-E05</b>	<b>Regeneration/recovery</b> Also includes waste or spent catalyst disposal methods/apparatus.	1977	<b>J04-F02A</b>	. <b>Nanoparticles</b>	2006
<b>J04-E06</b>	<b>Reactors - general or unclassified</b>	2002	<b>J04-F02A1</b>	.. <b>Composite particles</b> Includes coated particles.	2006
<b>J04-E07</b>	<b>Apparatus for gas phase reactions</b>	2002	<b>J04-F02B</b>	. <b>Other regular forms</b> e.g. nanotubes, nanorods, nanowhiskers.	2006
<b>J04-E07A</b>	. <b>Fluidized or moving beds, risers</b>	2002	<b>J04-F02C</b>	. <b>Nanofilms</b>	2006
<b>J04-E07B</b>	. <b>Fixed beds</b>	2002	<b>J04-F02D</b>	. <b>Nanocrystals</b>	2012
<b>J04-E07C</b>	. <b>Tubular, tube bundles</b>	2002	<b>J04-F</b>	<b>Unclassified</b>	

<b>J04-X</b>	<b>OTHER CHEMICAL METHODS</b> Used for all processes and apparatus of chemical interest with no specific application elsewhere in CPI	
<b>J04-X01</b>	<b>Reactors for plasma processes</b>	1994
<b>J04-X02</b>	<b>Forming films by Langmuir-Blodgett processes</b>	1994
<b>J04-X03</b>	<b>Reactors for non-catalytic chemical processes</b>	2002
<b>J04-X03A</b>	<b>. Fluidised bed apparatus</b>	2006
<b>J04-X04</b>	<b>Miniaturised reaction apparatus</b> Includes microfluidic devices, MEMS devices, see also relevant U12-B03F codes for MEMS. See J04-F01 for microprocesses.	2002
<b>J04-X05</b>	<b>Gas generators</b>	2012
<b>J04-X</b>	<b>Unclassified</b>	

## J05 BOILING AND BOILING APPARATUS

**J05-A BOILING AND BOILING APPARATUS**

**J05-A General**

## J06 STORING/DISTRIBUTING GASES/LIQUIDS

**J06-A GAS HOLDERS OF VARIABLE CAPACITY**

**J06-A General**

**J06-B VESSELS FOR LIQUIDS OR COMPRESSED, LIQUEFIED OR SOLIDIFIED GASES, GAS-HOLDERS, DECANTATION AND VAPORISATION OF LIQUEFIED OR SOLIDIFIED GASES**

**J06-B01 Pressure vessels**

**J06-B02 Vessels not under pressure**

**J06-B03 Filling vessels with gases**

**J06-B04 Discharging gases from pressure vessels**

**J06-B05 Discharging gases from vessels not under pressure**

**J06-B06 Gas solvents and gas adsorbents**

**J06-B06A . For batteries and fuel cells**

For supplying hydrogen specifically for fuel cells.

2005

**J06-B06B . For vehicle fuel tanks**

For H<sub>2</sub>/CH<sub>4</sub> powered IC engines (i.e. not fuel cells).

2005

**J06-B06C . Gas adsorbents**

2006

**J06-B06C1 .. Molecular sieves**

Includes zeolites.

2006

**J06-B06C2 .. Metal-organic frameworks**

2006

**J06-B06C3 .. Alloys**

2013

**J06-B07 Vessel details**

**J06-B08 Control**

Includes controlling flow rates, thermal energy management, safety arrangements etc.

2007

**J06-B General and unclassified**

<b>J06-C</b>	<b>PIPE SYSTEMS, PIPELINES</b>
<b>J06-C01</b>	<b>Pipeline systems; pipe construction</b>
<b>J06-C02</b>	<b>Supervising or controlling operations</b>
<b>J06-C</b>	<b>General and unclassified</b>

## **J07 REFRIGERATION, ICE, LIQUEFACTION/SOLIDIFICATION**

<b>J07-A</b>	<b>REFRIGERATION MACHINES, PLANTS OR SYSTEMS, COMBINED HEATING AND REFRIGERATION SYSTEMS</b>
<b>J07-A01</b>	<b>Compression type</b>
<b>J07-A02</b>	<b>Sorption type</b>
<b>J07-A03</b>	<b>Other types having single mode of operation, combination of heating and refrigeration; special energy sources</b> Includes heat pumps.
<b>J07-A04</b>	<b>Components</b>
<b>J07-A05</b>	<b>Arrangements</b>
<b>J07-A06</b>	<b>Control and safety devices</b>
<b>J07-A07</b>	<b>Air conditioners</b> Includes humidifiers. <span style="float: right;">1972</span>
<b>J07-A08</b>	<b>Refrigeration media</b> <span style="float: right;">1972</span>
<b>J07-A09</b>	<b>Lubricants for refrigeration media</b> See also H08-D11. <span style="float: right;">1994</span>
<b>J07-A10</b>	<b>Refrigeration and a/c sealants</b> Injecting into systems to seal pinholes. Includes e.g. organosilanes. <span style="float: right;">2007</span>
<b>J07-A</b>	<b>General and Unclassified</b>
<b>J07-B</b>	<b>FREEZING OF (SEMI)LIQUIDS</b>
<b>J07-B01</b>	<b>Ice production</b>
<b>J07-B02</b>	<b>Ice or snow production for special purposes</b>
<b>J07-B03</b>	<b>Ice working and distribution</b>
<b>J07-B</b>	<b>General and unclassified</b>
<b>J07-C</b>	<b>REFRIGERATORS, COOLING AND FREEZING APPARATUS</b>
<b>J07-C01</b>	<b>Devices not associated with refrigerating machinery</b>
<b>J07-C02</b>	<b>Devices associated with refrigerating machinery</b>
<b>J07-C03</b>	<b>Structural parts of general application, etc.</b>
<b>J07-C</b>	<b>General and unclassified</b> e.g. domestic use, such as cold stores and cold boxes.

<b>J07-D</b>	<b>GAS LIQUEFACTION, SOLIDIFICATION OR SEPARATION BY PRESSURE OR COLD</b>
<b>J07-D01</b>	<b>Liquefying or solidifying gases</b>
<b>J07-D02</b>	<b>Separating gases by liquefaction or solidification</b>
<b>J07-D03</b>	<b>Cold exchangers or accumulators</b>
<b>J07-D</b>	<b>General and unclassified</b>

## **J08 HEAT TRANSFER AND DRYING**

<b>J08-A</b>	<b>STEAM OR VAPOUR CONDENSERS</b>
<b>J08-A01</b>	<b>Steam or vapour separated from coolant by walls</b>
<b>J08-A02</b>	<b>Steam or vapour comes in direct contact with coolant</b>
<b>J08-A03</b>	<b>Employing combination of above two; other condensers</b>
<b>J08-A04</b>	<b>Combinations of two or more condensers</b>
<b>J08-A05</b>	<b>Auxiliary systems, arrangements or devices</b>
<b>J08-A06</b>	<b>Controlling arrangements especially for condensers</b>
<b>J08-A</b>	<b>General and unclassified</b>
<b>J08-B</b>	<b>DIRECT-CONTACT (NON-INTERACTIVE) HEAT-EXCHANGERS</b>
<b>J08-B01</b>	<b>Direct-contact trickle coolers e.g. cooling towers.</b>
<b>J08-B02</b>	<b>Other direct-contact heat-exchange apparatus</b>
<b>J08-B</b>	<b>General and unclassified</b>
<b>J08-C</b>	<b>HEAT-EXCHANGERS WITHOUT DIRECT CONTACT</b>
<b>J08-C01</b>	<b>Having stationary conduit assemblies for one medium only, the media contacting different sides of conduit wall</b>
<b>J08-C02</b>	<b>As above, but stationary conduits for both media</b>
<b>J08-C03</b>	<b>Having moving conduit assemblies</b>
<b>J08-C04</b>	<b>Employing intermediate heat-transfer media or bodies Includes heat pipes.</b>
<b>J08-C</b>	<b>General and unclassified</b>
<b>J08-D</b>	<b>HEAT TRANSFER APPARATUS, DETAILS OF GENERAL APPLICATIONS</b>
<b>J08-D01</b>	<b>Elements for heat exchangers</b>
<b>J08-D02</b>	<b>Preventing deposits or corrosion</b>
<b>J08-D03</b>	<b>Special features</b>
<b>J08-D04</b>	<b>Modifying heat transfer</b>

<b>J08-D05</b>	<b>Control arrangements</b>			<b>J08-H02</b>	<b>Through air drying</b>	2007
<b>J08-D06</b>	<b>Heat transfer media</b>	1972		<b>J08-H</b>	<b>General and unclassified</b>	
<b>J08-D07</b>	<b>Geothermal heat transfer</b>	1994		<b>J08-S</b>	<b>HEAT STORAGE</b>	
<b>J08-D08</b>	<b>Heat exchange from exhaust gases</b>	1994		<b>J08-S01</b>	<b>. Materials</b>	2011
<b>J08-D</b>	<b>General and unclassified</b> Includes solar heat collectors not codable elsewhere.			<b>J08-S02</b>	<b>. Apparatus</b>	2011
<b>J08-E</b>	<b>HEAT-EXCHANGER FOR CLEANING</b>			<b>J08-S</b>	<b>General and unclassified</b>	2011
<b>J08-E01</b>	<b>Appliances for cleaning</b>					
<b>J08-E02</b>	<b>Processes for cleaning</b>					
<b>J08-E03</b>	<b>Details of cleaning</b>					
<b>J08-E</b>	<b>General and unclassified</b>					
<b>J08-F</b>	<b>DRYING PROCESSES</b>					
<b>J08-F01</b>	<b>Preliminary treatment of solids/objects to aid drying</b>					
<b>J08-F02</b>	<b>Drying solids with application of heat</b>					
<b>J08-F03</b>	<b>Drying solids without application of heat</b>					
<b>J08-F04</b>	<b>Freeze drying</b> e.g. sublimation drying.	1972				
<b>J08-F05</b>	<b>Compression drying</b>	2007				
<b>J08-F</b>	<b>General and Unclassified</b>					
<b>J08-G</b>	<b>DRYING MACHINES AND APPARATUS</b>					
<b>J08-G01</b>	<b>Articles at rest or locally agitated</b>					
<b>J08-G02</b>	<b>With non-progressive movement</b>					
<b>J08-G03</b>	<b>With progressive movement</b>					
<b>J08-G04</b>	<b>Combination of at least two of above kinds</b>					
<b>J08-G05</b>	<b>Rotary dryers</b>	1972				
<b>J08-G06</b>	<b>Spray dryers</b>	1972				
<b>J08-G07</b>	<b>Compression dryers</b>	2007				
<b>J08-G</b>	<b>General and unclassified</b>					
<b>J08-H</b>	<b>DRYING, GENERAL APPLICATIONS</b>					
<b>J08-H01</b>	<b>Drying using air or gas currents</b>					

## J09 FURNACES, KILNS, OVENS, RETORTS

<b>J09-A</b>	<b>FURNACE CONSTRUCTION</b> Excluding processes therein.	
<b>J09-A01</b>	<b>Furnaces with stationary charge</b>	
<b>J09-A02</b>	<b>Stationary furnaces with mechanically-moved charge</b>	
<b>J09-A03</b>	<b>Rotary furnaces</b>	
<b>J09-A04</b>	<b>Open sintering apparatus</b>	
<b>J09-A</b>	<b>General and unclassified</b>	
<b>J09-B</b>	<b>FURNACE ACCESSORIES</b>	
<b>J09-B01</b>	<b>Construction features</b>	
<b>J09-B01A</b>	. <b>Refractories</b>	2002
<b>J09-B02</b>	<b>Handling and support charge</b> e.g. rams, screw feeders, etc.	
<b>J09-B03</b>	<b>Preheating charge; cooling; using waste heat</b>	
<b>J09-B04</b>	<b>Control and safety devices</b> Includes measuring and testing devices.	
<b>J09-B</b>	<b>General and unclassified</b>	
<b>J09-C</b>	<b>INCINERATION AND OTHER WASTE DISPOSAL METHODS</b> Includes disposal of waste gases, liquids and solids not codable elsewhere.	1975
<b>J09-C</b>	<b>General</b>	
<b>J09-C01</b>	<b>Disposal of waste other than by incineration</b>	1994
<b>J09-C01A</b>	. <b>Recycling of waste</b>	2006
<b>J09-C01B</b>	. <b>Fermentation of waste</b> e.g. for compost. Consider H09-F code if fermentation for fuel, and D05 for details.	2006
<b>J09-C02</b>	<b>By incineration</b>	2005
<b>J10-A</b>	<b>STORAGE OF WASTES IN LANDFILLS</b>	
<b>J10-A</b>	<b>Storage of wastes in landfills</b>	1994

**K:  
NUCLEONICS, EXPLOSIVES,  
PROTECTION**

- K01 Firefighting
- K02 Protection, Breathing  
Apparatus
- K03 Explosive Charges, Blasting
- K04 Explosives, Matches
- K05 Nuclear Reactors
- K06 Nuclear Power Plant
- K07 Health Physics
- K08 Nucleonics, X-Ray  
Techniques, etc
- K09 Applications

## K: NUCLEONICS, EXPLOSIVES, PROTECTION

Code commenced at CPI 197031.

### K01 FIREFIGHTING

**K01-A** **FIREFIGHTING, FIRE-EXTINGUISHING COMPOSITIONS**  
Does not include flame retardants.

**K01-A** **General**

### K02 PROTECTION, BREATHING APPARATUS

**K02-A** **PROTECTION AGAINST NBC AGENTS**

**K02-A** **General**

**K02-A01** **Chemical** 2005

**K02-A02** **Biological** 2005

**K02-A03** **Nuclear** 2005

**K02-A04** **Detection and analysis of NBC agents** 2006

**K02-B** **BREATHING APPARATUS (CHEMICAL AGENTS ONLY)**

**K02-B** **General**

### K03 EXPLOSIVE CHARGES, BLASTING

Covers physical and mechanical aspects of explosives and ammunition.

**K03-A** **EXPLOSIVE CHARGES, AMMUNITION, MISSILES, FUSES**

**K03-A01** **Cartridge, shell, bomb and mine construction, filling and manufacture** 1972

**K03-A02** **Projectiles and warheads** 1972

**K03-A02A** **Lethal projectiles**  
e.g. bullets, missiles. 2006

**K03-A02B** **Non-lethal projectiles**  
e.g. plastic baton rounds, tranquilizer delivery systems, paintballs, immobilising weapons. 2006

**K03-A03** **Arming, fusing, safety mechanisms**  
Include storage and packaging of ammunition. 1972

**K03-A04** **Decommissioning of ammunition** 2006

**K03-A** **Unclassified**

**K03-B** **BLASTING**

**K03-B** **General**

**K03-X** **EXPLOSIVE CHARGES**

**K03-X** **General**



**K04 EXPLOSIVES, MATCHES**

<b>K04-A</b>	<b>EXPLOSIVES (CHEMICAL ASPECTS)</b> Use K04-E+, K04-F+ and K04-G+ from 198601. 1970-1985
<b>K04-A01</b>	<b>Based on inorganic nitrates</b> 1970-1985
<b>K04-A02</b>	<b>Based on (per)chlorates</b> 1970-1985
<b>K04-A03</b>	<b>Sprengel-type</b> 1970-1985
<b>K04-A04</b>	<b>Manufacture and treatment</b> 1970-1985
<b>K04-A</b>	<b>Unclassified</b> 1970-1985
<b>K04-B</b>	<b>DETONATORS, PYROPHORIC COMPOSITIONS</b>
<b>K04-B01</b>	<b>Detonating or primer compositions; (non)-electric detonators; primers; fuses, blasting-caps, and accessories</b>
<b>K04-B02</b>	<b>Chemical contact igniters; chemical lighters; pyrophoric compositions; flints</b>
<b>K04-B</b>	<b>Unclassified</b>
<b>K04-C</b>	<b>FIREWORKS, SMOKE GENERATION, INCENDIARY AND GAS ATTACK COMPOSITIONS, GENERATION OF GAS FOR BLASTING OR PROPULSION</b>
<b>K04-C01</b>	<b>Rocket fuels, propellants</b> 1972
<b>K04-C02</b>	<b>Gas generators</b> e.g. for automotive air bags. 2006
<b>K04-C</b>	<b>Others</b> Includes chemical inflation of liferafts, etc.
<b>K04-D</b>	<b>MATCHES</b> Includes matchbox making machinery, etc.
<b>K04-D</b>	<b>General</b>
<b>K04-E</b>	<b>EXPLOSIVES (CHEMICAL ASPECTS)</b> See K04-A+: prior to 198601
<b>K04-E01</b>	<b>Emulsion, water gel, slurry explosives, general + unclassified</b> 1986
<b>K04-E01A</b>	<b>. Based on nitrate oxidiser</b> 1986

<b>K04-E01A1</b>	<b>.. ANFO</b> 1986
<b>K04-E01B</b>	<b>. Based on (per)chlorate oxidiser</b> 1986
<b>K04-E02</b>	<b>Organic nitro compound-containing explosives</b> Nitrocellulose, nitroglycerine, nitroglycol, TNT etc. but excluding propellants containing NG; see K04-C01. 1986
<b>K04-E03</b>	<b>Explosives containing inorganic or organometallic compounds</b> Including lead azide, lead styphnate etc. 1986
<b>K04-E04</b>	<b>Promoters, enhancers and regulatory sequences</b> 1986
<b>K04-E</b>	<b>General</b> 1986
<b>K04-F</b>	<b>EXPLOSIVES MANUFACTURE/TREATMENT</b> See K04-A04 prior to 198601
<b>K04-F</b>	<b>Explosives treatment, general + unclassified</b> 1986
<b>K04-F01</b>	<b>Explosives manufacture</b> 2002
<b>K04-F02</b>	<b>Explosives disposal</b> 2002
<b>K04-F03</b>	<b>Explosives detection</b> E.g. in luggage 2002
<b>K04-G</b>	<b>NOVEL ADDITIVES FOR EXPLOSIVE COMPSNS.</b> (Sensitisers, stabilisers, density control agents, etc.) see K04-A prior to week 198601.
<b>K04-G</b>	<b>General</b> 1986

**K05 NUCLEAR REACTORS**

<b>K05-A</b>	<b>REACTOR PROCESSES</b>	
<b>K05-A01</b>	<b>Fast fission</b>	
<b>K05-A02</b>	<b>Thermal</b>	
<b>K05-A02A</b>	. <b>Gas-cooled</b>	
<b>K05-A02B</b>	. <b>Water-cooled</b>	
<b>K05-A02C</b>	. <b>Liquid metal cooled</b>	
<b>K05-A03</b>	<b>Nuclear fusion reactors</b>	1986
<b>K05-A03A</b>	. <b>Plasma containment</b>	1986
<b>K05-A03B</b>	. <b>Fusion targets (fuel)</b>	1986
<b>K05-A03C</b>	. <b>Constructional features</b> Including blanket arrangements.	1986
<b>K05-A</b>	<b>Unclassified</b> Including controlled fusion reactors prior to 198601.	
<b>K05-B</b>	<b>REACTOR COMPONENTS AND ACCESSORIES</b>	
<b>K05-B01</b>	<b>Pressure vessels</b>	
<b>K05-B02</b>	<b>Shielding</b>	
<b>K05-B03</b>	<b>Coolants, general</b>	
<b>K05-B03A</b>	. <b>Liquid metal coolants</b>	1972
<b>K05-B04</b>	<b>Fuel elements - general</b>	
<b>K05-B04A</b>	. <b>Chemical processes; enrichment of U</b> Includes some extraction of U, Pu etc. from their ores.	1972
<b>K05-B04B</b>	. <b>Fuel element construction</b>	1972
<b>K05-B05</b>	<b>Moderators, general</b>	
<b>K05-B05A</b>	. <b>Heavy water; enrichment, deuterium production</b>	1972
<b>K05-B06</b>	<b>Control and mechanisms, general</b>	
<b>K05-B06A</b>	. <b>Neutron flux control, control rods, general</b>	1972
<b>K05-B06A1</b>	.. <b>Shutdown and start-up procedures</b>	1986
<b>K05-B06A2</b>	.. <b>Emergency control</b>	1986

<b>K05-B06B</b>	. <b>Measurement/control of coolant flow</b>	1986
<b>K05-B06C</b>	. <b>Defective fuel rod location/detection</b>	1986
<b>K05-B06D</b>	. <b>Measurement of other operating parameters</b>	1986
<b>K05-B07</b>	<b>Accessories</b> Covers accessories of general or unspecified application; specific accessories are coded according to their use under a K05-B: code.	
<b>K05-B07A</b>	. <b>Fuel rod handling/transfer</b>	1986
<b>K05-B07B</b>	. <b>Used fuel storage facilities</b>	1986
<b>K05-B07C</b>	. <b>Waste removal/treatment</b> e.g. desalting condensate.	1986
<b>K05-B07D</b>	. <b>Servicing/maintenance apparatus</b>	1986
<b>K05-B07E</b>	. <b>Cables, piping, connectors</b>	1986
<b>K05-B07E1</b>	.. <b>Valves</b>	2002
<b>K05-B07F</b>	. <b>Pumps</b>	1986
<b>K05-B07G</b>	. <b>Other components</b>	1986
<b>K05-B07J</b>	. <b>Inspection apparatus</b>	2006
<b>K05-B08</b>	<b>Manufacture of reactor and components</b>	2012
<b>K05-B10</b>	<b>Materials for reactors and components</b>	2005
<b>K05-B</b>	<b>Unclassified</b>	

**K06 NUCLEAR POWER PLANT**

<b>K06-A</b>	<b>STEAM RAISING PLANT</b>
<b>K06-A</b>	<b>General</b>
<b>K06-B</b>	<b>HEAT EXCHANGERS</b>
<b>K06-B</b>	<b>General</b>
<b>K06-C</b>	<b>RECOVERY OF FUEL, ETC.</b>
<b>K06-C</b>	<b>General</b>
<b>K06-X</b>	<b>OTHER NUCLEAR PLANT ASPECTS</b> Includes thermoelectric converters.
<b>K06-X</b>	<b>General</b>

**K07 HEALTH PHYSICS**

<b>K07-A</b>	<b>PROTECTIVE MEASURES, MONITORING, SHIELDING, CLOTHING ETC.</b>
<b>K07-A01</b>	<b>Personal dosimeters</b> 1972
<b>K07-A01A</b>	. <b>Industrial monitoring</b> 2002
<b>K07-A02</b>	<b>Shielding, general</b> 1986
<b>K07-A02A</b>	. <b>Transport/storage containers</b> 1994 <i>Previous code(s): K07-A02</i>
<b>K07-A02B</b>	. <b>Fall-out shelters</b> 1994
<b>K07-A02C</b>	. <b>Shielding plants and equipment</b> 2002
<b>K07-A02D</b>	. <b>Shielding personnel</b> 2002
<b>K07-A03</b>	<b>Decontamination of industrial sites</b> 1986
<b>K07-A03A</b>	. <b>Decontamination of personnel/clothing</b> 2002
<b>K07-A</b>	<b>Others</b>
<b>K07-B</b>	<b>RADIOACTIVE WASTE TREATMENT, ETC.</b>
<b>K07-B</b>	<b>General</b>
<b>K07-B01</b>	<b>Concentration, solidification, encapsulation</b> 1986
<b>K07-B01A</b>	. <b>Preparation for long-term storage</b> 1986
<b>K07-B02</b>	<b>Waste gas treatment</b> 1986
<b>K07-B03</b>	<b>Waste liquid treatment</b> 2002
<b>K07-X</b>	<b>OTHER PROTECTIVE AND WASTE TREATMENT TECHNIQUES AND APPARATUS</b>
<b>K07-X</b>	<b>General</b>

## **K08 NUCLEONICS, X-RAY TECHNIQUES, ETC.**

<b>K08-A</b>	<b>NUCLEAR OR X-RAY MEASUREMENT</b>	
<b>K08-A</b>	<b>General</b> E.g. detection.	
<b>K08-A01</b>	<b>Neutron counters</b>	1972
<b>K08-A02</b>	<b>Charged particle counters</b>	2005
<b>K08-A03</b>	<b>Gamma ray and cosmic ray counters</b>	2005
<b>K08-A04</b>	<b>X-ray measurement</b>	2005
<b>K08-B</b>	<b>CONVERSION OF CHEMICAL ELEMENTS, PRODUCING/MODERATING NEUTRONS</b>	
<b>K08-B</b>	<b>General</b>	
<b>K08-C</b>	<b>ENERGY FROM RADIOACTIVE SOURCES, UTILISING COSMIC RADIATION</b>	
<b>K08-C</b>	<b>General</b>	
<b>K08-D</b>	<b>NUCLEAR EXPLOSIVES</b> Includes nuclear explosion simulation.	
<b>K08-D</b>	<b>General</b>	
<b>K08-E</b>	<b>X-RAY TECHNIQUES</b>	
<b>K08-E</b>	<b>General</b>	
<b>K08-E01</b>	<b>X-ray imaging</b>	2005
<b>K08-E02</b>	<b>X-ray therapy or treatment</b>	2005
<b>K08-F</b>	<b>PLASMA TECHNIQUES</b>	
<b>K08-F</b>	<b>General</b>	
<b>K08-G</b>	<b>PARTICLE ACCELERATORS AND CYCLOTRONS</b>	2002
<b>K08-G</b>	<b>General</b>	2002
<b>K08-H</b>	<b>IRRADIATION</b>	2002
<b>K08-H</b>	<b>General</b>	2002
<b>K08-H01</b>	<b>Medical</b>	2002

<b>K08-H02</b>	<b>Food</b>	2002
<b>K08-X</b>	<b>OTHER NUCLEAR TECHNIQUES</b> Includes general isotope separation.	
<b>K08-X</b>	<b>General</b>	
<b>K08-X01</b>	<b>Isotope separation</b>	2006

## **K09 APPLICATIONS**

<b>K09-A</b>	<b>PLASTICS</b>	
<b>K09-A</b>	<b>General</b>	
<b>K09-B</b>	<b>MEDICINE</b>	
<b>K09-B</b>	<b>General</b>	
<b>K09-B01</b>	<b>Imaging, use of isotopes, tracers</b>	2005
<b>K09-B02</b>	<b>Radiotherapy</b>	2005
<b>K09-C</b>	<b>AGRICULTURE</b>	
<b>K09-C</b>	<b>General</b>	
<b>K09-D</b>	<b>FOOD</b>	
<b>K09-D</b>	<b>General</b>	
<b>K09-D01</b>	<b>Irradiation</b> E.g. to improve shelf-life.	2005
<b>K09-D02</b>	<b>Testing</b>	2005
<b>K09-E</b>	<b>RADIOCHEMISTRY</b>	
<b>K09-E</b>	<b>General</b>	
<b>K09-F</b>	<b>TEXTILES</b>	
<b>K09-F</b>	<b>General</b>	
<b>K09-G</b>	<b>PHOTOGRAPHY</b>	
<b>K09-G</b>	<b>General</b>	
<b>K09-H</b>	<b>PETROLEUM</b>	
<b>K09-H</b>	<b>General</b>	
<b>K09-J</b>	<b>METALLURGY</b>	
<b>K09-J</b>	<b>General</b>	
<b>K09-K</b>	<b>GENERAL ENGINEERING</b>	
<b>K09-K</b>	<b>General</b>	
<b>K09-L</b>	<b>CONTROL GEAR ENGINEERING</b>	
<b>K09-L</b>	<b>General</b>	
<b>K09-X</b>	<b>OTHER NUCLEAR APPLICATIONS</b>	
<b>K09-X</b>	<b>General</b>	

**L:**  
**GLASS, CERAMICS,**  
**ELECTRO(IN)ORGANICS**

- L01 Glass, Vitreous Enamels
- L02 Refractories, Ceramics,  
Cement
- L03 Electro-(in)organics
- L04 Semiconductors

## L: GLASS, CERAMICS, ELECTRO(IN)ORGANICS

Code commenced at CPI 197031.

### L01 GLASS, VITREOUS ENAMELS

L01 Glass, vitreous enamels, general  
1986

#### L01-A CHEMICAL COMPOSITIONS

L01-A01 Alkalis and alkaline earths,  
general

L01-A01A . Soda lime glasses  
1972

L01-A01B . Other alkali(ne earth) glasses  
(more than 5%)  
1972

L01-A01C . Containing minor amounts  
alkali (less than 5%)  
1972

L01-A02 Pd, Pt and rare earths

L01-A02A . Lanthanide-containing glass  
2005

L01-A02B . Platinum and palladium  
containing glass  
2005

L01-A03 Other metals, general

L01-A03A . Alumina-bearing glasses  
1972

L01-A03B . Colouring oxide additions  
1972

L01-A03C . Other modifying oxides  
Oxides of all metals of groups Ib,  
IIb, III, IV, Vb, VIb, VIIb and VIII,  
but oxides for modifying  
borate/borosilicate glasses - see  
L01-A06B, L01-A06D.  
1972

L01-A03C1 .. Lead oxide  
1986

L01-A03C2 .. Zinc oxide  
1986

L01-A04 0-50% silica

L01-A05 50-100% silica

L01-A06 Borate and borosilicate, general

L01-A06A . Unmodified borate  
1972

L01-A06B . Modified borate (modified  
with non-metallic compounds  
and oxides of transition metals)  
1972

L01-A06C . Unmodified borosilicate  
1972

L01-A06D . Modified borosilicate  
(modified with non-metallic  
compounds and oxides of  
transition metals)  
1972

L01-A07 Other non-metals, general

L01-A07A . Oxide network formers  
(oxides of P and group Va, VIa  
and VIIa metals)  
1972

L01-A07B . Non-oxide glasses (sulfates,  
phosphides, halides,  
chalcogenides)  
1972

L01-A08 Glass ceramics, crystallised glass  
compositions

L01-A09 Glass composition with special  
properties e.g. luminescent glass  
2012

L01-A Unclassified  
including vitreous alloys.

#### L01-B TREATMENT OF BATCH

L01-B General

L01-B01 Preparation of precursors for  
glass  
1972

L01-B02 Reuse/recycling of glass  
2006

#### L01-C GLASS MANUFACTURE (REPLACING FURNACE)

L01-C01 For general application

L01-C02 Design and construction of  
melting tanks

L01-C03 Operation, working and control  
of melting tanks

L01-C04 Glass delivery from melting tank

L01-C05 Crucibles  
1986

L01-C06 Glass manufacture by sol-gel  
process  
1986

L01-C Unclassified  
Including crucibles for glass  
melting.

#### L01-D FORMING FLAT GLASS

L01-D01 Drawing glass from the melt

L01-D02 Rolling and casting glass

<b>L01-D03</b>	<b>Forming glass in contact with a liquid surface, general (float glass production)</b>		<b>L01-F03F</b>	<b>. Optical fibre preform manufacture</b>	1986
<b>L01-D03A</b>	. Bath chamber		<b>L01-F03F1</b>	.. Core and sheath composition	1986
<b>L01-D03B</b>	. Glass treatment in the chamber		<b>L01-F03F2</b>	.. Glass soot manufacture and deposition on core or sheath	1986
<b>L01-D03C</b>	. Thickness control		<b>L01-F03F3</b>	.. Depositing glass films on core or sheath Except L01-F03F2.	1986
<b>L01-D04</b>	<b>Wire reinforced glass sheet manufacture</b>	1986	<b>L01-F03F4</b>	.. Fibre preform manufacture using preformed sheath and core rod	1986
<b>L01-D05</b>	<b>Glass sheet manufacture by sol-gel process</b>	1986	<b>L01-F03F5</b>	.. Organic coatings	2002
<b>L01-D</b>	<b>Unclassified</b> Including wire reinforced glass.		<b>L01-F03F6</b>	.. Inorganic coatings	2002
<b>L01-E</b>	<b>FORMING HOLLOW-WARE</b>		<b>L01-F03F7</b>	.. Optical and other coatings	2002
<b>L01-E01</b>	<b>General</b>	1970-1985	<b>L01-F03G</b>	. Optical fibre drawing and/or spinning	1986
<b>L01-E02</b>	<b>Gob formation</b> Including cutting, jets.		<b>L01-F03H</b>	. Optical fibre cutting and joining	1986
<b>L01-E03</b>	<b>Blowing glass</b> Including blow moulding.		<b>L01-F03J</b>	. Multicore and elliptical single core optical fibre manufacture	1986
<b>L01-E04</b>	<b>Pressing glass</b>		<b>L01-F03K</b>	. Apparatus for manufacturing optical fibres	1986
<b>L01-E05</b>	<b>Moulding glass</b>		<b>L01-F03L</b>	. Optical fibre cable manufacture	1986
<b>L01-E06</b>	<b>Moulds</b>		<b>L01-F03M</b>	. Optical fibres, general	1986
<b>L01-E07</b>	<b>Transfer mechanisms</b>	1972	<b>L01-F04</b>	<b>Shaping glass to special forms</b>	
<b>L01-E08</b>	<b>Shaping glass manufactured by sol-gel process</b>	1986	<b>L01-F05</b>	<b>Shaping glass manufactured by sol gel process</b>	1986
<b>L01-E</b>	<b>Unclassified</b>		<b>L01-F06</b>	<b>Vapour deposition of glass to form layers</b>	1986
<b>L01-F</b>	<b>OTHER FORMING PROCESSES</b>		<b>L01-F07</b>	<b>Foamed glass</b>	1986
<b>L01-F01</b>	<b>General</b>	1970-1985	<b>L01-F</b>	<b>Unclassified</b> Including glass manufacture by methods other than melting and casting, and sintering; especially foamed glass manufacture. Also includes radioactive waste disposal in glass.	
<b>L01-F02</b>	<b>Tube, rod and cylinder formation</b>				
<b>L01-F03</b>	<b>Glass fibre manufacture</b>				
<b>L01-F03A</b>	. Surface treatment				
<b>L01-F03A1</b>	.. Coating optical glass fibres	1986			
<b>L01-F03B</b>	. Nozzles for fibre formation	1972			
<b>L01-F03C</b>	. Ancillary equipment	1972			
<b>L01-F03D</b>	. Forming rovings (fibre twisting, plaiting)	1972			
<b>L01-F03E</b>	. Post forming Including cutting fibre mat.	1972			



<b>L01-G</b>	<b>POST FORMING TREATMENT</b>		<b>L01-G05</b>	<b>Surface modification (not mechanical)</b> Includes colouring, titurisation etc.	
<b>L01-G01</b>	<b>General</b>		<b>L01-G05A</b>	<b>. Doping glass surface</b> e.g. to change refractive index for wave guides.	<b>1986</b>
<b>L01-G01A</b>	<b>. Transfer and handling</b>	<b>1972</b>	<b>L01-G05B</b>	<b>. Patterning glass</b>	<b>2011</b>
<b>L01-G02</b>	<b>Annealing, sintering</b>		<b>L01-G05C</b>	<b>. Etching</b> Includes glass frosting.	<b>2011</b>
<b>L01-G03</b>	<b>Thermal and chemical toughening</b>		<b>L01-G06</b>	<b>Mechanical surface treatment</b>	
<b>L01-G04</b>	<b>Surface coating of glass</b>		<b>L01-G07</b>	<b>Cutting of flat glass</b>	
<b>L01-G04A</b>	<b>. Coating glass bottles</b>	<b>1986</b>	<b>L01-G08</b>	<b>Cutting of glass other than flat</b>	
<b>L01-G04B</b>	<b>. Coating glass sheet with organic material</b>	<b>1986</b>	<b>L01-G09</b>	<b>Decorating glass</b> Including special colouring.	
<b>L01-G04C</b>	<b>. Coating glass sheet with inorganic material</b>	<b>1986</b>	<b>L01-G10</b>	<b>Bending glass</b>	
<b>L01-G04C1</b>	<b>.. Coating glass sheet with metallic material</b>	<b>2011</b>	<b>L01-G11</b>	<b>Cleaning glass</b>	<b>2010</b>
<b>L01-G04D</b>	<b>. Coating optical components</b>	<b>1986</b>	<b>L01-G</b>	<b>Unclassified</b>	
<b>L01-G04E</b>	<b>. Coating glass tableware</b>	<b>1986</b>	<b>L01-H</b>	<b>JOINING GLASS</b>	
<b>L01-G04F</b>	<b>. Coating techniques</b>	<b>2010</b>	<b>L01-H01</b>	<b>General</b>	<b>1970-1985</b>
<b>L01-G04F1</b>	<b>.. PVD, CVD and sputtering</b>	<b>2010</b>	<b>L01-H02</b>	<b>Laminated glass</b> Specific laminates covered by codes in L01-H03 to L01-H09 sections take preference over this code.	
<b>L01-G04F2</b>	<b>.. Other coating methods</b>		<b>L01-H03</b>	<b>Joining glass by soldering/welding</b> From 2011 this code is expanded to include welding e.g. ultrasonic welding. Includes sealing and soldering glass.	
<b>L01-G04F2A</b>	<b>... Electrostatic coating</b>	<b>2011</b>	<b>L01-H03A</b>	<b>. Glass to glass</b>	<b>2011</b>
<b>L01-G04F2B</b>	<b>... Spin coating</b>	<b>2011</b>	<b>L01-H03B</b>	<b>. Glass to plastic/polymers</b>	<b>2011</b>
<b>L01-G04F2C</b>	<b>... Sol gel coating</b>	<b>2011</b>	<b>L01-H03C</b>	<b>. Glass to ceramic</b>	<b>2011</b>
<b>L01-G04G</b>	<b>. Coating other glass forms</b> Includes tubes and unspecified forms	<b>2011</b>	<b>L01-H03D</b>	<b>. Glass to metals</b>	<b>2011</b>
<b>L01-G04G1</b>	<b>.. Coating glass with organic materials</b> See L01-G04B for coating glass sheet with organic material.	<b>2011</b>	<b>L01-H03E</b>	<b>. Glass to semiconductors e.g. silicon</b>	<b>2011</b>
<b>L01-G04G2</b>	<b>.. Coating glass with inorganic materials</b> See L01-G04C for coating glass sheet with inorganic material.	<b>2011</b>	<b>L01-H03X</b>	<b>. Glass to other materials</b> Includes wood, paper etc.	<b>2011</b>
<b>L01-G04G3</b>	<b>.. Coating glass with metallic materials</b> See L01-G04C1 for coating glass sheet with metallic material.	<b>2011</b>			

<b>L01-H04</b>	<b>Joining glass by fusion</b> Includes thermal, thermocompression bonding, hot isostatic pressing. Exclude vitreous enamelling which is coded in L01-H06.		<b>L01-H07X</b>	<b>. Glass to other materials</b> Includes wood, paper etc.	2011
<b>L01-H04A</b>	<b>. Glass-metal seals</b>	1986	<b>L01-H08</b>	<b>Glazes</b>	1972
<b>L01-H04B</b>	<b>. Joining glass to ceramics</b>	1986	<b>L01-H09</b>	<b>Other bonding methods</b>	2011
<b>L01-H04C</b>	<b>. Glass to glass</b>	2011	<b>L01-H09A</b>	<b>. Glass to glass</b>	2011
<b>L01-H04D</b>	<b>. Glass to plastic/polymers</b>	2011	<b>L01-H09B</b>	<b>. Glass to plastic/polymers</b>	2011
<b>L01-H04E</b>	<b>. Glass to semiconductors e.g. silicon</b>	2011	<b>L01-H09C</b>	<b>. Glass to ceramic</b>	2011
<b>L01-H04X</b>	<b>. Glass to other materials</b> Includes wood, paper etc.	2011	<b>L01-H09D</b>	<b>. Glass to metals</b>	2011
<b>L01-H05</b>	<b>To other material with interlayer</b> e.g. of plastics.		<b>L01-H09E</b>	<b>. Glass to semiconductors e.g. silicon</b>	2011
<b>L01-H05A</b>	<b>. Glass-plastic seals</b> Including (sealing) double glazing units.	1994	<b>L01-H09X</b>	<b>. Glass to other materials</b> Includes wood, paper etc.	2011
<b>L01-H05B</b>	<b>. Glass to glass</b>	2011	<b>L01-H</b>	<b>Unclassified</b>	
<b>L01-H05C</b>	<b>. Glass to ceramic</b>	2011	<b>L01-J</b>	<b>FINISHED PRODUCT HANDLING</b>	
<b>L01-H05D</b>	<b>. Glass to metals</b>	2011	<b>L01-J01</b>	<b>General</b>	1970-1985
<b>L01-H05E</b>	<b>. Glass to semiconductors e.g. silicon</b>	2011	<b>L01-J02</b>	<b>Quality control</b>	
<b>L01-H05X</b>	<b>. Glass to other materials</b> Includes wood, paper etc.	2011	<b>L01-J03</b>	<b>Filling glass containers</b>	
<b>L01-H06</b>	<b>Vitreous enamelling</b>		<b>L01-J04</b>	<b>Packing and storage</b>	
<b>L01-H07</b>	<b>By sealants</b> Including adhesives.		<b>L01-J</b>	<b>Unclassified</b>	
<b>L01-H07A</b>	<b>. Glass to glass</b>	2011	<b>L01-K</b>	<b>GLASS CERAMICS</b>	
<b>L01-H07B</b>	<b>. Glass to plastic/polymers</b>	2011	<b>L01-K01</b>	<b>General</b>	1970-1985
<b>L01-H07C</b>	<b>. Glass to ceramic</b>	2011	<b>L01-K02</b>	<b>Process and apparatus</b>	
<b>L01-H07D</b>	<b>. Glass to metals</b>	2011	<b>L01-K03</b>	<b>Applications</b>	
<b>L01-H07E</b>	<b>. Glass to semiconductors e.g. silicon</b>	2011	<b>L01-K</b>	<b>Unclassified</b>	
			<b>L01-L</b>	<b>APPLICATIONS OF GLASS</b>	
			<b>L01-L01</b>	<b>Building</b>	
			<b>L01-L02</b>	<b>Vehicles</b>	
			<b>L01-L03</b>	<b>Laboratory</b>	
			<b>L01-L04</b>	<b>Electrical and electronic</b>	
			<b>L01-L05</b>	<b>Optical</b> Including fibres.	
			<b>L01-L06</b>	<b>Packaging</b> Including bottling, etc.	
			<b>L01-L07</b>	<b>Medicinal/Dental uses</b>	2002

<b>L01-L08</b>	<b>Household/office use</b> Includes tableware, furniture etc.	<b>2010</b>
<b>L01-L</b>	<b>Unclassified</b>	
<b>L01-M</b>	<b>TESTING OF GLASS</b> Includes all measuring during processing of glass.	<b>2005</b>

## **L02 REFRACTORIES, CERAMICS, CEMENT**

The heading "Cements" (L02-C) refers to the chemical composition and preparation of hydraulic inorganic materials prior to addition of water. The heading "Concretes" (L02-D) refers to the same materials after addition of water despite the fact that they are often called "cements" when in the wet state.

<b>L02</b>	<b>Refractories, ceramics, cement general</b>	<b>1986</b>
<b>L02-A</b>	<b>MANUFACTURING METHODS, EQUIPMENT</b>	
<b>L02-A01</b>	<b>General</b>	
<b>L02-A02</b>	<b>Raw material preparation and treatment</b> Including powder, paste or slurry production, calcination and presintering of powders.	
<b>L02-A02A</b>	. <b>Sol gel techniques</b> Ceramic manufacture by sol gel.	<b>1994</b>
<b>L02-A02B</b>	. <b>PVD, CVD and sputtering techniques</b> e.g. to form diamond films.	<b>1994</b>
<b>L02-A02C</b>	. <b>Foaming</b> Includes forming porous ceramics. For lightweight concretes, see L02-D03.	<b>2011</b>
<b>L02-A03</b>	<b>Shaping, drying</b> Including slip casting, clay extrusion, pressing, moulding.	
<b>L02-A03A</b>	. <b>Mould release agent</b>	<b>2011</b>
<b>L02-A04</b>	<b>Sintering, firing, hot-pressing, hot extrusion</b> Including kiln furniture.	
<b>L02-A05</b>	<b>Melting and casting</b> Including fusion of ceramics, but see L02-A03 for slip casting.	
<b>L02-A06</b>	<b>Flame and plasma spraying</b>	
<b>L02-A07</b>	<b>Decorating and glazing</b>	
<b>L02-A08</b>	<b>Testing/control</b>	
<b>L02-A09</b>	<b>Single crystal growing (ceramics)</b>	<b>1972</b>
<b>L02-A10</b>	<b>Cleaning</b>	<b>2010</b>
<b>L02-A11</b>	<b>Cutting/welding</b>	<b>2010</b>

<b>L02-A12</b>	<b>Surface treatment</b> Includes etching, marking, engraving and polishing.	2010	<b>L02-D</b>	<b>MORTARS, CONCRETES</b>	
<b>L02-A13</b>	<b>Ceramic waste treatment/reuse/recycling</b>	2011	<b>L02-D01</b>	<b>Mortars and plasters</b> Including stuccos, grouts, trowellable mortars, mine filling compsns.	
<b>L02-A14</b>	<b>Nanomaterials</b>	2011	<b>L02-D02</b>	<b>Heavy concretes; apparatus for manufacture of concrete, mixers, shuttering, mould release agents, lubricants</b>	
<b>L02-A</b>	<b>Unclassified</b>		<b>L02-D03</b>	<b>Light concretes</b> e.g. containing pore formers.	
<b>L02-B</b>	<b>PREPARATION OF MATERIALS</b> Include novel compositions and treatment of these materials.		<b>L02-D04</b>	<b>Prefabricated concrete</b> Concrete articles, pipes, blocks, autoclaving equipment.	
<b>L02-B01</b>	<b>Lime(stone)</b>		<b>L02-D04A</b>	. <b>Compositions</b>	1986
<b>L02-B02</b>	<b>Magnesia and dolomite</b>		<b>L02-D04B</b>	. <b>Methods</b>	1986
<b>L02-B03</b>	<b>Slags</b>		<b>L02-D04C</b>	. <b>Apparatus</b>	1986
<b>L02-B04</b>	<b>By-products of lime and magnesia</b>		<b>L02-D04D</b>	. <b>Products</b>	1986
<b>L02-B05</b>	<b>Expanded clay</b>	1972	<b>L02-D05</b>	<b>Reinforced and pre-stressed concretes and mortars</b> Steel and glass fibre reinforced and pre-stressed concretes. From 2010 this code has been expanded to include reinforced and pre-stressed mortars.	
<b>L02-B06</b>	<b>Other clays</b>	1972	<b>L02-D06</b>	<b>Concretes made with special fillers (based on Portland cement only)</b>	
<b>L02-B07</b>	<b>Asbestos</b> Including disposal of waste products.	1972	<b>L02-D07</b>	<b>Concretes and artificial stone (other than from Portland cement)</b>	
<b>L02-B08</b>	<b>Mineral fibres</b> e.g. from ceramic oxides, ores, rocks.	1972	<b>L02-D07A</b>	. <b>Gypsum products</b> Including plaster board, plaster modelling.	1977
<b>L02-B</b>	<b>Unclassified</b>		<b>L02-D07B</b>	. <b>Resin concretes</b>	1977
<b>L02-C</b>	<b>CEMENTS</b>		<b>L02-D08</b>	<b>Testing methods</b>	
<b>L02-C01</b>	<b>General</b>	1970-1986	<b>L02-D09</b>	<b>Artificial floors and surfaces</b> Road, paving, sporting surfaces and floors and their subgrades. Includes artificial roofing.	
<b>L02-C02</b>	<b>Portland; apparatus for manufacture of cements from raw materials</b>		<b>L02-D10</b>	<b>Bitumastic compositions</b>	1972
<b>L02-C03</b>	<b>Portland clinker, Pozzuolanic, slag and waste product</b>		<b>L02-D11</b>	<b>Asbestos and mineral fibre products</b>	1972
<b>L02-C04</b>	<b>Magnesium</b> Includes magnesium compounds.		<b>L02-D12</b>	<b>Soil consolidation</b>	
<b>L02-C05</b>	<b>Calcium sulphate</b>				
<b>L02-C06</b>	<b>Complex for special purposes</b>				
<b>L02-C07</b>	<b>Alumina (5% alumina)</b>	1972			
<b>L02-C08</b>	<b>Cement additives</b>	1972			
<b>L02-C</b>	<b>Unclassified</b>				

<b>L02-D12A</b>	. <b>Cementing and sealing compositions for oil and gas wells</b> See also H01-C02B.	2005	<b>L02-D15</b>	<b>Sound and thermal insulation</b> Including acoustic and thermal insulation based on inorganic materials, fire protecting panels.	1972
<b>L02-D13</b>	<b>Aggregates</b>	1972	<b>L02-D15A</b>	. <b>Fire resistance boards, blocks, blankets etc.</b> Includes all products.	1986
<b>L02-D13A</b>	. <b>Fillers</b> e.g. fly ash etc.	1994	<b>L02-D15A1</b>	.. <b>Fireproof materials</b>	2011
<b>L02-D14</b>	<b>Concrete additives and coatings</b> Include additives for mortars.	1972	<b>L02-D15B</b>	. <b>Thermal and acoustic insulating boards</b>	1986
<b>L02-D14A</b>	. <b>Concrete set accelerators, retarders, activators</b>	1986	<b>L02-D15C</b>	. <b>Thermal and acoustic insulating flexible sheeting</b>	1986
<b>L02-D14B</b>	. <b>Concrete strengthening additives</b>	1986	<b>L02-D15D</b>	. <b>Thermal and acoustic insulating material compositions</b>	1986
<b>L02-D14C</b>	. <b>Frost resistance imparting additives</b>	1986	<b>L02-D15E</b>	. <b>Other thermal and acoustic insulating products</b>	2011
<b>L02-D14D</b>	. <b>Water reducing additives (to reduce amount of water needed for making concrete)</b>	1986	<b>L02-D</b>	<b>Unclassified</b>	
<b>L02-D14E</b>	. <b>Plasticising and fluidising additives</b>	1986	<b>L02-E</b>	<b>REFRACTORIES</b> Acid refractories are considered as more acid than mullite or forsterite, basic refractories, more basic than mullite or forsterite. Neutral refractories include intermediate acidity materials such as Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , carbides, nitrides, etc.	
<b>L02-D14F</b>	. <b>Polymeric additives</b>	1986	<b>L02-E01</b>	<b>General</b>	
<b>L02-D14G</b>	. <b>Corrosion inhibiting agents</b>	2012	<b>L02-E02</b>	<b>Fireclay and diatomaceous</b>	
<b>L02-D14H</b>	. <b>Biological additives e.g. fungicides</b>	2012	<b>L02-E03</b>	<b>Acid</b>	
<b>L02-D14M</b>	. <b>Polymeric and organic coatings and impregnants for concrete</b>	1986	<b>L02-E04</b>	<b>Basic</b>	
<b>L02-D14N</b>	. <b>Inorganic coatings and impregnants for concrete</b>	1986	<b>L02-E05</b>	<b>Mouldables, castables and coatings</b>	
<b>L02-D14P</b>	. <b>Decorative coatings and additives for concretes</b>	1986	<b>L02-E06</b>	<b>Core materials</b> Includes refractory hot tops, linings and blast furnace tap hole seals.	
<b>L02-D14Q</b>	. <b>Water permeability retarding layers and additives</b>	1986	<b>L02-E07</b>	<b>Carbon and carbon-contg.</b> Takes precedence over L02-E03 and L02-E04.	
<b>L02-D14R</b>	. <b>Paints</b>	1994	<b>L02-E08</b>	<b>Fused and cast</b>	
<b>L02-D14S</b>	. <b>Antifoaming additive</b>	2011	<b>L02-E</b>	<b>Unclassified</b>	
			<b>L02-F</b>	<b>ABRASIVES (INCLUDING FRICTION MATERIALS FOR CLUTCHES AND BRAKES)</b>	1994

<b>L02-F01</b>	<b>General (including binders)</b> 1994	<b>L02-G01D</b>	. <b>Zirconia</b> Includes zirconates. 2002
<b>L02-F02</b>	<b>Rouges</b> Including oxides other than L02-F04.	<b>L02-G01E</b>	. <b>Titania</b> Includes titanates. 2006
<b>L02-F03</b>	<b>Carbides, silicides, nitrides</b> Including abrasive tools using these materials.	<b>L02-G01F</b>	. <b>Zinc oxides</b> 2006
<b>L02-F04</b>	<b>Harsh oxides (Moh's hardness &gt;6)</b>	<b>L02-G01M</b>	. <b>Mixed metal oxides</b> Includes metallates. 2006
<b>L02-F05</b>	<b>Carbon</b>	<b>L02-G01M1</b>	.. <b>Metal titanates</b> 2006
<b>L02-F05A</b>	. <b>Diamond</b> Including abrasive tools using diamond. 2002	<b>L02-G01X</b>	. <b>Other inorganic oxides</b> 2006
<b>L02-F05B</b>	. <b>Graphite</b> 2002	<b>L02-G02</b>	<b>Heavy clay products</b>
<b>L02-F05C</b>	. <b>Carbon fibres</b> 2002	<b>L02-G03</b>	<b>Whiteware</b>
<b>L02-F06</b>	<b>Automotive uses</b> 2002	<b>L02-G03A</b>	. <b>Porcelains</b> Including dental porcelains. 1972
<b>L02-F</b>	<b>Unclassified</b>	<b>L02-G03A1</b>	.. <b>Prostheses, hydroxyapatite, artificial bone</b> 2002
<b>L02-G</b>	<b>OXIDE CERAMICS</b>	<b>L02-G04</b>	<b>Colours</b>
<b>L02-G01</b>	<b>Inorganic Oxides</b> Includes materials and products made therefrom, e.g. catalyst supports, molecular sieves, filters, diaphragms and membranes. For preparation methods see L02-G12. Until 200601 code entitled "General".	<b>L02-G05</b>	<b>Electrical insulators</b> Including preparation of mica, mica sheet, insulators for power lines, ceramic substrates and ceramic encapsulating compositions.
<b>L02-G01A</b>	. <b>Alumina</b> Includes aluminates, aluminosilicates, zeolites. See L02-G11 for production. 2002	<b>L02-G06</b>	<b>Thermal and acoustic insulators</b> Including thermal insulating material prepared by firing a ceramic only. For all other thermal insulating material see L02-D15.
<b>L02-G01B</b>	. <b>Silica</b> 2002	<b>L02-G07</b>	<b>Electronic ceramics, general</b> Novel oxides for electrical purposes, prepn. methods of conventional oxides. Ferroelastic materials are coded with ferroelectric materials.
<b>L02-G01B1</b>	.. <b>Metal silicates</b> 2006	<b>L02-G07A</b>	. <b>Magnetic compositions</b> 1972
<b>L02-G01C</b>	. <b>Rare earth oxides</b> Until 200601, code entitled 'yttria' After 200601 this code is the general code representing 'rare earth oxides' whereas specific codes L02-G01C1 now represents 'yttria' and L02-G01C2 represents 'ceria'. 2002	<b>L02-G07B</b>	. <b>Piezoelectrics</b> 1972
<b>L02-G01C1</b>	.. <b>Yttria</b> 2006	<b>L02-G07C</b>	. <b>High permittivity compositions</b> 1972
<b>L02-G01C2</b>	.. <b>Ceria</b> 2006	<b>L02-G07D</b>	. <b>Resistive oxide compositions, semiconductive oxide compositions</b> See L03-B01A for zinc oxide based ceramic varistors. 1972
		<b>L02-G07E</b>	. <b>Conductive ceramics</b> 2002

<b>L02-G08</b>	<b>Wear resistant ceramics, lubricants</b> Including friction materials and artificial and natural oxide gemstones.		<b>L02-G</b>	<b>Unclassified</b> Including 'technical' ceramics.	
<b>L02-G09</b>	<b>Nuclear ceramics</b>		<b>L02-H</b>	<b>NON-OXIDE CERAMICS</b>	
<b>L02-G10</b>	<b>Ceramics for optical purposes, general</b>		<b>L02-H01</b>	<b>General</b>	
<b>L02-G10A</b>	. <b>Luminescent and fluorescent compositions</b>	1972	<b>L02-H02</b>	<b>Carbides, borides, nitrides, silicides, (general)</b>	
<b>L02-G10B</b>	. <b>Laser compositions</b>	2010	<b>L02-H02A</b>	. <b>Carbides</b>	1972
<b>L02-G11</b>	<b>Alumina preparation (from raw materials)</b> Includes production of aluminates, aluminosilicates, zeolites.	1972	<b>L02-H02B</b>	. <b>Borides, nitrides, silicides</b>	1972
<b>L02-G12</b>	<b>Other oxide preparation</b> For manufacture of materials and products made therefrom. See L02-G01 for claimed materials and products. L02-B01 (calcia), L02-B02 (magnesia), L02-G07 (conductive oxides), L02-G11 (alumina, aluminosilicates, zeolite) take preference. This code (and subcodes) have always been used for preparation of oxides.	1972	<b>L02-H02B1</b>	.. <b>Borides</b>	1972
<b>L02-G12A</b>	. <b>Titania</b> Includes titanates.	2006	<b>L02-H02B2</b>	.. <b>Nitrides</b>	1972
<b>L02-G12B</b>	. <b>Zirconia</b> Includes zirconates.	2006	<b>L02-H02B3</b>	.. <b>Silicides</b>	1972
<b>L02-G12C</b>	. <b>Zinc oxides</b>	2006	<b>L02-H03</b>	<b>Sulfides, phosphides (novel compositions only)</b>	
<b>L02-G12D</b>	. <b>Rare earth oxides</b>	2006	<b>L02-H04</b>	<b>Carbon and graphite, general</b> See also J04-F.	
<b>L02-G12D1</b>	.. <b>Yttria</b>	2006	<b>L02-H04A</b>	. <b>Carbon fibres</b>	1972
<b>L02-G12D2</b>	.. <b>Ceria</b>	2006	<b>L02-H04B</b>	. <b>Carbon nanostructures</b> Including fullerenes and nanotubes.	2002
<b>L02-G12E</b>	. <b>Silica</b>	2006	<b>L02-H05</b>	<b>Arsenides, selenides, tellurides (novel compositions only)</b>	
<b>L02-G12E1</b>	.. <b>Metal silicates</b>	2006	<b>L02-H</b>	<b>Unclassified</b> Including halides.	
<b>L02-G12M</b>	. <b>Mixed metal oxides</b> Includes metallates.	2006	<b>L02-J</b>	<b>CERAMIC COMPOSITES</b>	
<b>L02-G12M1</b>	.. <b>Metal titanates</b>	2006	<b>L02-J01</b>	<b>Metal/ceramic composites</b>	
<b>L02-G12X</b>	. <b>Other inorganic oxides</b>	2006	<b>L02-J01A</b>	. <b>Metallised ceramic</b>	
			<b>L02-J01B</b>	. <b>Cermets</b> Including cermet cutting tools.	
			<b>L02-J01C</b>	. <b>Ceramic/metal seals</b>	
			<b>L02-J01D</b>	. <b>Ceramic fibre reinforced metal</b>	
			<b>L02-J01E</b>	. <b>Ceramic coating on metal</b>	
			<b>L02-J02</b>	<b>Non-metal/ceramic composites</b>	
			<b>L02-J02A</b>	. <b>Ceramic/glass</b>	
			<b>L02-J02B</b>	. <b>Ceramic/plastics</b>	
			<b>L02-J02C</b>	. <b>Dissimilar ceramics</b>	
			<b>L02-J03</b>	<b>Powder coatings</b> May be used with other L02-J codes, and see M13-H04A.	2006
			<b>L02-J</b>	<b>Unclassified</b>	1972

<b>L02-K</b>	<b>APPLICATIONS OF CERAMICS</b>	
<b>L02-K01</b>	<b>Household use</b>	2011
<b>L02-K02</b>	<b>Medical/dental</b>	2011

## **L03 ELECTRO-(IN)ORGANIC**

<b>L03-A</b>	<b>CONDUCTORS AND INSULATORS</b>	
<b>L03-A01</b>	<b>Mainly metals and alloys</b>	
<b>L03-A01A</b>	<b>. Non-insulated (conducting alloys, contacts, conductive inks and pastes)</b>	
<b>L03-A01A1</b>	<b>.. Silver (alloy) contacts and electrodes</b> For contacts or electrodes used in specific applications which cannot be catered for elsewhere.	1986
<b>L03-A01A2</b>	<b>.. Other metal/alloy contacts and electrodes</b> For contacts or electrodes used in specific applications which cannot be catered for elsewhere.	1986
<b>L03-A01A3</b>	<b>.. Conductive pastes including polymers filled with conductive metal</b>	1986
<b>L03-A01A4</b>	<b>.. Sliding contacts, pantographs etc.</b>	1986
<b>L03-A01A5</b>	<b>.. Conductive alloy compositions</b>	1986
<b>L03-A01A6</b>	<b>.. Nanomaterials</b>	2010
<b>L03-A01B</b>	<b>. Conductors, metal, insulated</b>	
<b>L03-A01B1</b>	<b>.. Cables</b>	1986
<b>L03-A01B2</b>	<b>.. Joining cables</b>	1986
<b>L03-A01B3</b>	<b>.. Insulated wire</b>	1986
<b>L03-A01B4</b>	<b>.. Insulating oils for cables</b>	1986
<b>L03-A01B5</b>	<b>.. Preparation of leads and terminals</b>	1986
<b>L03-A01B6</b>	<b>.. Soldering, brazing, welding, thermo-compression bonding</b> See L04-C17A for soldering of semiconductors and L03-H04E6 for soldering of printed circuits.	1986
<b>L03-A01B7</b>	<b>.. Wire harness</b>	2012
<b>L03-A01C</b>	<b>. Superconductors</b>	1972
<b>L03-A01C1</b>	<b>.. Metallic superconductors</b>	2002



L03-A01C1A	... Nb superconductors	2002	L03-B01A2	.. Thermistors (heat sensitive resistors)	1986
L03-A01C2	.. Ceramic superconductors	2002	L03-B01A3	.. Humidity sensitive resistors	1986
L03-A01C2A	... Perovskite superconductors	2002	L03-B01A4	.. Gas sensitive resistors	1986
L03-A01C2B	... YBCO superconductors	2002	L03-B01B	. Fixed resistors	1972
L03-A01C3	.. Organic superconductors	2002	L03-B01C	. Thick film resistive compositions	1972
L03-A01C4	.. Nanomaterials Use this code in conjunction with other L03-A01C codes.	2013	L03-B02	<b>Magnets, inductances, transformers, etc., general</b> For magnetic tape compsns. discs, lubricants, etc. see L03-B05 from 198601.	
L03-A02	<b>Non metal conductors</b>		L03-B02A	. Magnetic metals, alloys	1972
L03-A02A	. Non-insulated non-metal conductors		L03-B02A1	.. Iron-based powder cores and powders	1986
L03-A02B	. Carbon and graphite	1986	L03-B02A2	.. Iron based alloys L03-B02A5 takes precedence.	1986
L03-A02C	. Ion conductive solids	1986	L03-B02A3	.. Electric steels Including silicon steels.	1986
L03-A02C1	.. Indium-tin oxide (ITO)	2002	L03-B02A4	.. Nickel and cobalt-based alloys L03-B02A5 takes precedence.	1986
L03-A02D	. Conductive polymers	1986	L03-B02A5	.. Rare earth nickel/cobalt/iron alloys	1986
L03-A02E	. Polymers filled with non-metallic conductive materials	1986	L03-B02A6	.. Other alloys	1986
L03-A02G	. Conductive nanomaterials Includes nanotube, nanowire manufacture. See also L02-H04B for carbon nanostructures.	1986	L03-B02B	. Magnetic non-metals, general	1972
L03-A03	<b>Insulators</b> Including electrical insulating compositions not codable in L02-G05.	2002	L03-B02B1	.. Barium ferrite based compsns.	1986
L03-A03A	. Organic insulators	2002	L03-B02B2	.. Other ferrites	1986
L03-A03B	. Inorganic insulators	2002	L03-B02B3	.. Garnets	1986
L03-A03N	. Nanomaterials	2011	L03-B02B4	.. Magnetic polymers; plastics Includes organic magnetic materials.	2009
L03-A	<b>Unclassified</b>		L03-B02B4A	... Magnetic polymer composite particles Excludes magnetic pigments for recording which is covered in L03-B05D1.	2009
L03-B	<b>RESISTORS, MAGNETS, CAPACITORS, SWITCHES</b>		L03-B02B5	.. Magnetic liquid compositions	2009
L03-B01	<b>Resistors, fixed or adjustable - general</b>				
L03-B01A	. Variable resistors	1972			
L03-B01A1	.. Varistors	1986			

<b>L03-B02B5A</b>	... <b>Ferrofluids; magnetic colloids</b> 2009	<b>L03-B03D</b>	. <b>Other capacitors, fixed/variable</b> 1972
<b>L03-B02B5B</b>	... <b>Magnetorheological fluids; magnetoviscous</b> 2009	<b>L03-B03E</b>	. <b>Inorganic dielectric compositions</b> 1986
<b>L03-B02B6</b>	.. <b>Other magnetic material compositions</b> Excludes magnetic recording. 2009	<b>L03-B03F</b>	. <b>Organic dielectric compositions</b> 1986
<b>L03-B02B6A</b>	... <b>Inorganic composite magnetic particles</b> Excludes magnetic pigments for recording which is covered in L03-B05D1. 2009	<b>L03-B03G</b>	. <b>Capacitor electrodes</b> 2002
<b>L03-B02C</b>	. <b>Inductances</b> Including insulating oils for inductors. 1972	<b>L03-B03G1</b>	.. <b>Inorganic capacitor electrodes</b> 2007
<b>L03-B02D</b>	. <b>Transformers</b> Including insulating oils for transformers. 1972	<b>L03-B03G2</b>	.. <b>Metallic capacitor electrodes</b> 2011
<b>L03-B02E</b>	. <b>Motors</b> 1986	<b>L03-B03H</b>	. <b>Capacitor electrolytes</b> 2006
<b>L03-B02F</b>	. <b>Coils</b> 1986	<b>L03-B03J</b>	. <b>Multilayer capacitors</b> 2007
<b>L03-B02G</b>	. <b>Medical or pharmaceutical industry applications</b> 2009	<b>L03-B04</b>	<b>Electric switches, relays, protective devices</b> Including arc suppressing gases, commutators, surge arresters.
<b>L03-B02H</b>	. <b>Magnetic inks, paints, lacquers</b> 2009	<b>L03-B04A</b>	. <b>Switches</b> 1986
<b>L03-B02J</b>	. <b>Engineering; automotive applications</b> 2009	<b>L03-B04B</b>	. <b>Relays and contact breakers</b> 1986
<b>L03-B02M</b>	. <b>Magnetic memory</b> See also L04-E15 for semiconductor memory. 2011	<b>L03-B04C</b>	. <b>Commutators</b> 1986
<b>L03-B02N</b>	. <b>Nanomagnetic materials</b> 2012	<b>L03-B04D</b>	. <b>Fuses</b> 1986
<b>L03-B02X</b>	. <b>Other applications of magnets or magnetic compositions</b> Excludes magnetic recording which is covered in L03-B05. 2009	<b>L03-B04E</b>	. <b>Lightning arresters and surge absorbers</b> 1986
<b>L03-B03</b>	<b>Capacitors and capacitive devices - general</b> Including electrets, condensers.	<b>L03-B05</b>	<b>Magnetic recording</b> Covered by L03-B02 prior to 198601. 1986
<b>L03-B03A</b>	. <b>Electrolytic capacitors</b> 1972	<b>L03-B05A</b>	. <b>Magnetic tapes</b> 1986
<b>L03-B03B</b>	. <b>Monolithic capacitors</b> 1972	<b>L03-B05B</b>	. <b>Magnetic plates, discs</b> 1986
<b>L03-B03C</b>	. <b>Thick/thin film capacitive compositions</b> 1972	<b>L03-B05C</b>	. <b>Other recording media</b> 1986
		<b>L03-B05D</b>	. <b>Magnetic layers, dispersions</b> 1986
		<b>L03-B05D1</b>	.. <b>Magnetic pigments</b> 1986
		<b>L03-B05D2</b>	.. <b>After treatment of magnetic pigments</b> 1986
		<b>L03-B05D3</b>	.. <b>Non magnetic additives</b> 1986

<b>L03-B05D4</b>	<b>.. Binders for magnetic layers and dispersions</b>	1986	<b>L03-C02A</b>	<b>. Electrodes</b> Including photo-cathodes and target cathodes.	1972
<b>L03-B05E</b>	<b>. Magnetic layers, metal plating</b>	1986	<b>L03-C02B</b>	<b>. Fluorescent compositions for TV screens</b>	1972
<b>L03-B05F</b>	<b>. Magneto-optical and thermo-magnetic layers</b>	1986	<b>L03-C02C</b>	<b>. Luminescent compositions for tube surfaces</b> Including fluoescers for diodes, etc.	1972
<b>L03-B05G</b>	<b>. Magnetic layers for vertical recording</b>	1986	<b>L03-C02D</b>	<b>. Vapour fillings and additives</b>	1972
<b>L03-B05H</b>	<b>. Magnetic layers for security documents etc.</b>	1986	<b>L03-C03</b>	<b>Electrode supports, mountings, envelopes, bases, common to valves and/or C.R. tubes, X-ray tubes, etc.</b> Including designs for tubes and valves. Also vidicon tubes.	
<b>L03-B05J</b>	<b>. Magnetic layers general and unspecified</b>	1986	<b>L03-C03A</b>	<b>. Electrode supports, seals and mountings</b> Covers materials and methods of manufacture.	2005
<b>L03-B05K</b>	<b>. Non-magnetic layers</b>	1986	<b>L03-C03B</b>	<b>. CRT shadow masks</b> Covers materials and manufacturing techniques e.g. etching.	2005
<b>L03-B05K1</b>	<b>.. Protective</b>	1986	<b>L03-C04</b>	<b>Incandescent and luminescent screens, discharge tube envelopes, etc. - general</b> Includes fluorescent and discharge lamps.	
<b>L03-B05K2</b>	<b>.. Backing</b>	1986	<b>L03-C04A</b>	<b>. Incandescent and luminous screens</b>	
<b>L03-B05K3</b>	<b>.. Lubricant</b>	1986	<b>L03-C04B</b>	<b>. Tubes manufacture</b>	
<b>L03-B05L</b>	<b>. Supports for magnetic layers</b>	1986	<b>L03-C05</b>	<b>Electric incandescent lamps</b>	
<b>L03-B05L1</b>	<b>.. Polymeric</b>	1986	<b>L03-C05A</b>	<b>. Seals and mountings</b> Covers sealing and mounting materials and methods for incandescent lamps.	2005
<b>L03-B05L2</b>	<b>.. Metal</b>	1986	<b>L03-C05B</b>	<b>. Filaments and fillings</b> Covers filament materials and filling gases for incandescent lamps.	2005
<b>L03-B05L3</b>	<b>.. Coatings forming part of the support</b>	1986	<b>L03-C05C</b>	<b>. Lamp envelopes</b> Covers envelope materials and manufacturing methods for incandescent lamps.	2005
<b>L03-B05M</b>	<b>. Magnetic heads</b>	1986	<b>L03-C06</b>	<b>LED lamps</b>	2011
<b>L03-B05N</b>	<b>. Non-magnetic gap fillers for magnetic heads</b>	1986			
<b>L03-B05W</b>	<b>. Magnetic writer</b>	2012			
<b>L03-B06</b>	<b>Magnetic cores</b> Including bubbles and dots.	1986			
<b>L03-C</b>	<b>ELECTRIC DISCHARGE LAMPS AND TUBES, INCANDESCENT LAMPS</b>				
<b>L03-C01</b>	<b>Non-emissive electrodes and materials therefor, getters</b>				
<b>L03-C02</b>	<b>Emissive electrodes and materials for discharge tubes and lamps, general</b>				

<b>L03-C</b>	<b>Unclassified</b> Including electron multiplier tubes dynodes, short arc fluorescent lamps.	<b>L03-D02B</b>	. <b>Zone refining</b> 1972-1985
<b>L03-D</b>	<b>SEMICONDUCTOR, PIEZOELECTRIC, THERMOOPTIC, OPTO-ELECTRONIC MATERIALS AND DEVICES</b> From 198601, the scope of L03-D02+, L03-D03+, L03-D04+ and L03-D05+ codes which terminated in 1985 are covered by L04+ codes. Scope of all remaining L03-D codes are now covered in L03-G from 200501. 1972-2004	<b>L03-D02C</b>	. <b>Doping</b> 1972-1985
<b>L03-D01</b>	<b>Materials, general</b> Including pyroelectric materials. 1972-2004	<b>L03-D03</b>	<b>Producing semiconductor devices using L03-D01 materials - general</b> 1972-1985
<b>L03-D01A</b>	. <b>Semiconductor materials</b> 1972-1985	<b>L03-D03A</b>	. <b>Doped layers on a substrate</b> Including epitaxial layer production of single crystals. 1972-1985
<b>L03-D01B</b>	. <b>Piezoelectric materials</b> Scope now covered in L03-G09A. 1972-2004	<b>L03-D03B</b>	. <b>Masking techniques</b> 1972-1985
<b>L03-D01C</b>	. <b>Thermo-optic materials</b> Scope now covered in L03-G09D. 1972-2004	<b>L03-D03C</b>	. <b>Etching, slicing, and dicing</b> 1972-1985
<b>L03-D01D</b>	. <b>Opto-electronic materials</b> 1972-2004	<b>L03-D03D</b>	. <b>Insulating and conductive layer production</b> 1972-1985
<b>L03-D01D1</b>	.. <b>Liquid crystal compounds</b> Scope now covered in L03-G05B1. 1986-2004	<b>L03-D03E</b>	. <b>Production of complete devices</b> Unspecified devices only, otherwise L03-D04: 1972-1985
<b>L03-D01D2</b>	.. <b>Liquid crystal material mixtures</b> Scope now covered in L03-G05B2. 1986-2004	<b>L03-D03F</b>	. <b>Soldering, thermo-compression bonding</b> Including soldering of any electronic component. 1972-1985
<b>L03-D01D3</b>	.. <b>Additives for liquid crystal materials</b> Scope now covered in L03-G05B4. 1986-2004	<b>L03-D03G</b>	. <b>Encapsulation</b> Including passivation and partial encapsulation. 1972-1985
<b>L03-D01E</b>	. <b>Electro-rheological fluids</b> Scope now covered in L03-G09F. 1994-2004	<b>L03-D03H</b>	. <b>Undoped layers on a substrate</b> Including epitaxial layer production of single crystals. 1977-1985
<b>L03-D02</b>	<b>Producing semiconductors, doping - general</b> 1970-1985	<b>L03-D04</b>	<b>Devices - general</b> Including Hall effect and Pockels cell devices and electro-optical devices. From 200501, Scope covered in L03-G10. 1972-2004
<b>L03-D02A</b>	. <b>Single crystal growth</b> Semiconducting materials only; does not include epitaxial layer production. 1972-1985	<b>L03-D04A</b>	. <b>Transistors</b> 1972-1985
		<b>L03-D04B</b>	. <b>Diodes, rectifiers</b> Including LEDs, light-emitting semiconductor devices and arrays. 1972-1985
		<b>L03-D04C</b>	. <b>Thyristors</b> 1972-1985

<b>L03-D04D</b>	. <b>Electromechanical transducers</b> Including mechano-electrical transducers (but see L03-H03 for speaker cones); also including ferro-elastic devices. Scope covered in L03-G10 from 200501.  1972-2004	<b>L03-E01B4C</b>	... <b>Ni MH electrodes</b> Includes H2 storage alloys.  2002
<b>L03-D04E</b>	. <b>Radiation sensitive devices</b> Including thermo-piles, photoelectric cells.  1972-1985	<b>L03-E01B5</b>	.. <b>Alkali metal electrodes and unspecified electrodes for alkaline cells</b>  1986
<b>L03-D04F</b>	. <b>Image converters</b> Including image intensifiers. Scope covered in L03-G10.  1972-2004	<b>L03-E01B5A</b>	... <b>Manganese oxide electrodes</b> Includes electrodes for alkaline manganese cells.  2002
<b>L03-D04G</b>	. <b>Thermo-optical devices</b> Including thermal printing heads. Scope now covered in L03-G10B, C and D.  1972-2004	<b>L03-E01B5B</b>	... <b>Lithium electrodes</b> Include novel electrodes for lithium cells. For lithium manganate see L03-E01B5C.  2002
<b>L03-D05</b>	<b>Sealing devices in housings</b> 1970-1985	<b>L03-E01B5C</b>	... <b>Lithium manganate electrodes</b> 2002
<b>L03-D05A</b>	. <b>Materials for device housings - e.g. polymers for general electrical/electronic usage</b> Including thermal printing heads.  1994-2004	<b>L03-E01B5D</b>	... <b>Sodium-sulfur electrodes</b>  2002
<b>L03-D</b>	<b>Unclassified</b>	<b>L03-E01B6</b>	.. <b>Zinc and zinc oxide electrode</b> 1986
<b>L03-E</b>	<b>BATTERIES, ACCUMULATORS, THERMOELECTRIC ELEMENTS</b>	<b>L03-E01B7</b>	.. <b>Silver and silver oxide electrodes</b>  1986
<b>L03-E01</b>	<b>Components of primary and secondary cells - general</b> Components take precedence over cell type unless more than two components are claimed.	<b>L03-E01B8</b>	.. <b>Other inorganic electrodes</b> 1986
<b>L03-E01A</b>	. <b>Separators</b>  1972	<b>L03-E01B8A</b>	... <b>Other inorganic oxide electrodes</b>  2002
<b>L03-E01B</b>	. <b>Electrodes</b>  1972	<b>L03-E01B9</b>	.. <b>Organic electrodes</b>  1986
<b>L03-E01B1</b>	.. <b>Lead electrodes</b>  1977	<b>L03-E01B9A</b>	... <b>Polymer electrodes</b>  2002
<b>L03-E01B2</b>	.. <b>Air or oxygen electrodes</b>  1977	<b>L03-E01C</b>	. <b>Electrolytes</b>  1972
<b>L03-E01B3</b>	.. <b>Graphite electrodes</b>  1986	<b>L03-E01C1</b>	.. <b>Aqueous electrolytes</b>  2002
<b>L03-E01B4</b>	.. <b>Nickel and cadmium electrodes</b>  1986	<b>L03-E01C2</b>	.. <b>Non-aqueous electrolytes</b> 2002
<b>L03-E01B4A</b>	... <b>Ni electrodes for NiCd batteries</b>  2002	<b>L03-E01C3</b>	.. <b>Solid electrolytes</b>  2002
<b>L03-E01B4B</b>	... <b>Cd electrodes</b>  2002	<b>L03-E01C4</b>	.. <b>Liquid electrolytes</b>  2002
		<b>L03-E01C5</b>	.. <b>Molten/fused electrolytes</b> 2002
		<b>L03-E01D</b>	. <b>Other components</b>  1972
		<b>L03-E01D1</b>	.. <b>Cases</b>  2002
		<b>L03-E01D2</b>	.. <b>Terminals</b>  2002
		<b>L03-E01D3</b>	.. <b>Seals</b>  2002

<b>L03-E01D4</b>	.. <b>Connectors</b> See also X16-F05.	2011	<b>L03-E04I</b>	. <b>Hydrogen generation</b>	2006
<b>L03-E01D5</b>	.. <b>Carriers, plates</b> Includes current collector, grid, support, charge and frame.	2011	<b>L03-E04J</b>	. <b>Hydrogen storage materials/facility</b>	2007
<b>L03-E01D6</b>	.. <b>Battery packs</b>	2011	<b>L03-E04K</b>	. <b>Biofuel cell</b>	2011
<b>L03-E02</b>	<b>Primary cells</b>		<b>L03-E04L</b>	. <b>Flow field plate</b>	2011
<b>L03-E03</b>	<b>Secondary cells</b>		<b>L03-E04P</b>	. <b>Gas diffusion layers</b>	2012
<b>L03-E04</b>	<b>Fuel cells</b>		<b>L03-E05</b>	<b>Other direct energy conversion devices</b>	
<b>L03-E04A</b>	. <b>Solid electrolyte cells</b> Including beta-Al <sub>2</sub> O <sub>3</sub> for Na-S cells.		<b>L03-E05A</b>	. <b>Thermocouples</b>	1972
<b>L03-E04A1</b>	.. <b>Solid oxide electrolyte cells</b>	2002	<b>L03-E05B</b>	. <b>Solar cells</b>	1986
<b>L03-E04A2</b>	.. <b>Solid polymer electrolyte cells</b>	2002	<b>L03-E05B1</b>	.. <b>Dye-sensitized solar cells</b>	2011
<b>L03-E04B</b>	. <b>Fuel cell electrodes</b>	2002	<b>L03-E05B1A</b>	... <b>Dye material</b>	2011
<b>L03-E04B1</b>	.. <b>Catalyst electrodes</b> See also J04-E04D.	2006	<b>L03-E05B2</b>	.. <b>Electrode structure/materials</b>	2013
<b>L03-E04B2</b>	.. <b>Membrane electrodes</b>	2007	<b>L03-E05C</b>	. <b>Gas sensors - i.e. those which are not gas-sensitive resistors</b>	1994
<b>L03-E04C</b>	. <b>Molten carbonate fuel cells</b>	2002	<b>L03-E05D</b>	. <b>Hybrid cells</b>	2002
<b>L03-E04D</b>	. <b>Alkaline fuel cells</b>	2002	<b>L03-E05D1</b>	.. <b>Electrodes</b>	2002
<b>L03-E04E</b>	. <b>Phosphoric acid fuel cells</b>	2002	<b>L03-E05D2</b>	.. <b>Metal-air hybrid cells</b>	2002
<b>L03-E04F</b>	. <b>Hydrogen oxygen fuel cells</b>	2002	<b>L03-E05D3</b>	.. <b>Metal-halogen hybrid cells</b>	2002
<b>L03-E04G</b>	. <b>Fuel cell separators</b>	2002	<b>L03-E06</b>	<b>Reclamation and disposal</b> See also relevant electrode code.	2002
<b>L03-E04H</b>	. <b>Production of fuel cell and components</b> Include assembling of fuel cells.	2005	<b>L03-E07</b>	<b>Testing batteries and fuel cells</b>	2002
<b>L03-E04H1</b>	.. <b>Production of fuel cell separators</b>	2006	<b>L03-E08</b>	<b>Production of battery and components</b> See also relevant electrode code. Include apparatus for manufacturing battery and its components. Include assembling of batteries.	2006
<b>L03-E04H2</b>	.. <b>Production of fuel cell electrodes</b> Includes preparation of electrode materials.	2006	<b>L03-E08A</b>	. <b>Production of separators</b>	2006
<b>L03-E04H3</b>	.. <b>Production of other fuel cell components</b> Includes electrolyte manufacture.	2005	<b>L03-E08B</b>	. <b>Production of electrodes</b> Include preparation of electrode materials.	2006

<b>L03-E08C</b>	. <b>Production of other components</b> E.g. cases, terminals and seals. Also includes electrolyte manufacture.	2006	<b>L03-G02E</b>	. <b>Antireflective coating</b> See L04-C05A for antireflective coating compositions used in semiconductor patterning.	2011
<b>L03-E09</b>	<b>Recharging batteries</b> E.g. processes or apparatus for recharging. Only if sufficient chemical interest. See also X16-G.	2006	<b>L03-G02F</b>	. <b>Optical switch</b>	2012
<b>L03-E10</b>	<b>Repairing batteries</b>	2011	<b>L03-G02G</b>	. <b>Reflectors</b>	2013
<b>L03-E</b>	<b>Unclassified</b>		<b>L03-G03</b>	<b>Coulometers</b>	1972
<b>L03-F</b>	<b>STIMULATED RADIATION-EMISSION DEVICES</b>		<b>L03-G04</b>	<b>Optical memory and storage elements</b> Covers optical discs and holographic media.	1972
<b>L03-F01</b>	<b>Masers</b>		<b>L03-G04A</b>	. <b>Semiconductor memory elements</b> Scope now covered by L04-E15.	1986-2004
<b>L03-F02</b>	<b>Lasers, general</b>		<b>L03-G04B</b>	. <b>Optical memory elements</b> For magnetic and magneto-optical memory elements see L03-B05.	1986
<b>L03-F02A</b>	. <b>Compositions</b>	1972	<b>L03-G04B1</b>	.. <b>Dyes and pigments for recordable discs</b>	2005
<b>L03-F02A1</b>	.. <b>Gaseous laser compositions</b>	2002	<b>L03-G04B2</b>	.. <b>Alloy compositions for recordable discs</b> For dynamic e.g. phase change optical disk memory using e.g. GeSbTe alloys. See also T03-B01B5G.	2005
<b>L03-F02A2</b>	.. <b>Solid laser compositions</b> Includes YAG, Ruby.	2002	<b>L03-G04B3</b>	.. <b>Substrates for optical discs</b>	2005
<b>L03-F02A3</b>	.. <b>Dye laser</b>	2011	<b>L03-G04B4</b>	.. <b>Coatings for recordable discs</b>	2005
<b>L03-F02B</b>	. <b>Construction and design</b>	1972	<b>L03-G04B5</b>	.. <b>Optical cards</b>	2011
<b>L03-F</b>	<b>Unclassified</b>	1972	<b>L03-G04B9</b>	.. <b>Materials for holographic applications</b>	2005
<b>L03-G</b>	<b>OTHER BASIC ELECTR(ON)IC ELEMENTS AND MATERIALS</b>		<b>L03-G05</b>	<b>Display devices</b> Including arrays.	1972
<b>L03-G01</b>	<b>Delay lines</b>	1972	<b>L03-G05A</b>	. <b>Liquid crystal display devices</b> But see L03-D01D for liquid crystal materials.	1986
<b>L03-G02</b>	<b>Wave guides</b> Includes optical fibre waveguides. Also include optical components which cannot be coded more specifically below.	1972	<b>L03-G05A1</b>	.. <b>LCD panels</b>	2002
<b>L03-G02A</b>	. <b>Polarisers</b>	2002	<b>L03-G05A2</b>	.. <b>Light valves</b>	2002
<b>L03-G02B</b>	. <b>Optical filters</b>	2002			
<b>L03-G02C</b>	. <b>Attenuators</b>	2002			
<b>L03-G02D</b>	. <b>Components for optoelectronic circuits</b>	2002			

<b>L03-G05A3</b>	.. Backlight units	2010	<b>L03-G05F2</b>	.. Other materials for EL devices Includes e.g. polymer or ceramic sealants or glass layers.	2005
<b>L03-G05B</b>	. Materials and components for LCDs display devices	1986	<b>L03-G05G</b>	. Electrophoretic displays and materials	2005
<b>L03-G05B1</b>	.. Novel liquid crystal compounds	2005	<b>L03-G05H</b>	. Magnetophoretic display	2010
<b>L03-G05B2</b>	.. Liquid crystal compositions	2005	<b>L03-G05I</b>	. Capacitive touch panel	2011
<b>L03-G05B3</b>	.. Dyes for liquid crystal compounds	2005	<b>L03-G05J</b>	. Electrowetting display	2011
<b>L03-G05B4</b>	.. Aligning agents and other additives for LC compositions	2005	<b>L03-G05K</b>	. LED display	2011
<b>L03-G05B5</b>	.. Substrates and spacers for LCDs	2005	<b>L03-G06</b>	Electromagnetic shielding	2002
<b>L03-G05B5A</b>	... Sealant materials involving resins used in display materials	2007	<b>L03-G07</b>	Heat sinks	2002
<b>L03-G05B6</b>	.. Transistors for LCDs	2005	<b>L03-G09</b>	<b>Other electro(in)organic materials</b> For materials used in specific applications not catered for elsewhere, e.g. GeSbTe for solid state phase change memory, in which case also apply L04-E15. See U14-A03H and U12-B02.	2005
<b>L03-G05B7</b>	.. Filters and polarisers	2005	<b>L03-G09A</b>	. Piezoelectric	2005
<b>L03-G05B7A</b>	... Colour filters See L03-G02 for colour filters not used in LCDs.	2005	<b>L03-G09A1</b>	.. Inorganic Covers e.g. lead zirconium titanates (PZT) etc.	2005
<b>L03-G05B7B</b>	... Polarisers	2005	<b>L03-G09A2</b>	.. Organic Covers e.g. polyvinylidene fluoride (PVdF) etc.	2005
<b>L03-G05B8</b>	.. Alignment layers	2005	<b>L03-G09B</b>	. Ferroelectric and ferroelastic	2005
<b>L03-G05B9</b>	.. Conductive films and other components for LCDs	2005	<b>L03-G09C</b>	. Pyroelectric From 2010 thermoelectric material has been transferred to L03-G09T.	2005
<b>L03-G05C</b>	. Electrochromic display devices	1986	<b>L03-G09D</b>	. Thermo-optical	2005
<b>L03-G05C1</b>	.. Electrochromic materials	2005	<b>L03-G09E</b>	. Other optoelectronic materials Includes other non-linear optical materials not covered above. From 2006 this code has been expanded to include all other optoelectronic materials including non-linear optical materials.	2005
<b>L03-G05C2</b>	.. Other materials for electrochromic devices Includes e.g. polymer or ceramic sealants or glass layers.	2005	<b>L03-G09F</b>	. Electrorheological	2005
<b>L03-G05D</b>	. Field emission displays (FED)	2002			
<b>L03-G05E</b>	. Plasma displays (PDP)	2002			
<b>L03-G05F</b>	. Electroluminescent displays (EL) and devices	2002			
<b>L03-G05F1</b>	.. Electroluminescent materials	2005			



<b>L03-G09G</b>	. <b>Fluorescent and luminescent materials for semiconductor manufacture</b> Used in e.g. LEDs, lasers. 2007	<b>L03-G10A1</b>	.. <b>Inkjet heads</b> 2005
<b>L03-G09H</b>	. <b>Electrostrictive</b> 2010	<b>L03-G10A2</b>	.. <b>Motors e.g. USM</b> 2005
<b>L03-G09I</b>	. <b>Magnetostrictive</b> 2010	<b>L03-G10B</b>	. <b>Thermal inkjet printing heads</b> 2005
<b>L03-G09J</b>	. <b>Photoelectric</b> 2010	<b>L03-G10C</b>	. <b>Thermal printing heads</b> e.g. as used by dye sublimation printers. 2005
<b>L03-G09L</b>	. <b>Magnetoresistive</b> 2011	<b>L03-G10D</b>	. <b>Other thermo-optical devices</b> 2005
<b>L03-G09M</b>	. <b>Thermomagnetic</b> Excludes recording materials. 2011	<b>L03-G10E</b>	. <b>Image converters and intensifiers</b> 2005
<b>L03-G09P</b>	. <b>Photoresist</b> Excludes photoresist for PCB and semiconductor device manufacture. Includes resist for printer or LCD manufacture. 2010	<b>L03-G10F</b>	. <b>Electro-optical devices</b> 2011
<b>L03-G09R</b>	. <b>Photochromic</b> 2011	<b>L03-G10J</b>	. <b>Electrowetting devices</b> 2011
<b>L03-G09S</b>	. <b>Spintronic</b> 2012	<b>L03-G10M</b>	. <b>MEMS</b> 2011
<b>L03-G09T</b>	. <b>Thermoelectric</b> 2010	<b>L03-G10S</b>	. <b>Scintillator</b> 2011
<b>L03-G09U</b>	. <b>Radiation sensitive materials</b> For image recording. 2012	<b>L03-G10T</b>	. <b>Spintronic devices</b> Includes spintronic-optical and spintronic-magnetic devices. 2012
<b>L03-G09V</b>	. <b>Other fluorescent/luminescent materials</b> Includes fluorescent and luminescent materials used for devices other than semiconductor and discharge lamps/tubes. Also includes scintillator material compositions. 2012	<b>L03-G</b>	<b>Unclassified</b>
<b>L03-G09X</b>	. <b>Ink jet recording ink</b> For ink jet recording methods. 2014	<b>L03-H</b>	<b>APPLICATIONS</b>
<b>L03-G09Z</b>	. <b>Zero expansion materials</b> 2012	<b>L03-H01</b>	<b>Generation, conversion, distribution</b> Including MHD generation, triboelectric devices.
<b>L03-G10</b>	<b>Other electronic devices</b> For specific devices not catered for elsewhere where the materials aspect is important. 2005	<b>L03-H02</b>	<b>Basic electronic circuitry</b> Including lead frames for semiconductor networks and hybrid devices.
<b>L03-G10A</b>	. <b>Piezoelectric transducers</b> See also V06 codes for specific details. For MEMS see L03-G10M. 2005	<b>L03-H03</b>	<b>Electric communications techniques - general</b> Including speaker cones.
		<b>L03-H03A</b>	. <b>Data storage units, computers</b> 1972
		<b>L03-H03B</b>	. <b>Bio- and neuro-computers</b> 1994
		<b>L03-H04</b>	<b>Electrical general</b>
		<b>L03-H04A</b>	. <b>Electrical heating and lighting</b> Including resistive and other space heaters, storage heaters.
		<b>L03-H04B</b>	. <b>Static/antistatic electricity</b>
		<b>L03-H04C</b>	. <b>X-ray techniques</b> Including tube fluorescers, image intensifiers and electrodes.

<b>L03-H04D</b>	<b>. Plasma techniques, particle accelerators</b> Including magnetrons.		<b>L03-J01</b>	<b>Recycling of electrical and electronic materials and devices</b> Used in combination with relevant device codes.	<b>2005</b>
<b>L03-H04E</b>	<b>. Printed circuits and racks - general</b>		<b>L03-J02</b>	<b>Materials for device housings and packaging</b> Includes polymers e.g. for electrical device casings and for non-specific electrical uses and material used for packaging devices and apparatus for storage.	<b>2005</b>
<b>L03-H04E1</b>	<b>.. PCB substrate manufacture (plastics, resins, etc.)</b>	<b>1972</b>	<b>L03-J03</b>	<b>Flame retardant materials</b>	<b>2011</b>
<b>L03-H04E2</b>	<b>.. Patterning, including photoresists, application &amp; removal, etching etc.</b>	<b>1972</b>	<b>L03-X</b>	<b>TESTING OF DEVICES</b> Exclude testing of batteries and fuel cells (see L03-E07) and testing of semiconductor devices (see L04-C18B).	
<b>L03-H04E3</b>	<b>.. Metallising, plating, vapour deposition, forming metal sheet and laminating etc</b>	<b>1972</b>	<b>L03-X</b>	<b>General and unclassified</b>	<b>2011</b>
<b>L03-H04E4</b>	<b>.. Thick film circuits</b> Including conductive pastes and inks for thick film circuit manufacture.	<b>1972</b>			
<b>L03-H04E5</b>	<b>.. Ceramic substrates for PCB's</b> Includes glass and enamels substrates or coatings on metals or ceramics.	<b>1972</b>			
<b>L03-H04E6</b>	<b>.. Soldering. Including tinning of circuits, soldering components to circuits, soldering apparatus etc. Brazing</b>	<b>1986</b>			
<b>L03-H04E6A</b>	<b>... Adhesives/adhesive joining for PCBs</b>	<b>2007</b>			
<b>L03-H04E7</b>	<b>.. Microwelding</b>	<b>1986</b>			
<b>L03-H04E8</b>	<b>.. Encapsulation of PCB's</b> Including plastics and glass encapsulation.	<b>1986</b>			
<b>L03-H04E9</b>	<b>.. Other treatment of PCB's</b>	<b>1986</b>			
<b>L03-H05</b>	<b>Vehicles</b> Including sparking and resistive ignition plugs.				
<b>L03-H</b>	<b>Applications Unclassified</b>				
<b>L03-J</b>	<b>OTHER MANUFACTURE AND TREATMENT OF ELECTR(ON)IC COMPONENTS AND MATERIALS</b>				
<b>L03-J</b>	<b>General and unclassified</b>	<b>1986</b>			

**L04 SEMICONDUCTORS**

For ceramic semiconductors see the appropriate ceramic composition and L03-A02 or L03-B01. See also L03-D+: codes prior to 198601.

**L04 Semiconductors general**

This code will be used where no reference is made to which semiconductor is under consideration and where no other L04 code is appropriate.

1986

<b>L04-A</b>	<b>MATERIALS - GENERAL</b> Including preparation of precursor materials.	
<b>L04-A</b>	<b>General</b> Materials codes will be used to identify material used in semiconductor processing and devices, where given (except for silicon which is the normal semiconductor material). These codes will also be used for preparation of the semiconductor material from impure precursors, (including silicon).	1986
<b>L04-A01</b>	<b>Silicon</b> From 2002 silicon is coded in L04-A01A. From 2002 L04-A01 has been re-defined as the general code for group IV semiconductors. More specific named examples of group IV semiconductors are coded from L04-A01A to L04-A01F.	1986-2001
<b>L04-A01</b>	<b>Group IV semiconductors</b> Prior to 2002 L04-A01 was assigned for silicon.	2002
<b>L04-A01A</b>	. <b>Silicon</b>	2002
<b>L04-A01B</b>	. <b>Silicon carbide</b>	2002
<b>L04-A01C</b>	. <b>Silicon-germanium</b>	2002
<b>L04-A01D</b>	. <b>Diamond</b>	2002
<b>L04-A01E</b>	. <b>Germanium</b>	2002
<b>L04-A01F</b>	. <b>Other group IV semiconductors</b>	2002
<b>L04-A02</b>	<b>AIII-BV compounds- general</b>	1986

<b>L04-A02A</b>	. <b>Gallium arsenide</b> From 2002 gallium arsenide is coded in L04-A02A3A. From 2002 L04-A02A has been re-defined to cover binary AIII-BV compounds-general.	1986-2001
<b>L04-A02A</b>	. <b>Binary AIII-BV compound semiconductors</b> Prior to 2002 L04-A02A was assigned for gallium arsenide.	2002
<b>L04-A02A1</b>	.. <b>Nitrides</b>	2002
<b>L04-A02A1A</b>	... <b>Gallium nitrides</b>	2002
<b>L04-A02A1B</b>	... <b>Indium nitrides</b>	2002
<b>L04-A02A1C</b>	... <b>Aluminium nitrides</b>	2002
<b>L04-A02A2</b>	.. <b>Phosphides</b>	2002
<b>L04-A02A2A</b>	... <b>Gallium phosphides</b>	2002
<b>L04-A02A2B</b>	... <b>Indium phosphides</b>	2002
<b>L04-A02A2C</b>	... <b>Aluminium phosphides</b>	2002
<b>L04-A02A3</b>	.. <b>Arsenides</b>	2002
<b>L04-A02A3A</b>	... <b>Gallium arsenides</b>	2002
<b>L04-A02A3B</b>	... <b>Indium arsenides</b>	2002
<b>L04-A02A3C</b>	... <b>Aluminium arsenides</b>	2002
<b>L04-A02A4</b>	.. <b>Antimonides</b>	2002
<b>L04-A02A4A</b>	... <b>Gallium antimonides</b>	2002
<b>L04-A02A4B</b>	... <b>Indium antimonides</b>	2002
<b>L04-A02A4C</b>	... <b>Aluminium antimonides</b>	2002
<b>L04-A02B</b>	. <b>Gallium phosphide</b> From 2002 gallium phosphide is coded in L04-A02A2A. From 2002 L04-A02B has been re-defined to cover tertiary AIII-BV compound semiconductors.	1986-2001
<b>L04-A02B</b>	. <b>Tertiary AIII-BV compound semiconductors</b> Prior to 2002 L04-A02B was assigned for gallium phosphide.	2002

<b>L04-A02B1</b>	<b>.. Nitrides</b>	2002	<b>L04-A03C</b>	<b>. Mercury telluride, cadmium telluride, zinc telluride</b>	2002
<b>L04-A02B2</b>	<b>.. Phosphides</b>	2002	<b>L04-A03D</b>	<b>. Zinc oxide</b>	2010
<b>L04-A02B3</b>	<b>.. Arsenides</b>	2002	<b>L04-A04</b>	<b>Organic semiconductor materials</b>	1986
<b>L04-A02B4</b>	<b>.. Antimonides</b>	2002	<b>L04-A04A</b>	<b>. Dianhydride semiconductor materials</b>	2002
<b>L04-A02C</b>	<b>. Indium antimonide, indium phosphide</b> From 2002 indium antimonide and indium phosphide are coded in L04-A02A4B and L04-A02A2B respectively. From 2002 L04-A02C has been re-defined to cover quaternary AIII-BV compound semiconductors.	1986-2001	<b>L04-A04B</b>	<b>. Cyanine semiconductor materials</b>	2002
<b>L04-A02C</b>	<b>. Quaternary AIII-BV compound semiconductors</b> Prior to 2002 L04-A02C was assigned for indium antimonide or indium phosphide.	2002	<b>L04-A04C</b>	<b>. Thiophene semiconductors</b>	2002
<b>L04-A02C1</b>	<b>.. Nitrides</b>	2002	<b>L04-A04D</b>	<b>. Other organic semiconductor materials</b>	2002
<b>L04-A02C2</b>	<b>.. Phosphides</b>	2002	<b>L04-A05</b>	<b>Semiconductor nanomaterials</b> Includes semiconductor quantum dots.	2010
<b>L04-A02C3</b>	<b>.. Arsenides</b>	2002	<b>L04-A06</b>	<b>Chalcopyrites</b>	2011
<b>L04-A02C4</b>	<b>.. Antimonides</b>	2002	<b>L04-A07</b>	<b>Copper indium sulphide</b>	2011
<b>L04-A02D</b>	<b>. Complex ternary and quaternary AIII-BV compounds</b> From 2002 complex ternary and quaternary AIII-BV compounds are coded in L04-A02B and L04-A02C respectively. From 2002 L04-A02D has been re-defined to cover other AIII-BV compound semiconductors.	1986-2001	<b>L04-A08</b>	<b>Semiconductor precursor material compositions/preparation</b>	2012
<b>L04-A02D</b>	<b>. Other AIII-BV compound semiconductors</b> Prior to 2002 L04-A02D was assigned for complex ternary and quaternary AIII-BV compounds.	2002	<b>L04-A99</b>	<b>Other inorganic semiconductor materials</b>	2011
<b>L04-A03</b>	<b>All-BVI cpds.- general</b>	1986	<b>L04-B</b>	<b>MANUFACTURE OF SEMICONDUCTOR MONOCRYSTALS - GENERAL</b>	
<b>L04-A03A</b>	<b>. Mercury sulfide, cadmium sulfide, zinc sulfide</b>	1986	<b>L04-B</b>	<b>General</b>	1986
<b>L04-A03B</b>	<b>. Mercury selenide, cadmium selenide, zinc selenide</b>	1986	<b>L04-B01</b>	<b>Single crystal growth by Czochralski, Bridgman and other methods</b>	1986
			<b>L04-B01A</b>	<b>. Methods</b>	2002
			<b>L04-B01B</b>	<b>. Seed crystals</b>	2002
			<b>L04-B01C</b>	<b>. Apparatus</b>	2002
			<b>L04-B02</b>	<b>General purification</b>	1986
			<b>L04-B02A</b>	<b>. Zone refining</b>	2002
			<b>L04-B02B</b>	<b>. Gettering</b>	2002

<b>L04-B03</b>	<b>Doping</b>	1986	<b>L04-C06A</b>	<b>. Mask design and manufacture</b>	1986
<b>L04-B04</b>	<b>Wafer production</b>	1986	<b>L04-C06A1</b>	<b>.. Pellicle design/manufacturing</b>	2013
<b>L04-B04A</b>	<b>. Chemical-mechanical polishing</b> Includes polishing pad or polishing apparatus.	2002	<b>L04-C06B</b>	<b>. Resists</b>	1986
<b>L04-B04B</b>	<b>. Slicing and dicing</b>	2002	<b>L04-C06B1</b>	<b>.. Patterning of resists</b>	2002
<b>L04-C</b>	<b>SEMICONDUCTOR PROCESSING - GENERAL</b>		<b>L04-C06C</b>	<b>. Hole manufacture</b>	1986
<b>L04-C</b>	<b>General</b>	1986	<b>L04-C06D</b>	<b>. Aligning masks and layers</b>	1986
<b>L04-C01</b>	<b>Epitaxial growth of semiconductor layers</b>	1986	<b>L04-C07</b>	<b>Etching processes general</b> Includes etch stop layers.	1986
<b>L04-C01A</b>	<b>. Vapour deposition</b>	1986	<b>L04-C07A</b>	<b>. Ion beam etching</b>	1986
<b>L04-C01B</b>	<b>. Chemical vapour deposition</b> Including plasma CVD.	1986	<b>L04-C07B</b>	<b>. Vapour phase etching, dry etching</b>	1986
<b>L04-C01C</b>	<b>. Liquid epitaxial growth</b>	1986	<b>L04-C07C</b>	<b>. Liquid phase etching, etchants</b>	1986
<b>L04-C01D</b>	<b>. Sputtering of semiconductor layers</b>	2002	<b>L04-C07C1</b>	<b>.. Chemical liquid phase etching</b>	2002
<b>L04-C02</b>	<b>Doped layers and regions</b>	1986	<b>L04-C07C2</b>	<b>.. Electrochemical liquid phase etching</b>	2002
<b>L04-C02A</b>	<b>. Forming layers with simultaneous doping</b>	1986	<b>L04-C07D</b>	<b>. Plasma etching</b>	1986
<b>L04-C02B</b>	<b>. Doping by ion injection</b>	1986	<b>L04-C07E</b>	<b>. Groove formation, dicing</b>	1986
<b>L04-C02C</b>	<b>. Doping by gaseous, liquid or solid contact</b>	1986	<b>L04-C07F</b>	<b>. Mechanical etching</b>	2002
<b>L04-C02D</b>	<b>. Doping by diffusion</b>	1986	<b>L04-C07G</b>	<b>. Photoetching</b>	2011
<b>L04-C02E</b>	<b>. Dopant materials</b>	2012	<b>L04-C08</b>	<b>Combinations of L04-C01 - L04-C07</b>	1986
<b>L04-C03</b>	<b>Amorphous layers</b>	1986	<b>L04-C09</b>	<b>Washing, rinsing and drying processes</b> To include cleaning.	1986
<b>L04-C04</b>	<b>Polycrystalline layers</b>	1986	<b>L04-C09A</b>	<b>. Washing and cleaning compositions</b>	2005
<b>L04-C05</b>	<b>Masking and resist materials</b>	1986	<b>L04-C09B</b>	<b>. Methods</b>	2005
<b>L04-C05A</b>	<b>. Antireflective coating compositions</b>	2011	<b>L04-C09C</b>	<b>. Apparatus</b>	2005
<b>L04-C06</b>	<b>Patterning techniques general</b> Including sequences of masking and etching steps.	1986	<b>L04-C10</b>	<b>Conductive layers - general</b> Including films.	1986

<b>L04-C10A</b>	. <b>Conductive tracks, circuits</b> Includes words and bit lines. 1986	<b>L04-C11D</b>	. <b>Terminals</b> Include terminal posts. 1986
<b>L04-C10A1</b>	.. <b>Electrical fuses</b> Used in CMOS compatible processes. For chip ID, serial number, feature selection, memory redundancy, On-Time-Programmable (OTP). 2007	<b>L04-C12</b>	<b>Insulating and passivating layers - general</b> 1986
<b>L04-C10B</b>	. <b>Polycrystalline silicon layers</b> 1986	<b>L04-C12A</b>	. <b>Oxide layers</b> 1986
<b>L04-C10C</b>	. <b>Aluminium alloys</b> 1986	<b>L04-C12B</b>	. <b>Nitride layers</b> 1986
<b>L04-C10D</b>	. <b>Copper alloys</b> 1986	<b>L04-C12C</b>	. <b>Isolating mesas, islands etc.</b> 1986
<b>L04-C10E</b>	. <b>Precious metals (alloys)</b> 1986	<b>L04-C12C1</b>	.. <b>Semiconductor on insulator (SOI)</b> 2006
<b>L04-C10F</b>	. <b>Other compositions</b> 1986	<b>L04-C12C2</b>	.. <b>Trench isolation (e.g. STI)</b> 2006
<b>L04-C10G</b>	. <b>Buried layers</b> 1986	<b>L04-C12C3</b>	.. <b>LOCOS</b> 2006
<b>L04-C10H</b>	. <b>Layer conversion especially to semiconductor or insulator</b> 1986	<b>L04-C12D</b>	. <b>Glass layers</b> 1986
<b>L04-C10J</b>	. <b>Tungsten</b> 2002	<b>L04-C12E</b>	. <b>Plastics layers</b> 1986
<b>L04-C10K</b>	. <b>Titanium</b> 2002	<b>L04-C12F</b>	. <b>Layer conversion, especially to semiconductor or conductor</b> 1986
<b>L04-C10L</b>	. <b>Coating methods</b> 2011	<b>L04-C12G</b>	. <b>Resistors</b> 2006
<b>L04-C10L1</b>	.. <b>PVD, CVD and Sputtering methods</b> 2011	<b>L04-C12H</b>	. <b>Coating methods</b> 2011
<b>L04-C10L2</b>	.. <b>Other coating methods</b> Includes electroplating, electroless plating, spraying and sol-gel techniques. 2011	<b>L04-C12H1</b>	.. <b>PVD, CVD and Sputtering methods</b> 2011
<b>L04-C11</b>	<b>Contacts, terminals, electrodes - general</b> 1986	<b>L04-C12H2</b>	.. <b>Other coating methods</b> Includes electroplating, electroless plating, spraying and sol-gel techniques. 2011
<b>L04-C11A</b>	. <b>Ohmic contacts/electrodes</b> 1986	<b>L04-C12I</b>	. <b>Buried layers</b> 2012
<b>L04-C11B</b>	. <b>Schottky contacts/electrodes</b> 1986	<b>L04-C12J</b>	. <b>Gate insulating layers</b> 2012
<b>L04-C11C</b>	. <b>Electrodes</b> 1986	<b>L04-C12K</b>	. <b>Other inorganic insulating layers</b> Includes formation of carbide type insulating layers. 2013
<b>L04-C11C1</b>	.. <b>Gate electrodes</b> For gate insulating layers see L04-C12J. 2002	<b>L04-C13</b>	<b>Multilayer systems</b> i.e. multiple conductive layers with intermediate insulating layers. 1986
<b>L04-C11C2</b>	.. <b>Capacitor electrodes</b> 2002	<b>L04-C13A</b>	. <b>Forming through holes</b> 1986
<b>L04-C11C3</b>	.. <b>Source/drain</b> 2002	<b>L04-C13B</b>	. <b>Forming through hole connections</b> 1986

<b>L04-C14</b>	<b>Combinations of insulating and conductive film or layer formation</b>	1986	<b>L04-C20C</b>	<b>. Appts. for encapsulation - moulds, handling equipment</b>	1986
<b>L04-C14A</b>	<b>. Capacitive elements</b> i.e. for ROMs etc.	1994	<b>L04-C20D</b>	<b>. Encapsulating IC's chips with lead frames, assemblies</b>	1986
<b>L04-C15</b>	<b>Many stage process sequences</b>	1986	<b>L04-C21</b>	<b>Sealing devices into housings - using prefabricated resin or ceramic parts</b>	1986
<b>L04-C16</b>	<b>Heat treatment of semiconductors</b>	1986	<b>L04-C22</b>	<b>Substrate manufacture</b> Include novel substrate and treatment of such substrates.	1986
<b>L04-C16A</b>	<b>. Annealing</b>	2002	<b>L04-C23</b>	<b>Lead frame manufacture</b> Include novel lead frames, lead frame manufacture and treatment. For attaching lead frames to devices see L04-C24.	1986
<b>L04-C16B</b>	<b>. Laser annealing</b>	2005	<b>L04-C24</b>	<b>Attaching devices to lead frames</b>	1986
<b>L04-C17</b>	<b>Bonding processes</b>	1986	<b>L04-C24A</b>	<b>. Attaching devices using TAB</b>	1994
<b>L04-C17A</b>	<b>. Soldering techniques</b> Including desoldering	1986	<b>L04-C25</b>	<b>Heat sinks</b>	1986
<b>L04-C17B</b>	<b>. Thermocompression bonding</b>	1986	<b>L04-C26</b>	<b>Other treatment processes not specified above</b> Includes spacers.	1986
<b>L04-C17C</b>	<b>. Welding - microwelding</b>	1986	<b>L04-C27</b>	<b>Planarising</b>	2002
<b>L04-C17D</b>	<b>. General adhesive use</b>	1986	<b>L04-C28</b>	<b>Phase change materials and layers</b>	2011
<b>L04-C17D1</b>	<b>.. Permanent bonding</b>	2002	<b>L04-C29</b>	<b>Ashing</b>	2012
<b>L04-C17D2</b>	<b>.. Temporary bonding (TAB)</b>	2002	<b>L04-C30</b>	<b>Purification/gettering</b> For single crystal/ingot purification and gettering see L04-B02 codes.	2012
<b>L04-C18</b>	<b>Testing of semiconductors and devices. Process monitoring and control</b>	1986	<b>L04-D</b>	<b>APPARATUS FOR SEMICONDUCTOR PROCESSING</b>	
<b>L04-C18A</b>	<b>. Process monitoring and control</b> See also relevant L04-C and U11-C process codes and U11-F codes.	2005	<b>L04-D</b>	<b>General</b>	1986
<b>L04-C18B</b>	<b>. Testing methods/apparatus</b> Includes measuring during processing and defect repair. See also U11-F codes.	2005	<b>L04-D01</b>	<b>Vapour deposition apparatus</b>	1986
<b>L04-C19</b>	<b>Marking of defective and other devices</b>	1986	<b>L04-D02</b>	<b>Cathode sputtering apparatus</b>	1986
<b>L04-C20</b>	<b>Encapsulation of semi-conductor device - general</b>	1986	<b>L04-D03</b>	<b>Liquid phase deposition apparatus</b>	1986
<b>L04-C20A</b>	<b>. Using resin</b>	1986	<b>L04-D04</b>	<b>Ion or plasma bombardment apparatus</b>	1986
<b>L04-C20B</b>	<b>. Using glass or other compsn.</b>	1986			

<b>L04-D04A</b>	. <b>Plasma etching apparatus</b>	2007	<b>L04-E01H</b>	. <b>Lab-on-chip</b> see also J04-B02, S03-H01 and U13-D04B codes.	2005
<b>L04-D04B</b>	. <b>Plasma bombardment apparatus for layer deposition</b>	2007	<b>L04-E02</b>	<b>Diodes, rectifiers</b>	1986
<b>L04-D05</b>	<b>Furnaces for heat treatment</b>	1986	<b>L04-E02A</b>	. <b>Photodiodes</b>	2005
<b>L04-D06</b>	<b>Diffusion apparatus</b>	1986	<b>L04-E03</b>	<b>Light emitting devices</b> LED except where diode is specifically mentioned.	1986
<b>L04-D07</b>	<b>Soldering apparatus</b>	1986	<b>L04-E03A</b>	. <b>Light-emitting diodes</b> Includes OLED.	1986
<b>L04-D08</b>	<b>Resist coating apparatus</b>	1986	<b>L04-E03B</b>	. <b>Semiconductor lasers</b>	1986
<b>L04-D09</b>	<b>Furnace furniture</b> i.e. boats, crucibles, wafer supports.	1986	<b>L04-E04</b>	<b>Thyristors</b>	1986
<b>L04-D10</b>	<b>Ancillary equipment</b>	1986	<b>L04-E05</b>	<b>Light receiving and detecting devices</b>	1986
<b>L04-D11</b>	<b>Other apparatus</b> Includes cleaning and testing of manufacturing apparatus. Can be used with other L04-D codes as appropriate.	2010	<b>L04-E05A</b>	. <b>Image sensors</b>	1986
<b>L04-E</b>	<b>SEMICONDUCTOR DEVICES</b>		<b>L04-E05B</b>	. <b>Photoconductors</b>	1986
<b>L04-E01</b>	<b>Transistors - general</b>	1986	<b>L04-E05C</b>	. <b>Infrared detectors</b>	1986
<b>L04-E01A</b>	. <b>Field effect transistors (FET)</b> Includes High electron mobility transistor (HEMT) and Fin transistor.	1986	<b>L04-E05D</b>	. <b>Photovoltaic devices, photoelectric cells</b> See L03-E05 for solar cells.	1986
<b>L04-E01A1</b>	.. <b>Junction field effect transistors (JFET)</b>	1986	<b>L04-E05E</b>	. <b>Electrophotography</b>	1986
<b>L04-E01B</b>	. <b>Metal oxide semiconductor transistors (MOST)</b>	1986	<b>L04-E05F</b>	. <b>Charge coupled devices (CCD)</b>	1986
<b>L04-E01B1</b>	.. <b>Metal oxide semiconductor field effect transistors (MOSFET)</b>	1986	<b>L04-E05G</b>	. <b>Photoresistors</b>	2005
<b>L04-E01C</b>	. <b>Metal insulator semiconductor transistors (MIST, MISFET)</b>	1986	<b>L04-E05H</b>	. <b>UV detectors</b>	2013
<b>L04-E01D</b>	. <b>Bipolar transistors</b> Includes N-P-N and P-N-P.	2002	<b>L04-E06</b>	<b>Integrated injection logic (IIL or I2L) devices</b>	1986
<b>L04-E01E</b>	. <b>Thin film transistors (TFT)</b> Includes TFT switching elements for active matrix LCD devices.	2002	<b>L04-E07</b>	<b>Hall effect devices</b>	1986
<b>L04-E01F</b>	. <b>CHEMFET</b>	2005	<b>L04-E08</b>	<b>Semiconductor switches</b>	1986
<b>L04-E01G</b>	. <b>Phototransistors</b>	2005	<b>L04-E09</b>	<b>Superconductive devices (Josephson junction elements)</b>	1986
			<b>L04-E10</b>	<b>Electromechanical sensors</b>	1994
			<b>L04-E11</b>	<b>Memristor</b>	2012



<b>L04-E15</b>	<b>Semiconductor memories</b>	<b>2005</b>	<b>L04-X05</b>	<b>Semiconductor apparatus cleaning methods and compositions</b>	<b>2011</b>
<b>L04-E</b>	<b>General and unclassified</b>	<b>1986</b>	<b>L04-X06</b>	<b>Recycling and repairing semiconductor devices</b>	
<b>L04-F</b>	<b>ASSEMBLIES OF SEMICONDUCTOR DEVICES TOGETHER AND/OR WITH OTHER DEVICES</b>			Includes recycling of semiconductor wafer, materials and components. Also includes recycling of waste produced during semiconductor processing. For processing waste water, see L04-X02. For processing waste gases, see L04-X03.	
<b>L04-F</b>	<b>General</b>	<b>1986</b>			
<b>L04-F01</b>	<b>Assembling devices on a substrate</b>	<b>1986</b>			
<b>L04-F02</b>	<b>Soldering devices together, on a substrate, or in a circuit</b>	<b>1986</b>			
<b>L04-F03</b>	<b>Integrated circuit systems</b>	<b>1986</b>			
<b>L04-F04</b>	<b>Integrated optical systems</b>	<b>1986</b>			
<b>L04-F05</b>	<b>Sealing circuits into packages or housings</b>				
	Including single in-line and dual in-line systems.	<b>1986</b>			
<b>L04-F06</b>	<b>Hybrid circuits</b>	<b>1986</b>			
<b>L04-X</b>	<b>ANCILIARY SEMICONDUCTOR MANUFACTURING PROCESS AND APPARATUS</b>				
<b>L04-X</b>	<b>Unclassified</b>	<b>1986</b>			
<b>L04-X01</b>	<b>Ultrapure water production for semiconductor processes</b>				
	see also J01 codes for specific treatment methods and apparatus.	<b>2005</b>			
<b>L04-X02</b>	<b>Processing of waste water from semiconductor manufacturing processes</b>				
	see also J01 codes for specific treatment methods and apparatus.	<b>2005</b>			
<b>L04-X03</b>	<b>Processing of waste gases from semiconductor manufacturing processes</b>				
	see also J01 codes for specific treatment methods and apparatus.	<b>2005</b>			
<b>L04-X04</b>	<b>Clean room apparatus and processes</b>				
	see also J01 codes for specific treatment methods and apparatus.	<b>2006</b>			

**M:  
METALLURGY**

- M11 Electroplating, Electrolytic Treatment of or with Metals
- M12 Chemical Cleaning, including Degreasing
- M13 Non-electrolytic Coating
- M14 Other Chemical Metal Surface, Surface Treatment
- M21 Mechanical Working of Metal - without Metal Removal
- M22 Casting, Powder Metallurgy
- M23 Soldering, Welding
- M24 Metallurgy of Iron and Steel
- M25 Non-Ferrous Metal Production/Refining
- M26 Non-Ferrous Alloys
- M27 Ferrous Alloys
- M28 Electrolytic/Electrothermic Production/Refining Metals
- M29 Changing Physical structure Non-Ferrous Metal Alloys

## M: METALLURGY

Furnaces are coded as to their use, e.g. melting furnaces for metal casting M22-G03G; heat treatment furnaces M24-D04, M29-C02; sintering furnaces M22-H03B or M24-A01, M25-A02; electric furnaces, if of a general type, M28-E.

In sub-sections M26 and M27, there is additionally provided a terminal code letter to indicate the important alloying material.

Non-electrolytic coatings are coded according to their method of production, and if not specified coded under a general code.

The code commenced at CPI 197001.

### M11 ELECTROPLATING, ELECTROLYTIC TREATMENT OF OR WITH METALS

M11 has priority over M12 to 14: Thus M11-F covers boriding, chromating, etc. where these processes are electro-chemical in nature.

<b>M11-A</b>	<b>ELECTROLYTIC DEPOSITION OF METALS, ALLOYS</b>	
<b>M11-A</b>	<b>General</b>	
<b>M11-A01</b>	<b>Chromium</b>	
<b>M11-A02</b>	<b>Nickel or cobalt</b>	
<b>M11-A03</b>	<b>Copper</b>	
<b>M11-A04</b>	<b>Zinc</b>	
<b>M11-A05</b>	<b>Noble metals (Ru, Rh, Pd, Ag, Os, Ir, Pt, Au)</b>	
<b>M11-A06</b>	<b>Iron</b>	
<b>M11-A06A</b>	<b>. Iron</b>	1972-2011
<b>M11-A07</b>	<b>Tin</b>	2002
<b>M11-A09</b>	<b>Other specified metals</b>	2002
<b>M11-B</b>	<b>SPECIAL PROCESSES, CHEMICAL ADDITIVES</b>	
<b>M11-B</b>	<b>General</b>	
<b>M11-B01</b>	<b>Brighteners and levelling agents</b>	
<b>M11-B02</b>	<b>Multilayer deposition</b>	
<b>M11-B03</b>	<b>After-treatment, thermal</b>	
<b>M11-B04</b>	<b>Electroplating tubes, wire, etc.</b>	

<b>M11-B05</b>	<b>Plating of difficult surfaces</b> E.g. non-conductors.	
<b>M11-B05A</b>	<b>. For electrical components</b> E.g. printed circuits.	2006
<b>M11-B06</b>	<b>Disposal/recovery used electrolytes/rinses</b> Includes apparatus.	
<b>M11-B07</b>	<b>Control systems and servicing</b>	
<b>M11-B08</b>	<b>Laboratory methods</b>	
<b>M11-B09</b>	<b>Pretreatment of metallic substrates</b>	1972
<b>M11-B10</b>	<b>Electrolytic compositions</b>	2002
<b>M11-B11</b>	<b>Electrolytic coating containing embedded materials</b> Includes particulates, whiskers, composite materials.	2010
<b>M11-C</b>	<b>APPARATUS FOR ELECTROPLATING</b>	
<b>M11-C</b>	<b>General</b>	
<b>M11-C01</b>	<b>Electrical aspects</b> Includes electrodes, power supplies, etc.	2002
<b>M11-C02</b>	<b>Mechanical aspects</b> Includes baths, lifting mechanisms.	2002
<b>M11-D</b>	<b>ELECTROFORMING</b>	
<b>M11-D</b>	<b>General</b>	
<b>M11-E</b>	<b>ANODISING OF METALS</b>	
<b>M11-E01</b>	<b>Decorative, anticorrosive purposes</b>	
<b>M11-E02</b>	<b>Electrical purposes</b> E.g. capacitor foil.	
<b>M11-E</b>	<b>General</b>	
<b>M11-F</b>	<b>ELECTROCHEMICAL FORMING NON-METALLIC LAYERS ON METALS</b>	
<b>M11-F</b>	<b>General</b> Includes boriding, chromating, etc.	
<b>M11-G</b>	<b>COATING METALS BY ELECTROPHORESIS</b>	
<b>M11-G</b>	<b>General</b>	
<b>M11-G01</b>	<b>Application of paint</b>	

<b>M11-H</b>	<b>ELECTROLYTIC CLEANING, ETCHING AND POLISHING</b>	
<b>M11-H</b>	<b>General</b>	1986
<b>M11-H01</b>	<b>Electrolytic cleaning</b>	
<b>M11-H02</b>	<b>Electrolytic polishing</b> Includes electrolytic etching.	
<b>M11-H03</b>	<b>Electrochemical machinery, localised metal removal</b> Scope now covered in M23-D06. 1986-2002	
<b>M11-H04</b>	<b>Electrolytic etching</b> Scope now covered in M11-H02. 1986-2002	
<b>M11-H05</b>	<b>Apparatus</b>	1986
<b>M11-J</b>	<b>CONTROL/TESTING</b>	1972
<b>M11-J</b>	<b>General</b>	
<b>M11-J01</b>	<b>Composition control</b>	2002
<b>M11-J02</b>	<b>Control systems</b>	2002
<b>M11-J03</b>	<b>Testing</b>	2002

## **M12 CHEMICAL CLEANING, INCLUDING DEGREASING**

<b>M12-A</b>	<b>CLEANING, PICKLING METAL</b>	
<b>M12-A</b>	<b>General</b>	
<b>M12-A01</b>	<b>Cleaning solutions/salt mixtures</b>	
<b>M12-A02</b>	<b>Inhibitors for cleaning solutions/salts</b>	
<b>M12-A03</b>	<b>Disposal/regeneration of used solution/salt mixtures</b>	
<b>M12-A04</b>	<b>Apparatus</b>	
<b>M12-A05</b>	<b>Processes</b>	1986
<b>M12-B</b>	<b>OTHER CLEANING METHODS</b>	
<b>M12-B01</b>	<b>Degreasing</b> Includes apparatus.	
<b>M12-B</b>	<b>Unclassified</b> Includes apparatus.	

## M13 NON-ELECTROLYTIC COATING

<b>M13-A</b>	<b>COATING FROM A LIQUID METAL BATH</b>	
<b>M13-A</b>	<b>General</b>	
<b>M13-A01</b>	<b>Hot dipping</b>	2002
<b>M13-A02</b>	<b>Galvanising</b>	2002
<b>M13-B</b>	<b>COATING FROM SOLUTION OR SUSPENSION OF METAL COMPOUNDS</b>	
<b>M13-B</b>	<b>General</b> Includes electroless plating.	
<b>M13-C</b>	<b>METAL SPRAYING</b>	
<b>M13-C</b>	<b>General</b>	
<b>M13-C01</b>	<b>Methods</b> Including plasma spraying.	2002
<b>M13-C02</b>	<b>Apparatus</b> Including torches, nozzles, etc.	2002
<b>M13-D</b>	<b>CEMENTATION BY DIFFUSION PROCESS</b>	
<b>M13-D</b>	<b>General</b>	1972
<b>M13-D01</b>	<b>Using solids</b>	
<b>M13-D01A</b>	. <b>Carburising/nitriding</b>	1986
<b>M13-D01B</b>	. <b>Others</b> Including carbonitriding, boronising, chromising, aluminising.	1986
<b>M13-D02</b>	<b>Using liquids</b>	
<b>M13-D02A</b>	. <b>Carburising/nitriding</b>	1986
<b>M13-D02B</b>	. <b>Others</b>	1986
<b>M13-D03</b>	<b>Using gases</b>	
<b>M13-D03A</b>	. <b>Carburising/nitriding</b>	1986
<b>M13-D03B</b>	. <b>Others</b> Including oxidising, chromising.	1986
<b>M13-D04</b>	<b>Post-treatment of coatings</b>	1986

<b>M13-E</b>	<b>GAS PLATING BY DECOMPOSITION OR REDUCTION</b>	
<b>M13-E</b>	<b>General</b>	
<b>M13-E01</b>	<b>To form metallic coatings</b>	
<b>M13-E02</b>	<b>To form inorganic coatings</b>	
<b>M13-E03</b>	<b>To form organic coatings</b>	
<b>M13-E04</b>	<b>Pretreatment of substrates</b>	1986
<b>M13-E05</b>	<b>Process characterised by glow or arc discharge</b>	1986
<b>M13-E06</b>	<b>Process characterised by thermal decomposition or reduction of gases on heated surfaces</b>	1986
<b>M13-E07</b>	<b>Apparatus</b>	1986
<b>M13-E08</b>	<b>Post treatment of coatings</b>	1986
<b>M13-F</b>	<b>FORMING COATINGS BY CONDENSATION FROM A VAPOUR</b>	
<b>M13-F</b>	<b>General</b>	
<b>M13-F01</b>	<b>Pretreatment of substrates</b>	1986
<b>M13-F02</b>	<b>Coating on metallic substrates</b>	1986
<b>M13-F03</b>	<b>Coating on other substrates</b> Including Si substrates.	1986
<b>M13-F03A</b>	. <b>Coating on semiconductors</b>	2002
<b>M13-F03B</b>	. <b>Coating on glass and ceramics</b>	2002
<b>M13-F03C</b>	. <b>Coating on organic substrates</b> Including polymers.	2002
<b>M13-F04</b>	<b>Post treatment of coatings</b>	1986
<b>M13-F05</b>	<b>Apparatus</b> Includes substrate holders.	2002
<b>M13-G</b>	<b>CATHODIC SPUTTERING</b>	
<b>M13-G</b>	<b>General</b>	
<b>M13-G01</b>	<b>Pretreatment</b>	1986
<b>M13-G02</b>	<b>Apparatus</b> Including target materials.	1986

<b>M13-G02A</b>	<ul style="list-style-type: none"> <li><b>Targets</b> Including materials and manufacture.</li> </ul>	2002	<b>M13-L</b>	<b>CONTROL/TESTING</b>	
<b>M13-G02B</b>	<ul style="list-style-type: none"> <li><b>Magnetrons (in sputtering apparatus)</b> See also V05-C codes.</li> </ul>	2007	<b>M13-L</b>	<b>General</b>	1972
<b>M13-G03</b>	<b>Sputtering on metallic surfaces</b>	2002	<b>M13-M</b>	<b>PROTECTIVE LAYERS</b>	
<b>M13-G04</b>	<b>Sputtering on non-metallic surfaces</b>	2002	<b>M13-M</b>	<b>General</b>	2002
<b>M13-G05</b>	<b>Post treatment of coatings</b>	2013	<b>M13-M01</b>	<b>Thermal barrier coating</b>	2002
<b>M13-H</b>	<b>OTHER COATING METHODS</b>		<b>M13-M02</b>	<b>Wear resistant</b> Includes abrasion resistant coating.	2006
<b>M13-H01</b>	<b>Cladding</b> Including weld deposition.	1972	<b>M13-M03</b>	<b>Oxidation resistant</b>	2012
<b>M13-H02</b>	<b>Sintering on</b>	1972			
<b>M13-H03</b>	<b>Using adhesives</b>	1972			
<b>M13-H04</b>	<b>Ceramic coatings, general</b>	1972			
<b>M13-H04A</b>	<ul style="list-style-type: none"> <li><b>Powder coatings</b></li> </ul>	2006			
<b>M13-H05</b>	<b>Plastics coating, general</b>	1972			
<b>M13-H05A</b>	<ul style="list-style-type: none"> <li><b>Powder coatings</b></li> </ul>	2006			
<b>M13-H06</b>	<b>Electrostatic coating, general</b>	1972			
<b>M13-H</b>	<b>General and unclassified</b>				
<b>M13-J</b>	<b>ENAMELLING AND VITREOUS COATING</b>				
<b>M13-J01</b>	<b>Pre-treatment of surface</b>				
<b>M13-J02</b>	<b>Enamelling/coating</b>				
<b>M13-J03</b>	<b>After treatment</b> Including de-enamelling.				
<b>M13-J</b>	<b>General and unclassified</b>	1972			
<b>M13-K</b>	<b>OIL-FREE LUBRICANT AND FRICTION COATINGS</b>				
<b>M13-K</b>	<b>General</b>				
<b>M13-K01</b>	<b>Lubricant coatings</b> Including Teflon® coatings.	2002			
<b>M13-K02</b>	<b>Friction</b> Including coatings for bearings.	2002			

## M14 OTHER CHEMICAL METAL SURFACE TREATMENT

<b>M14-A</b>	<b>ETCHING</b>	
<b>M14-A</b>	<b>General</b>	
<b>M14-A01</b>	<b>Mechanical processes</b>	1986
<b>M14-A02</b>	<b>Chemical processes</b>	1986
<b>M14-A03</b>	<b>Etching media</b> Including aqueous and gaseous compositions.	1986
<b>M14-A04</b>	<b>Laser or ion beam processes</b>	1994
<b>M14-B</b>	<b>BRIGHTENING</b>	
<b>M14-B</b>	<b>General</b>	
<b>M14-C</b>	<b>COLOURED LAYERS</b>	
<b>M14-C</b>	<b>General</b> For anodising of metals see M11-E01 instead.	
<b>M14-D</b>	<b>NON-METALLIC LAYERS BY SURFACE REACTION</b>	
<b>M14-D</b>	<b>General</b>	
<b>M14-D01</b>	<b>Oxide layers</b>	
<b>M14-D02</b>	<b>Phosphate layers</b>	
<b>M14-D03</b>	<b>Chromate layers</b>	1972
<b>M14-E</b>	<b>ANODIC PROTECTION</b>	
<b>M14-E</b>	<b>General</b>	
<b>M14-F</b>	<b>CORROSION INHIBITORS</b>	
<b>M14-F</b>	<b>General</b>	
<b>M14-F01</b>	<b>Organic</b>	
<b>M14-F02</b>	<b>Inorganic</b>	
<b>M14-G</b>	<b>CATHODIC PROTECTION</b>	
<b>M14-G</b>	<b>General</b>	
<b>M14-G01</b>	<b>Impressed EMF</b>	2002
<b>M14-G02</b>	<b>Passive systems</b> includes sacrificial anodes.	2002
<b>M14-H</b>	<b>MULTISTAGE CHEMICAL/PHYSICAL PROCESSES</b>	
<b>M14-H</b>	<b>General</b>	

<b>M14-J</b>	<b>CORROSION TESTING, CONTROL, ETC.</b>	
<b>M14-J</b>	<b>General</b>	1972
<b>M14-K</b>	<b>CORROSION PROTECTION</b>	
<b>M14-K</b>	<b>General</b> Includes plastic wrapping.	1972

## M21 MECHANICAL WORKING OF METAL - WITHOUT METAL REMOVAL

<b>M21-A</b>	<b>ROLLING METAL STOCK</b>	
<b>M21-A</b>	<b>General</b>	
<b>M21-A01</b>	<b>Rolling mills and methods, general and unclassified</b>	
<b>M21-A01A</b>	. <b>Hot rolling</b>	2002
<b>M21-A01B</b>	. <b>Cold rolling</b>	2002
<b>M21-A02</b>	<b>Rolling mill stands, components</b> Including gears, bearings, etc.	
<b>M21-A02A</b>	. <b>Rolls</b> Including production of composite rolls, treatments such as grinding, polishing, heat, blooming.	1986
<b>M21-A02A1</b>	.. <b>Cleaning rolls</b> Includes servicing.	2011
<b>M21-A03</b>	<b>Tube and pipe mills</b>	
<b>M21-A03A</b>	. <b>Strip, bar and wire (rod) mills</b>	1986
<b>M21-A03B</b>	. <b>Sheet, band and plate mills</b>	1986
<b>M21-A04</b>	<b>Feeding devices for mills</b>	
<b>M21-A05</b>	<b>Coilers, take-offs and cooling beds</b>	
<b>M21-A05A</b>	. <b>Descaling</b>	2002
<b>M21-A06</b>	<b>Rolling lubricants</b>	
<b>M21-A07</b>	<b>Control mechanisms and processes</b> Including speed, tension, width, thickness, etc.	1986
<b>M21-B</b>	<b>PRODUCTION OF METAL SHEET, WIRE ROD, TUBE OR PROFILE OTHER THAN BY ROLLING</b>	
<b>M21-B</b>	<b>General</b>	
<b>M21-B01</b>	<b>Metal drawing</b>	
<b>M21-B01A</b>	. <b>Processes</b>	1986
<b>M21-B01B</b>	. <b>Equipment</b> Including dies, holders, mandrels, tools, etc.	1986
<b>M21-B02</b>	<b>Metal extrusion</b>	
<b>M21-B02A</b>	. <b>Processes</b>	1986
<b>M21-B02B</b>	. <b>Auxiliary processes</b> Including feeding and take off, heating of tools and containers, etc.	1986
<b>M21-B02C</b>	. <b>Equipment</b>	1986
<b>M21-B02D</b>	. <b>Control devices, regulating devices etc.</b>	1986
<b>M21-B03</b>	<b>Metal working lubricants</b>	
<b>M21-B04</b>	<b>Tube bending, expanding etc.</b>	1972
<b>M21-C</b>	<b>PRODUCTION OF SEAMED, FINNED OR RIBBED TUBE</b>	
<b>M21-C</b>	<b>General</b>	
<b>M21-D</b>	<b>HIGH ENERGY RATE FORMING</b>	
<b>M21-D</b>	<b>General</b> Includes explosive forming.	
<b>M21-E</b>	<b>WORKING SHEET METAL</b>	
<b>M21-E</b>	<b>General</b>	
<b>M21-E01</b>	<b>Bending, corrugating, flanging, straightening</b>	
<b>M21-E02</b>	<b>Punching, stamping and pressing</b>	
<b>M21-E03</b>	<b>Deep drawing, spinning, stretch forming</b>	
<b>M21-E04</b>	<b>Making sheet metal structures</b>	1972
<b>M21-F</b>	<b>WORKING WIRE</b>	
<b>M21-F</b>	<b>General</b>	
<b>M21-G</b>	<b>PRODUCTION OF PINS, NEEDLES, NAILS, FASTENERS</b>	
<b>M21-G</b>	<b>General</b>	
<b>M21-H</b>	<b>MAKING SPECIFIC ROLLED PRODUCTS</b>	
<b>M21-H</b>	<b>General</b>	
<b>M21-H01</b>	<b>Making sheet metal structures</b> Of specified cross-section e.g. H-beam, I-beam.	2002
<b>M21-J</b>	<b>FORGING, HAMMERING, PRESSING, RIVETING</b>	
<b>M21-J</b>	<b>General</b>	
<b>M21-J01</b>	<b>Processes</b>	1986



<b>M21-J02</b>	<b>Equipment</b> Including hammers, forging presses.	1986
<b>M21-J03</b>	<b>Control devices</b>	1986
<b>M21-K</b>	<b>MAKING SPECIFIC FORGED OR PRESSED PRODUCTS</b>	
<b>M21-K</b>	<b>General</b>	
<b>M21-L</b>	<b>CHAIN MAKING</b>	
<b>M21-L</b>	<b>General</b>	
<b>M21-M</b>	<b>CONTROL, TESTING</b>	
<b>M21-M</b>	<b>General</b> See M21-A01 for specific rolling method.	
<b>M21-N</b>	<b>ANCILLARY EQUIPMENT</b>	
<b>M21-N01</b>	<b>Feed and take-off equipment</b>	1972
<b>M21-N02</b>	<b>Manipulators</b>	1972
<b>M21-N03</b>	<b>Safety devices</b>	1972
<b>M21-N04</b>	<b>Furnaces, cooling beds</b>	1972
<b>M21-N05</b>	<b>Cutting</b> Including methods.	2002
<b>M21-N</b>	<b>General and unclassified</b>	1972

## M22 CASTING, POWDER METALLURGY

<b>M22-A</b>	<b>FOUNDRY MOULDING</b>
<b>M22-A</b>	<b>General</b>
<b>M22-A01</b>	<b>Mould or core composition</b>
<b>M22-A02</b>	<b>Inorganic binders</b>
<b>M22-A03</b>	<b>Organic binders</b>
<b>M22-A04</b>	<b>Surface coating mould release compositions</b>
<b>M22-B</b>	<b>MOULD MATERIAL HANDLING/DRESSING</b>
<b>M22-B</b>	<b>General</b>
<b>M22-B01</b>	<b>Mixing, grinding, kneading</b>
<b>M22-B02</b>	<b>Sieving, separating, reclaiming</b>
<b>M22-B03</b>	<b>Cooling or drying</b>
<b>M22-C</b>	<b>PATTERNS</b>
<b>M22-C</b>	<b>General</b>
<b>M22-C01</b>	<b>Lost patterns</b>
<b>M22-C02</b>	<b>Plates and core boxes</b>
<b>M22-D</b>	<b>MOULD/CORE DESIGN/PRODUCTION</b>
<b>M22-D</b>	<b>General</b>
<b>M22-E</b>	<b>MACHINES FOR MOULD/CORE MAKING</b>
<b>M22-E</b>	<b>General</b> Used in place of M22-F.
<b>M22-F</b>	<b>MOULDING MACHINES</b>
<b>M22-F</b>	<b>General</b> See also M22-E.
<b>M22-G</b>	<b>METAL CASTING</b>
<b>M22-G</b>	<b>General</b>
<b>M22-G01</b>	<b>Casting pigs for remelting, etc.</b>
<b>M22-G02</b>	<b>Casting ingots for subsequent rolling, forging</b>
<b>M22-G02A</b>	. Ingot casting methods
<b>M22-G02B</b>	. Ingot moulds, hot tops and linings
<b>M22-G03</b>	<b>Casting machines and processes</b>
<b>M22-G03A</b>	. Continuous and line casting
<b>M22-G03A1</b>	.. Moulds

<b>M22-G03A1A</b>	... Roll	2002	<b>M22-G03H</b>	. Fettling and post-treatment of castings See M24-D02 and M29-C for thermal treatment.	
<b>M22-G03A1B</b>	... Endless belt	2002	<b>M22-G03J</b>	. Control/testing of casting	1977
<b>M22-G03A2</b>	.. Withdrawal equipment	1977	<b>M22-G03K</b>	. Making specific cast products	1977
<b>M22-G03A3</b>	.. Cooling	1977	<b>M22-G03K1</b>	.. Turbine components	2002
<b>M22-G03A4</b>	.. Tundish	2002	<b>M22-G03K1A</b>	... Aerospace	2002
<b>M22-G03B</b>	. Centrifugal		<b>M22-G03K1B</b>	... Power generation	2002
<b>M22-G03C</b>	. Chill		<b>M22-G03K2</b>	.. Internal combustion engine components Includes blocks, cylinder heads and bores.	2002
<b>M22-G03C1</b>	.. Using moulds or cores with high thermal conductivity	1986	<b>M22-G03L</b>	. Directional solidification	2002
<b>M22-G03D</b>	. Die		<b>M22-G03L1</b>	.. Single crystals	2002
<b>M22-G03D1</b>	.. Methods	2002	<b>M22-G03M</b>	. Rapid solidification processes (RSPs)	2002
<b>M22-G03D2</b>	.. Apparatus	2002	<b>M22-G03M1</b>	.. Metallic glasses	2002
<b>M22-G03E</b>	. Vacuum and low pressure casting		<b>M22-G03N</b>	. Investment casting	2002
<b>M22-G03F</b>	. Other methods		<b>M22-H</b>	<b>POWDER METALLURGY</b>	
<b>M22-G03G</b>	. Ladles, casting furnaces and equipment		<b>M22-H</b>	<b>General</b>	
<b>M22-G03G1</b>	.. Nozzles, stoppers	1977	<b>M22-H01</b>	<b>Metal/alloy powders, granulates, fibres production</b> Includes production of suspensions when details of the metal powder production are given.	
<b>M22-G03G2</b>	.. Linings Includes repair	1977	<b>M22-H02</b>	<b>Powder treatment prior to use</b>	
<b>M22-G03G2A</b>	... Sacrificial	2002	<b>M22-H03</b>	<b>Sintered articles, coating manufacture</b>	
<b>M22-G03G2B</b>	... Permanent	2002	<b>M22-H03A</b>	. Compacting	
<b>M22-G03G3</b>	.. Dies, moulds etc. (other than for foundry casting)	1986	<b>M22-H03B</b>	. Sintering	
<b>M22-G03G4</b>	.. Treatment of metal in the mould while it is molten or ductile (by shaking, vibrating, using magnetic or electric fields etc.)	1986	<b>M22-H03C</b>	. Compacting and sintering	
<b>M22-G03G5</b>	.. Mould furniture Includes dams, weirs, etc.	2002	<b>M22-H03D</b>	. Fibre reinforcement	
<b>M22-G03G6</b>	.. Filters	2002	<b>M22-H03E</b>	. Post treatment/impregnation	
<b>M22-G03G7</b>	.. Mold cleaning apparatus and process	2011	<b>M22-H03F</b>	. Composite layers, materials	
<b>M22-G03G8</b>	.. Apparatus for handling molds	2011	<b>M22-H03F1</b>	.. Metal matrix composites (MMCs)	2002

<b>M22-H03F2</b>	.. Ceramic matrix composites (CMCs)	2002
<b>M22-H03G</b>	. Powder metal products	1972

## **M23 SOLDERING, WELDING**

<b>M23-A</b>	<b>SOLDERING, BRAZING</b>	
<b>M23-A</b>	General	
<b>M23-A01</b>	Metal compositions	
<b>M23-A02</b>	Flux	
<b>M23-A03</b>	Apparatus	
<b>M23-A04</b>	Methods	1986
<b>M23-A06</b>	Testing, control operations and equipment	2011
<b>M23-B</b>	<b>FLAME WELDING</b>	
<b>M23-B</b>	General	
<b>M23-B01</b>	Torches, burners, gas supply	
<b>M23-B02</b>	Machines and methods	
<b>M23-C</b>	<b>FLAME CUTTING AND SCARFING</b>	
<b>M23-C</b>	General	
<b>M23-D</b>	<b>ELECTRIC WELDING AND CUTTING</b>	
<b>M23-D</b>	General	
<b>M23-D01</b>	Arc welding/cutting, plasma arc	
<b>M23-D01A</b>	. Methods	1972
<b>M23-D01A1</b>	.. Seam welding	1986
<b>M23-D01A2</b>	.. Build up welding	1986
<b>M23-D01A3</b>	.. Submerged arc welding	1986
<b>M23-D01A4</b>	.. Specially adapted for particular articles	1986
<b>M23-D01A5</b>	.. Arc butt welding	2011
<b>M23-D01A6</b>	.. Stud welding	2012
<b>M23-D01B</b>	. Apparatus and circuits	1972
<b>M23-D01B1</b>	.. Torches, nozzles, holders	1977
<b>M23-D01B2</b>	.. Flux, gas, wire feed	1977
<b>M23-D01B3</b>	.. Circuits	1986
<b>M23-D01B4</b>	.. General apparatus	1986

<b>M23-D01C</b>	<b>. Arc welding types</b>	<b>2002</b>	<b>M23-E</b>	<b>Unclassified and general</b>
<b>M23-D01C1</b>	<b>.. Tungsten inert gas (TIG)</b> E.g. Gas tungsten-inert gas (GTAW), tungsten arc gas shield (TAGS).	<b>2002</b>	<b>M23-F</b>	<b>WELDING RODS, ELECTRODES AND FLUXES</b>
<b>M23-D01C2</b>	<b>.. Metal inert gas (MIG)</b> E.g. Metal arc gas shield (MAGS).	<b>2002</b>	<b>M23-F</b>	<b>General</b>
<b>M23-D01C3</b>	<b>.. Manual metallic arc (MMA)</b>	<b>2002</b>	<b>M23-G</b>	<b>INSPECTION AND CONTROL METHODS</b>
<b>M23-D01C4</b>	<b>.. Plasma</b>	<b>2002</b>	<b>M23-G</b>	<b>General</b>
<b>M23-D02</b>	<b>Resistance welding</b>		<b>M23-H</b>	<b>ANCILLARY EQUIPMENT</b>
<b>M23-D02A</b>	<b>. Methods</b>	<b>1972</b>	<b>M23-H</b>	<b>General</b> Includes equipment for cleaning welding devices
<b>M23-D02A1</b>	<b>.. Butt welding</b>	<b>1986</b>	<b>M23-J</b>	<b>SPECIAL WELDING FEATURES</b> <b>1972</b>
<b>M23-D02A2</b>	<b>.. Seam welding</b>	<b>1986</b>	<b>M23-J</b>	<b>General</b>
<b>M23-D02A3</b>	<b>.. Spot welding</b>	<b>1986</b>	<b>M23-K</b>	<b>SPECIALLY PROFILED EDGE PORTIONS OF WORKPIECES FOR MAKING SOLDERING OR WELDING CONNECTIONS</b> <b>2012</b>
<b>M23-D02A4</b>	<b>.. Other processes</b>	<b>1986</b>	<b>M23-K</b>	<b>General</b>
<b>M23-D02A5</b>	<b>.. Specially adapted for particular work</b>	<b>1986</b>		
<b>M23-D02B</b>	<b>. Apparatus and circuits</b>	<b>1972</b>		
<b>M23-D02B1</b>	<b>.. Circuits</b>	<b>1986</b>		
<b>M23-D02B2</b>	<b>.. General apparatus</b>	<b>1986</b>		
<b>M23-D03</b>	<b>Induction heating</b>			
<b>M23-D04</b>	<b>Electron beam</b>			
<b>M23-D05</b>	<b>Laser beam</b>			
<b>M23-D06</b>	<b>Spark erosion</b>			
<b>M23-D07</b>	<b>Electroslag welding</b>	<b>1972</b>		
<b>M23-E</b>	<b>OTHER WELDING AND CUTTING PROCESSES</b>			
<b>M23-E01</b>	<b>Forge or friction welding</b>	<b>1994</b>		
<b>M23-E02</b>	<b>Alumino-thermic and explosive welding</b>			
<b>M23-E03</b>	<b>Hard facing, general</b>	<b>1972</b>		
<b>M23-E04</b>	<b>Ultrasonic welding</b>	<b>2011</b>		

## M24 METALLURGY OF IRON AND STEEL

<b>M24-A</b>	<b>MANUFACTURE OF IRON AND STEEL</b>	
<b>M24-A01</b>	<b>Treatment of iron ores and materials</b>	
<b>M24-A01A</b>	. <b>Roasting, briquetting and sintering</b>	1986
<b>M24-A01B</b>	. <b>Treatment of cokes</b> Including coke ovens	1986
<b>M24-A02</b>	<b>Blast furnace pig manufacture</b>	
<b>M24-A02A</b>	. <b>By applying additives (fluxing agents etc.)</b>	1986
<b>M24-A02B</b>	. <b>Making slags of special composition</b>	1986
<b>M24-A02C</b>	. <b>General</b>	1986
<b>M24-A03</b>	<b>Sponge iron or liquid steel production</b>	
<b>M24-A04</b>	<b>Metallothermic processes</b>	
<b>M24-A05</b>	<b>Apparatus for iron/steel production</b>	
<b>M24-A05A</b>	. <b>Linings</b>	1986
<b>M24-A05B</b>	. <b>Cooling devices</b>	1986
<b>M24-A05C</b>	. <b>Discharge devices</b>	1986
<b>M24-A05D</b>	. <b>Tuyeres</b>	1986
<b>M24-A05E</b>	. <b>Stoves for heating blast</b>	1986
<b>M24-A05E1</b>	.. <b>Preheating, cooling or drying hot blast</b>	1986
<b>M24-A05F</b>	. <b>Charging devices</b>	2012
<b>M24-A06</b>	<b>Analysis, control and laboratory methods for refining</b>	
<b>M24-A07</b>	<b>Scrap and slag treatment</b>	1972
<b>M24-A07A</b>	. <b>Working up flue dust and scrap</b>	1986
<b>M24-A07B</b>	. <b>Working up slag</b>	1986
<b>M24-A07C</b>	. <b>Working up waste water, slurry and sludge</b>	

2011

<b>M24-A</b>	<b>Other processes</b>	
<b>M24-B</b>	<b>PROCESSING IRON AND STEEL</b>	
<b>M24-B01</b>	<b>Processing iron, (to produce)</b>	
<b>M24-B01A</b>	. <b>Pig iron</b>	
<b>M24-B01B</b>	. <b>Cast iron</b>	
<b>M24-B01C</b>	. <b>Wrought iron</b>	
<b>M24-B02</b>	<b>Processing steels, (by)</b>	
<b>M24-B02A</b>	. <b>Crucible process</b>	
<b>M24-B02B</b>	. <b>Hearth process</b>	
<b>M24-B02C</b>	. <b>Converter process</b>	
<b>M24-B02D</b>	. <b>Electro process</b>	
<b>M24-B02E</b>	. <b>Specified but unclassified</b>	
<b>M24-C</b>	<b>TREATMENT OF IRON AND STEEL MELTS</b>	
<b>M24-C01</b>	<b>Dephosphorising; desulphurising</b>	
<b>M24-C02</b>	<b>Killing</b>	
<b>M24-C03</b>	<b>Balancing</b>	
<b>M24-C04</b>	<b>Removing other impurities</b>	
<b>M24-C05</b>	<b>Inoculation and spheroidising</b> Including nodulizing treatment of molten iron.	
<b>M24-C06</b>	<b>Decarburising</b>	1986
<b>M24-C07</b>	<b>Use of slags or fluxes as treating agents</b>	1986
<b>M24-C08</b>	<b>Alloying of ferrous melts</b>	1986
<b>M24-C09</b>	<b>Apparatus for treatment of melts</b> Including lances, nozzles, stirrers, etc.	1986
<b>M24-C10</b>	<b>Degassing</b>	2012
<b>M24-C</b>	<b>General</b>	
<b>M24-D</b>	<b>CHANGING PHYSICAL PROPERTIES IRON STEEL</b>	
<b>M24-D</b>	<b>General</b>	
<b>M24-D01</b>	<b>Mechanical working</b>	
<b>M24-D01A</b>	. <b>Hot working</b>	
<b>M24-D01A1</b>	.. <b>Rolling</b>	2006
<b>M24-D01B</b>	. <b>Cold working</b>	
<b>M24-D01B1</b>	.. <b>Rolling</b>	2006

<b>M24-D01C</b>	<b>Mechanical alloying</b>	<b>2002</b>	<b>M24-F03</b>	<b>Tensile strength</b>	<b>2002</b>
<b>M24-D02</b>	<b>Heat treatment, general</b>		<b>M24-F04</b>	<b>Fracture toughness (crack resistance)</b>	<b>2002</b>
<b>M24-D02A</b>	. <b>Hardening treatments</b> E.g. tempering, surface hardening.	<b>1986</b>	<b>M24-F05</b>	<b>Stress corrosion cracking resistance</b>	<b>2002</b>
<b>M24-D02B</b>	. <b>Annealing</b> Including normalising, stress relieving, etc.	<b>1986</b>	<b>M24-F06</b>	<b>Ductility</b>	<b>2002</b>
<b>M24-D02C</b>	. <b>Using heat treatment baths</b> i.e. salt baths, oil baths, metal baths and fluidised beds.	<b>1986</b>	<b>M24-F07</b>	<b>Yield strength</b>	<b>2013</b>
<b>M24-D02D</b>	. <b>Multistage processes</b>	<b>1986</b>			
<b>M24-D03</b>	<b>Heat treatment of specific articles</b>				
<b>M24-D04</b>	<b>Heat treatment apparatus</b>				
<b>M24-D04A</b>	. <b>Furnaces for ingots</b> e.g. soaking pits.	<b>1986</b>			
<b>M24-D04B</b>	. <b>Furnaces for treating strip, wire or sheet</b>	<b>1986</b>			
<b>M24-D04C</b>	. <b>Furnaces, coilers</b>	<b>1986</b>			
<b>M24-D04D</b>	. <b>Other furnaces</b>	<b>1986</b>			
<b>M24-D04E</b>	. <b>Quenching baths</b>	<b>1986</b>			
<b>M24-D04F</b>	. <b>Multistage processes</b>	<b>1986</b>			
<b>M24-D05</b>	<b>Removal of non-metals by diffusion</b>				
<b>M24-D06</b>	<b>Special physical methods</b> E.g. peening.	<b>1972</b>			
<b>M24-D07</b>	<b>Process control or regulation for heat treatment</b>	<b>1986</b>			
<b>M24-E</b>	<b>CONTROL/TESTING METHODS</b>				
<b>M24-E</b>	<b>General</b>				
<b>M24-F</b>	<b>IMPROVING SPECIFIED MECHANICAL PROPERTIES</b>				
<b>M24-F</b>	<b>General</b>	<b>2002</b>			
<b>M24-F01</b>	<b>Creep resistance</b>	<b>2002</b>			
<b>M24-F02</b>	<b>Fatigue resistance</b>	<b>2002</b>			

## M25 NON-FERROUS METAL PRODUCTION/REFINING

<b>M25-A</b>	<b>GENERAL ORE TREATMENT</b>	
<b>M25-A01</b>	<b>Concentration</b>	
<b>M25-A01A</b>	. <b>By dry methods</b>	1986
<b>M25-A01B</b>	. <b>By wet methods</b> Including flotation.	1986
<b>M25-A02</b>	<b>Crushing, roasting, briquetting, sintering</b>	
<b>M25-A</b>	<b>Other processes</b>	
<b>M25-B</b>	<b>WET EXTRACTION OF METALS AND METAL COMPOUNDS</b>	
<b>M25-B</b>	<b>General</b>	
<b>M25-B01</b>	<b>Precipitation as an insoluble compound</b> E.g. hydrolysis.	1986
<b>M25-B02</b>	<b>Reduction with hydrogen or metal causing metal precipitation from solution</b>	1986
<b>M25-B02A</b>	. <b>Using metal chlorides</b> E.g. for Ti production.	2002
<b>M25-B03</b>	<b>Ion exchange</b> Including absorption on resin.	1986
<b>M25-B04</b>	<b>Solvent extraction</b> i.e. complexing by organic reagents.	1986
<b>M25-C</b>	<b>DRY REDUCTION TO METAL</b>	
<b>M25-C</b>	<b>General</b>	
<b>M25-C01</b>	<b>Apparatus</b>	1972
<b>M25-C02</b>	<b>Methods</b>	1972
<b>M25-D</b>	<b>REDUCTION OF METAL CARBONYLS</b>	
<b>M25-D</b>	<b>General</b>	
<b>M25-E</b>	<b>WORKING UP SCRAP, FLUE DUST OR SLAG</b>	
<b>M25-E</b>	<b>General</b>	
<b>M25-E01</b>	<b>Working up of waste water, waste slurry or sludge</b>	1986

<b>M25-E02</b>	<b>Working up scrap, flue dust or slag</b>	2002
<b>M25-F</b>	<b>REFINING BY OTHER METHODS</b>	
<b>M25-F</b>	<b>General</b>	
<b>M25-F01</b>	<b>Vacuum refining</b>	2005
<b>M25-F02</b>	<b>Bioremediation using microorganisms</b>	2005
<b>M25-F03</b>	<b>Phytoremediation and phytomining</b>	2005
<b>M25-F04</b>	<b>Low gravity and zero gravity processing</b>	2005
<b>M25-G</b>	<b>OBTAINING SPECIFIC METALS</b>	
<b>M25-G</b>	<b>General</b>	
<b>M25-G01</b>	<b>Aluminium</b>	
<b>M25-G02</b>	<b>Antimony</b>	
<b>M25-G03</b>	<b>Arsenic</b>	
<b>M25-G04</b>	<b>Alkali metal</b>	
<b>M25-G05</b>	<b>Alkaline earth metal</b>	
<b>M25-G06</b>	<b>Beryllium</b>	
<b>M25-G07</b>	<b>Bismuth</b>	
<b>M25-G08</b>	<b>Copper</b>	
<b>M25-G09</b>	<b>Cadmium</b>	
<b>M25-G10</b>	<b>Chromium</b>	
<b>M25-G11</b>	<b>Cobalt</b>	
<b>M25-G12</b>	<b>Germanium</b>	
<b>M25-G13</b>	<b>Indium</b>	
<b>M25-G14</b>	<b>Lead</b>	
<b>M25-G15</b>	<b>Mercury</b>	
<b>M25-G16</b>	<b>Magnesium</b>	
<b>M25-G17</b>	<b>Manganese</b>	
<b>M25-G18</b>	<b>Molybdenum</b>	
<b>M25-G19</b>	<b>Nickel</b>	
<b>M25-G20</b>	<b>Noble metals</b> Excluding Ag - see M25-G22.	
<b>M25-G21</b>	<b>Rare earths</b>	
<b>M25-G22</b>	<b>Silver</b>	
<b>M25-G23</b>	<b>Tin</b>	
<b>M25-G24</b>	<b>Titanium</b>	
<b>M25-G25</b>	<b>Uranium</b>	

<b>M25-G26</b>	<b>Vanadium</b>	
<b>M25-G27</b>	<b>Zinc</b>	
<b>M25-G28</b>	<b>Other metals</b>	
<b>M25-H</b>	<b>ANALYSIS, CONTROL AND LABORATORY METHODS</b>	
<b>M25-H</b>	<b>General</b>	
<b>M25-J</b>	<b>APPARATUS FOR NON-FERROUS METAL PRODUCTION</b>	1972
<b>M25-J</b>	<b>General</b>	
<b>M25-X</b>	<b>OTHER NON-FERROUS METAL PROCESSING</b>	
<b>M25-X</b>	<b>General and unclassified</b>	1986

## M26 NON-FERROUS ALLOYS

The following terminal code letters may be used to indicate important alloying elements: A = Al, Sb, As; B = Ba, Bi, Be, B; C = C, Cu, Cd, Cr, Co, Ca; H = H, Hf; J = In, Fe; L = Li, Pb; M = Hg, Mg, Mn, Mo; N = N, Ni, noble metals, Nb; O = O; P = K, P; R = Rare earth metals; S = Si, Na, S; T = Ta, Sn, Th, Ti, W; U = U; V = V; Z = Zn, Zr; X = other specified elements.

<b>M26-A</b>	<b>ALLOY PRODUCTION AND TREATMENT</b>	
<b>M26-A01</b>	<b>By melting</b>	
<b>M26-A02</b>	<b>By pressing or sintering</b> Includes casting.	
<b>M26-A03</b>	<b>Removing material from alloys to produce different alloys</b>	
<b>M26-A04</b>	<b>Mechanical alloying</b>	2002
<b>M26-A</b>	<b>By other methods</b>	
<b>M26-B</b>	<b>ALLOYS BASED ON PARTICULAR METALS</b>	
<b>M26-B01</b>	<b>Noble metal</b>	
<b>M26-B02</b>	<b>Mercury</b> E.g. amalgams.	
<b>M26-B03</b>	<b>Copper</b>	
<b>M26-B04</b>	<b>Lead</b>	
<b>M26-B05</b>	<b>Tin</b>	
<b>M26-B06</b>	<b>Titanium or zirconium</b>	
<b>M26-B07</b>	<b>Zinc or cadmium</b>	
<b>M26-B08</b>	<b>Nickel or cobalt</b>	
<b>M26-B09</b>	<b>Aluminium</b>	
<b>M26-B10</b>	<b>Magnesium</b>	
<b>M26-B11</b>	<b>Beryllium</b>	
<b>M26-B12</b>	<b>Hard alloys based on carbides, nitrides, borides, silicides, etc.</b>	
<b>M26-B13</b>	<b>Based on other high melting or refractory metals</b>	
<b>M26-B14</b>	<b>Lithium</b>	2002
<b>M26-B15</b>	<b>Gallium</b>	2002
<b>M26-B16</b>	<b>Rare earth metals</b>	2002
<b>M26-B17</b>	<b>Alkali(ne) metals</b> For magnesium and lithium alloys, see M26-B10 and M26-B14 respectively.	2011



<b>M26-B18</b>	<b>Manganese</b>	2011
<b>M26-B</b>	<b>General and others</b>	
<hr/>		
<b>M26-C</b>	<b>SPECIAL ALLOYS</b>	
<b>M26-C01</b>	<b>Amorphous alloys, glassy</b>	2002
<b>M26-C02</b>	<b>Nanophase alloys (nanocrystalline)</b>	2002
<b>M26-C03</b>	<b>Shape memory</b>	2002
<b>M26-C04</b>	<b>Single crystalline alloy</b>	2013

## M27 FERROUS ALLOYS

Used in preference to codes in the M24 section when a specific iron alloy or steel is concerned. The following terminal code letters may be used to indicate important alloying elements: A = Al, Sb, As; B = Ba, Bi, Be, B; C = Cu, Cd, Cr, Co, Ca; J = In, Fe; L = Pb; M = Hg, Mg, Mn, Mo; N = Ni, noble metals, Nb; P = K, P; S = Si, Na, S; T = Ta, Sn, Ti, W; U = U; V = V; Z = Zn, Zr; X = other specified elements.

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<b>M27-A</b>	<b>ALLOYS</b>
<b>M27-A01</b>	<b>Production</b>
<b>M27-A02</b>	<b>Master alloys</b>
<b>M27-A03</b>	<b>Cast iron alloys</b> >2 wt. % C.
<b>M27-A04</b>	<b>Steel alloys</b>
<b>M27-A</b>	<b>Other alloys</b>
<hr/>	
<b>M27-B</b>	<b>TREATMENT</b>
<b>M27-B01</b>	<b>Production</b>
	1970-2009
<b>M27-B02</b>	<b>Master alloys</b>
<b>M27-B03</b>	<b>Cast iron alloys</b>
<b>M27-B04</b>	<b>Steel alloys</b>
<b>M27-B</b>	<b>Other alloys</b>
<hr/>	
<b>M27-C</b>	<b>CARBON STEEL</b>
	For C contents above 2 wt.%, see M27-A3
<b>M27-C01</b>	<b>Ultra-low C content (&lt;0.03 wt. %)</b>
	2002
<b>M27-C02</b>	<b>Low C content (0.03-0.3 wt.%)</b>
	2002
<b>M27-C03</b>	<b>Medium C content (0.3-0.7 wt.%)</b>
	2002
<b>M27-C04</b>	<b>High C content (0.7-1.7 wt.%)</b>
	2002
<b>M27-C05</b>	<b>Very high C content (&gt;1.7 wt.%)</b>
	2012
<hr/>	
<b>M27-D</b>	<b>SPECIAL ALLOYS</b>
<b>M27-D01</b>	<b>Stainless steels</b>
	2002
<b>M27-D02</b>	<b>Mechanically alloyed</b>
	2002
<b>M27-D03</b>	<b>Nanophase alloys</b>
	2012
<b>M27-D04</b>	<b>Amorphous alloys</b>
	2011
<b>M27-D05</b>	<b>Shape memory alloys</b>
	2011

## M28 ELECTROLYTIC/ ELECTROTHERMIC PRODUCTION/ REFINING METALS

M28-A	METALS, ALLOYS BY SOLUTION ELECTROLYSIS	
M28-A	General Including Hall-Heroult process for Al production.	
M28-B	METALS, ALLOYS BY FUSED ELECTROLYTE ELECTROLYSIS	
M28-B	General	
M28-C	ELECTROLYTIC CELL PRODUCTION	
M28-C	General	
M28-C01	Electrodes	1986
M28-C02	Operating and servicing	1986
M28-C03	Construction and assembly of cells	1986
M28-D	METAL POWDER OR POROUS METAL BY ELECTROLYSIS	
M28-D	General	
M28-E	ELECTROTHERMIC TREATMENT ORES, METALS, ALLOYS	
M28-E	General	
M28-F	OTHER ELECTRICAL METAL REFINING PROCESSES	
M28-F	General and unclassified	

## M29 CHANGING PHYSICAL STRUCTURE NON- FERROUS METALS ALLOYS

M29-A	MECHANICAL WORKING, HOT	
M29-A	General	
M29-B	MECHANICAL WORKING, COLD	
M29-B	General	
M29-C	HEAT TREATMENT	
M29-C	General	
M29-C01	Of specific articles	1972
M29-C02	Apparatus	1972
M29-D	SPECIAL PHYSICAL METHODS	
M29-D	General	
M29-E	OTHER NON-FERROUS METAL TREATMENT AND TESTING	
M29-E	General and unclassified (including testing non-ferrous alloys)	1994
M29-F	IMPROVING SPECIFIED MECHANICAL PROPERTIES	
M29-F	General	2002
M29-F01	Creep resistance	2002
M29-F02	Fatigue resistance	2002
M29-F03	Tensile strength	2002
M29-F04	Fracture toughness (crack resistance)	2002
M29-F05	Stress corrosion cracking resistance	2002
M29-F06	Ductility	2002
M29-F07	Yield strength	2013

**N:  
CATALYSTS**

- N01 Alkali(ne) Earth Metal, B, Al, Si: Element, (Hydr)oxide, Inorganic Salt, Carboxylate
- N02 Fe, Co, Ni, Cu, Noble Metal: Element, (Hydr)oxide, Inorganic Salt, Carboxylate
- N03 Other Metal, As: Element, (Hydr)oxide, Inorganic Salt, Carboxylate
- N04 C, N, O, P, S, Se, Te, Halogen: Element, Inorganic Compound
- N05 Metal Hydride, Co-ordination Complex, Organic Compound excluding Carboxylate
- N06 Molecular Sieve, Zeolite, Special Form, General
- N07 Catalyst Applications and Uses

**N: CATALYSTS**

Any catalysts mentioned in an abstract in Section B, C, D, E, H, J, K, L, M are coded in Section N according to their chemical composition; while absorbents, non-catalytic reactants and unspecified 'acidic' or 'basic' catalysts are not coded though these latter may receive a general (N06) code. If catalysts (as chemical compounds) are claimed, they are also coded in Section E unless they are metallic elements or polymers.

**Note**

1. Catalysts or supports are coded in both sections E and N if they are novel, and from 199401 they also receive the code N06-F. Those supports which are not novel but form a significant part of the invention code N06-F only, commencing 199401.
2. The term carboxylate also includes the monothio or dithio compound.
3. The terms alkoxide and aryl oxide also include the thio compounds.
4. When a specific code is searched, the corresponding generic code(s) (used for general disclosures which would otherwise require several specific codes) must also be searched for complete coverage.

Section N codes commenced at 197701.

## **N01 ALKALI(NE EARTH) METAL, B, Al, Si: ELEMENT, (HYDR)OXIDE, INORGANIC SALT, CARBOXYLATE**

<b>N01</b>	<b>GENERAL</b>	
<b>N01-A</b>	<b>Alkali metal - general</b>	
<b>N01-A01</b>	. <b>Na or K</b>	
<b>N01-B</b>	<b>Alkaline earth metal</b>	
<b>N01-C</b>	<b>Aluminium - general</b>	
<b>N01-C01</b>	. <b>Alumina-silica mixture</b> Excluding zeolite.	<b>1977-1993</b>
	<i>Now coded as: N01-C01A, N01-C01B</i>	
<b>N01-C01A</b>	.. <b>Alumina-silica mixture, aluminosilicates, clays</b> May contain alkali(ne) earth metals only.	<b>1994</b>
	<i>Previous code(s): N01-C01</i>	
<b>N01-C01B</b>	.. <b>Aluminosilicates containing/exchanged/loaded with section N02, N03 metals</b> Where appropriate, the section N02+, N03 metal code(s) are also assigned.	<b>1994</b>
	<i>Previous code(s): N01-C01</i>	
<b>N01-C02</b>	. <b>Alumina</b> Excluding N01-C01A, N01-C01B.	<b>1977</b>
<b>N01-C03</b>	. <b>Aluminum and other aluminum compounds</b> Not zeolites, aluminosilicates or alumina.	<b>2002</b>
<b>N01-D</b>	<b>B or Si</b> Excluding N01-C01.	<b>1977-1993</b>
	<i>Now coded as: N01-D01, N01-D02, N01-D03</i>	
<b>N01-D01</b>	. <b>Boron compounds</b> Boron, boron compounds (including non-zeolite borosilicates).	<b>1994</b>
	<i>Previous code(s): N01-D</i>	
<b>N01-D02</b>	. <b>Silica, silicates</b> Excluding B and Al.	<b>1994</b>
	<i>Previous code(s): N01-D</i>	

**N01-D03** . **Silicon and other silicon compounds**  
*Previous code(s): N01-D* 1994

**N02 Fe, Co, Ni, Cu, NOBLE METAL: ELEMENT, (HYDR)OXIDE, INORGANIC SALT, CARBOXYLATE**

<b>N02</b>	<b>GENERAL</b>	
<b>N02-A</b>	<b>Iron - general</b>	
<b>N02-A01</b>	. <b>Element or oxide</b>	
<b>N02-B</b>	<b>Cobalt - general</b>	
<b>N02-B01</b>	. <b>Element or oxide</b>	
<b>N02-C</b>	<b>Nickel - general</b>	
<b>N02-C01</b>	. <b>Element</b>	
<b>N02-D</b>	<b>Copper - general</b>	
<b>N02-D01</b>	. <b>Element, oxide or sulfide</b>	
<b>N02-E</b>	<b>Ru, Rh, Os, Ir, Ag, Au - general</b>	
<b>N02-E01</b>	. <b>Ru</b>	1994
	<i>Previous code(s): N02-E</i>	
<b>N02-E02</b>	. <b>Rh</b>	1994
	<i>Previous code(s): N02-E</i>	
<b>N02-E03</b>	. <b>Ag</b>	1994
	<i>Previous code(s): N02-E</i>	
<b>N02-E04</b>	. <b>Os, Ir, Au</b>	1994
	<i>Previous code(s): N02-E</i>	
<b>N02-F</b>	<b>Pd or Pt - general</b>	
<b>N02-F01</b>	. <b>Element on carbon</b>	
<b>N02-F02</b>	. <b>Element</b> Excluding N02-F01.	
<b>N02-F03</b>	. <b>Palladium inorganic compound</b> (not complexed)	2006
<b>N02-F04</b>	. <b>Palladium Carboxylate</b>	2006
<b>N02-F05</b>	. <b>Platinum inorganic compound</b> (not complexed)	2006
<b>N02-F06</b>	. <b>Platinum Carboxylate</b>	2006

## **N03 OTHER METAL, AS: ELEMENT, (HYDR)OXIDE, INORGANIC SALT, CARBOXYLATE**

<b>N03</b>	<b>GENERAL</b>	
<b>N03-A</b>	<b>Sc, Y, Lanthanoid, Fr, Ra, Actinoid</b>	
<b>N03-A01</b>	. <b>Sc, Y, La</b>	2006
	<i>Previous code(s): N03-A</i>	
<b>N03-A02</b>	. <b>Lanthanides - general</b>	2006
	<i>Previous code(s): N03-A</i>	
<b>N03-A02A</b>	.. <b>Ce</b>	2006
	<i>Previous code(s): N03-A</i>	
<b>N03-A02B</b>	.. <b>Other Lanthanides</b>	2006
	<i>Previous code(s): N03-A</i>	
<b>N03-A03</b>	. <b>Ra, Th, Actinoid, Fr</b>	2006
	<i>Previous code(s): N03-A</i>	
<b>N03-B</b>	<b>Ti, Zr, Hf - general</b>	
<b>N03-B01</b>	. <b>Ti</b>	1994
	<i>Previous code(s): N03-B</i>	
<b>N03-B01A</b>	.. <b>Ti - Element, (hydr)oxide including titanac acids</b>	2006
	<i>Previous codes(s): N03-B01</i>	
<b>N03-B02</b>	. <b>Zr, Hf</b>	1994
	<i>Previous code(s): N03-B</i>	
<b>N03-C</b>	<b>V, Nb, Ta, W - general</b>	
<b>N03-C01</b>	. <b>V</b>	1994
	<i>Previous code(s): N03-C</i>	
<b>N03-C02</b>	. <b>W</b>	1994
	<i>Previous code(s): N03-C</i>	
<b>N03-C03</b>	. <b>Nb, Ta</b>	1994
	<i>Previous code(s): N03-C</i>	
<b>N03-D</b>	<b>Cr, Mo - general</b>	
<b>N03-D01</b>	. <b>Cr</b>	1994
	<i>Previous code(s): N03-D</i>	
<b>N03-D02</b>	. <b>Mo</b>	1994
	<i>Previous code(s): N03-D</i>	
<b>N03-E</b>	<b>Mn, Tc, Re</b>	
<b>N03-F</b>	<b>Zn, Cd, Hg</b>	

<b>N03-F01</b>	. <b>Zn</b>	2006
	<i>Previous code(s): N03-F</i>	
<b>N03-F02</b>	. <b>Cd, Hg</b>	2006
	<i>Previous code(s): N03-F</i>	
<b>N03-G</b>	<b>Ga, In, Tl, Ge, Sn, Pb</b>	
<b>N03-G01</b>	. <b>In</b>	2006
	<i>Previous code(s): N03-G</i>	
<b>N03-G02</b>	. <b>Ge</b>	2006
	<i>Previous code(s): N03-G</i>	
<b>N03-G03</b>	. <b>Sn</b>	2006
	<i>Previous code(s): N03-G</i>	
<b>N03-G04</b>	. <b>Ga, Tl, Pb</b>	2006
	<i>Previous code(s): N03-G</i>	
<b>N03-H</b>	<b>As, Sb, Bi, Po</b>	

## **N04 C, N, O, P, S, Se, Te, HALOGEN: ELEMENT, INORGANIC COMPOUND**

<b>N04</b>	<b>GENERAL</b>
<b>N04-A</b>	<b>C (excluding N02-F01), N, O, H<sub>2</sub>O, H<sub>2</sub>O<sub>2</sub>, Se, Te, noble gas</b>
<b>N04-B</b>	<b>P</b>
<b>N04-C</b>	<b>S</b>
<b>N04-D</b>	<b>Halogen - general</b>
<b>N04-D01</b>	<b>. Metal halide</b>

## **N05 METAL HYDRIDE, CO- ORDINATION COMPLEX, ORGANIC COMPOUND EXCLUDING CARBOXYLATE**

<b>N05</b>	<b>GENERAL</b>	
<b>N05-A</b>	<b>H, metal hydride; metal-alkoxide, -aryl-oxide, -alkyl, -aryl</b>	
<b>N05-B</b>	<b>Carbonyl complex, pi-bond complex</b>	
<b>N05-C</b>	<b>Other co-ordination complex</b>	
<b>N05-D</b>	<b>Amine, quaternary ammonium, heterocyclic and other organic N containing compounds</b> From 2011, this code has been expanded to include all organic N compounds.	
<b>N05-E</b>	<b>Other organic compound - general</b>	
<b>N05-E01</b>	<b>. B, Si, P, As, Se, Te, metal present</b>	<b>1986</b>
<b>N05-E02</b>	<b>. S present</b>	<b>1986</b>
<b>N05-E03</b>	<b>. Other compound</b>	<b>1986</b>
<b>N05-E03A</b>	<b>.. Organic resins and other polymers</b>	<b>2010</b>
<b>N05-E04</b>	<b>. Biocatalyst</b> Biocatalysts, natural catalysts.	<b>2019</b>
<b>N05-F</b>	<b>Crown ethers</b> Crown ethers used as catalyst.	<b>2016</b>

## N06 MOLECULAR SIEVE, ZEOLITE, SPECIAL FORM, GENERAL

N06	GENERAL	
N06-A	<b>Molecular sieve; zeolite containing Al with no other metal than alkali(ne earth)</b>	
N06-B	<b>Other zeolite, general</b>	
N06-B01	. <b>Boro- or metallo-aluminosilicates</b>	1994
	<i>Previous code(s): N06-B</i>	
N06-B02	. <b>High silica zeolites</b> e.g. Silicalites.	1994
	<i>Previous code(s): N06-B</i>	
N06-B03	. <b>Phosphate or silicophosphate based molecular sieves</b> Includes aluminosilicophosphates.	2002
N06-C	<b>Special catalyst form - unclassified</b> e.g. Raney Nickel.	
N06-C01	. <b>Raney catalysts, alloys</b> e.g. Raney Ni.	2002
N06-C02	. <b>Catalytic (coated) electrodes</b>	2002
N06-C03	. <b>Catalytic membranes, diaphragms</b>	2002
N06-C04	. <b>Homogenous, soluble or liquid phase catalysts</b>	2002
N06-C05	. <b>Fixed bed catalysts</b>	2002
N06-C06	. <b>Moving, fluidised bed catalysts (attrition resistant)</b>	2002
N06-C07	. <b>Nets, meshes, gauzes, frameworks</b> Honeycomb catalysts.	2002
N06-C08	. <b>Bodies or particles with special shape or form</b>	2002
N06-C09	. <b>Nanocatalyst</b>	2010
N06-C10	. <b>Photocatalysts</b> Materials which induce photocatalytic reaction.	2022

N06-C11	. <b>MOF catalyst</b> Metal Organic Framework type compounds used as catalyst.	2023
N06-C12	. <b>Heterogenous catalyst</b>	2024
N06-C13	. <b>Heteropolyacid catalyst</b>	2024
N06-D	<b>Catalytic apparatus, testing, detection, determination</b>	
N06-E	<b>Catalyst preparation, recovery, regeneration - gen</b> Includes catalyst poisoning resistants or suppressors.	
N06-E01	. <b>Catalyst preparation, activation, pretreatment</b>	2002
N06-E02	. <b>Catalyst regeneration, reactivation</b>	2002
N06-E03	. <b>Catalyst recovery (metals, values, ligands)</b>	2002
N06-F	<b>Catalyst support</b> Indicates that a feature of the catalyst support (e.g. composition/preparation/properties) forms a significant aspect of the invention. As well as the code N06-F, novel catalyst supports also receive appropriate codes from sections E and N, whereas non-novel catalyst supports code N06-F only.	1994
N06-G	<b>Catalyst promoter</b> Includes catalyst accelerator.	2010
N06-H	<b>Phase transfer catalyst</b>	2011



## N07 Catalyst Applications and Uses

1. Used in addition to the N01-N06 codes for process patents
2. Can be used without N01-N06 codes, when catalytic process is defined, but catalyst is unspecific e.g. "acid catalyst".
3. Codes N07-A to N07-K relate to Catalytic Reactions whereas code N07-L relate to Other Catalytic Applications and Uses.

<b>N07</b>	<b>GENERAL, UNCLASSIFIED, NO SPECIFIC REACTION REPORTED</b>	2002
<b>N07-A</b>	<b>Catalytic reactions, General</b>	2002
<b>N07-B</b>	<b>Hydrogenation, hydrogenesis, reduction</b>	2002
<b>N07-B01</b>	. <b>Hydrogenation of unsaturated C-C bonds</b>	2006
<b>N07-B02</b>	. <b>Hydrogenation other</b>	2006
<b>N07-C</b>	<b>Oxidation, dehydrogenation - general or unclassified</b>	2002
<b>N07-C01</b>	. <b>Oxidation with O<sub>2</sub>, air</b>	2002
<b>N07-C02</b>	. <b>Dehydrogenation of C-C bonds</b>	2006
<b>N07-C03</b>	. <b>Other oxidation, dehydrogenation process</b>	2006
<b>N07-D</b>	<b>Addition/substitution reactions - general or unclassified</b>	2002
<b>N07-D01</b>	. <b>Oligomerisation, telomerisation</b>	2002
<b>N07-D01A</b>	.. <b>Dimerisation</b>	2022
<b>N07-D02</b>	. <b>Addition reactions of CO and/or CO<sub>2</sub>: general or unclassified</b>	2002
<b>N07-D02A</b>	.. <b>Addition of CO to olefinic bonds: oxo reaction, hydroformylation, etc.</b>	2002
<b>N07-D02B</b>	.. <b>Other addition reactions of CO(2)</b>	2002

<b>N07-D03</b>	. <b>Alkylation, arylation, acylation of C-Atoms</b>	2002
<b>N07-D04</b>	. <b>Condensation reactions; other C-C chain extension</b>	2002
<b>N07-D05</b>	. <b>Hydration, hydroxylation</b>	2002
<b>N07-D06</b>	. <b>Etherification, acetalisation, O-alkylation</b>	2002
<b>N07-D07</b>	. <b>Esterification, O-acylation, anhydride formation</b>	2002
<b>N07-D08</b>	. <b>Addition of nitrogenous functions - general or unclassified</b>	2002
<b>N07-D08A</b>	.. <b>Amination, N-alkylation, N-acylation</b>	2002
<b>N07-D08B</b>	.. <b>Ammonoxidation (ammonia-oxidation) of organics (oxidn. of NH<sub>3</sub>, see N07-J, inorganic reactions)</b>	2006
<b>N07-D08C</b>	.. <b>Nitration</b>	2006
<b>N07-D08D</b>	.. <b>Amidine or guanidine formation</b> Reactions involving formation of amidine or guanidine group which may be cyclic or acyclic.	2016
<b>N07-D08E</b>	.. <b>Other specific nitrogenous function formations</b> Formation of azo or azide and other specific nitrogenous functions not covered under N07-D08A to N07-D08D.	2022
<b>N07-D09</b>	. <b>(Hydro)halogenation</b>	2002
<b>N07-D10</b>	. <b>Addition of sulfur functions, e.g. sulfonation</b>	2002
<b>N07-D11</b>	. <b>Addition of boron, silicon, phosphorus and other functions</b>	2010
<b>N07-D11A</b>	.. <b>Addition of boron functions</b>	2010
<b>N07-D11B</b>	.. <b>Addition of silicon functions</b>	2010
<b>N07-D11C</b>	.. <b>Addition of phosphorus functions</b>	2010
<b>N07-D11D</b>	.. <b>Addition of other functions</b>	2010

<b>N07-E</b>	<b>Isomerisation and exchange reactions - general or unclassified</b> 2002	<b>N07-F07A</b>	<b>.. Carbocyclic cyclisation</b> Formation of carbocyclic rings. 2021
<b>N07-E01</b>	<b>. Isomerisation, metathesis, disproportionation of olefinic compounds</b> 2002	<b>N07-F07B</b>	<b>.. Heterocyclic cyclisation</b> Formation of heterocyclic rings. 2021
<b>N07-E02</b>	<b>. Isomerisation reactions of other hydrocarbons; reforming</b> 2002	<b>N07-F08</b>	<b>. Decyclisation</b> 2006
<b>N07-E03</b>	<b>. Transesterification, ether/acetal exchange</b> 2002	<b>N07-F09</b>	<b>. Elimination/cleavage of N functions</b> 2010
<b>N07-E04</b>	<b>. Racemisation</b> 2002	<b>N07-F11</b>	<b>. Desulfurization</b> Applied where desulfurization takes place within the molecule to give a new product. 2014
<b>N07-E05</b>	<b>. Rearrangement reactions</b> Any rearrangement reaction which gives a non-isomeric product e.g. Beckmann rearrangement. 2016	<b>N07-G</b>	<b>Electrocatalytic reactions</b> 2002
<b>N07-E06</b>	<b>. Asymmetric/enantioselective synthesis</b> Catalytic reactions in which single reactants forms unequal mixture of stereoisomers or any one of specific isomer product. 2016	<b>N07-H</b>	<b>Co-ordination complex, organometallic complex, and salt formation reaction</b> Includes salts of organic ammonium compounds and salts of alcohols and counterions. 2014
<b>N07-F</b>	<b>Elimination/cleavage reactions - general or unclassified</b> 2002	<b>N07-J</b>	<b>Catalyst use in the production of inorganics</b> 2002
<b>N07-F01</b>	<b>. Decarboxylation, decarbonylation</b> 2002	<b>N07-K</b>	<b>Other chemical reactions</b> 2002
<b>N07-F02</b>	<b>. Dealkylation, cracking, depolymerisation, other C-C bond</b> 2002	<b>N07-K01</b>	<b>. Catalyst for green chemistry</b> Catalyst used in an environmentally-friendly process or in degradation of pollutants. 2010
<b>N07-F03</b>	<b>. De(hydro)halogenation</b> 2002	<b>N07-L</b>	<b>Other catalyst applications and uses - unclassified</b> 2002
<b>N07-F04</b>	<b>. Ring expansion, contraction cleavage</b> 2002	<b>N07-L01</b>	<b>. Purification/waste disposal processes - unclassified</b> 2002
<b>N07-F05</b>	<b>. Chain expansion/contraction</b> 2006	<b>N07-L01A</b>	<b>.. Catalytic combustion/oxidation of waste</b> 2002
<b>N07-F06</b>	<b>. Hydrolysis, dehydration, dehydroxylation</b> 2010	<b>N07-L01B</b>	<b>.. Water purification; wastewater treatment</b> 2002
<b>N07-F06A</b>	<b>.. Hydrolysis</b> 2010	<b>N07-L01B1</b>	<b>... Industrial effluent treatment</b> Mechanism and process used to treat waters that have been contaminated by industrial or commercial activity. 2011
<b>N07-F06B</b>	<b>.. Dehydration, dehydroxylation</b> 2010	<b>N07-L01C</b>	<b>.. Gas purification; waste gas treatment</b> 2002
<b>N07-F06C</b>	<b>.. Dealkoxylation</b> Removal of alkoxy groups. 2024		
<b>N07-F07</b>	<b>. Cyclisation</b> 2006		

<b>N07-L01C1</b>	<b>... Engine exhaust treatment</b>	<b>2002</b>
<b>N07-L01D</b>	<b>.. Purification, (hydro)treatment of non-gaseous hydrocarbons</b>	<b>2002</b>
<b>N07-L01E</b>	<b>.. Purification of other substances</b>	<b>2002</b>
<b>N07-L02</b>	<b>. Removal/treatment of impurities/compounds - general</b>	<b>2002</b>
<b>N07-L02A</b>	<b>.. Removal/treatment of halogen (compounds)</b>	<b>2002</b>
<b>N07-L02B</b>	<b>.. Removal/treatment of sulfur (compounds)</b>	<b>2002</b>
<b>N07-L02C</b>	<b>.. Removal/treatment of nitrogen (compounds)</b>	<b>2002</b>
<b>N07-L02D</b>	<b>.. Removal/treatment of carbon (compounds)</b>	<b>2002</b>
<b>N07-L02E</b>	<b>.. Removal/treatment of metal (compounds)</b>	<b>2002</b>
<b>N07-L02F</b>	<b>.. Removal/treatment of other impurities/compounds</b>	<b>2002</b>
<b>N07-L03</b>	<b>. Other processes/uses; general</b>	<b>2002</b>
<b>N07-L03A</b>	<b>.. Batteries, fuels cells</b>	<b>2002</b>
<b>N07-L03B</b>	<b>.. Detection processes</b> Detection process where catalyst is used as part of detecting agent.	<b>2010</b>
<b>N07-L03C</b>	<b>.. Catalyst used in resolution</b> Catalytic process in which mixture of optical isomer is separated into D- and L form.	<b>2022</b>

## **APPENDICES**

## Appendix 1 - NANOTECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to Nanotech industries.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

*Note - Items in italics are of nanotech interest but may contain details not applicable to nanotech.*

### FULLERENES

containing heteroatoms	E05-U01
carbon only	E05-U02
	L02-H04B
electroconductivity agent for polymers	A08-M09A1
thermal conductivity agent for polymers	A08-M09C1

### GRAPHENE

carbon nanofilm	E05-U05C
<i>electroconductivity agent for polymers</i>	<i>A08-M09A1</i>
<i>thermal conductivity agent for polymers</i>	<i>A08-M09C1</i>

### NANOBUDDS

carbon only	E05-U05D
inorganic	E31-U04

### NANOCATALYSTS

#### NANOCRYSTALS (NON-FERROUS ALLOYS)

#### NANOELECTROMECHANICAL DEVICE/SYSTEM

actuators	V06-M06G9
control	V06-N22A
electronic switching	U21-B01T
generators	V06-M06G8A
medical devices	S05-Y02
motors	V06-M06G9
control	V06-N22A
relays	V03-D10A
resonators	V06-V01E
	V06-V01K2
semiconductor device	U12-B03F2A
semiconductor structure	U12-B03F2
semiconductor structure, manufacture	U11-C18C
semiconductor system	U12-B03F2B
sensors	S03-H02B
	V06-V01K2
	V06-V04G
switches	V03-C10A
manufacture, testing and monitoring	V03-C07A
DNA switches	B11-C12
	C11-C12
transducers(audio)	V06-V01K2
	V06-V04A

#### NANOELECTRONIC DEVICE/SYSTEM

cathodes	
image display	V05-D05C5A
field emission device	V05-B05A5C
general	V05-M03A1
X-ray tube	V05-E01C7A
semiconductor structure, manufacture	U11-C13
	U12-E01B2
logic circuit	U21-C01T
sensors	S03-H02B

<b>NANOEMULSIONS</b>		B12-M11Q2 C12-M11Q2
<b>NANOFIBERS</b>		
	Carbon nanofibers	E05-U05B
<b>NANOFILMS</b>		E31-U03 B05-U05B C05-U05B
<b>NANOFILTERS</b>		J01-C04
<b>NANOHORNS</b>		B05-U05A C05-U05A E05-U05D E31-U04
<b>NANOIMPRINTED MAGNETIC RECORD CARRIER</b>		T03-A01G3 T03-A02G3 U11-C04J
	manufacture	
<b>NANOIMPRINT LITHOGRAPHY</b>		
<b>NANOMATERIALS</b>		
	battery electrode	X16-E01H1
	ceramics/cement	L02-A14
	conductive	L03-A02G X12-D01D X16-J01E
	electrolytes	X16-E06A1A
	fuel cell electrode	X16-C15C3A
	fuel cell storage	V04-X01B1
	general use	L03-A03N
	insulating	X12-E01D
	insulating, inorganic	X12-E02D
	insulating, organic	L03-B02N
	magnetic	V02-A10 V02-A10C V02-A10A
	magnetic, manufacture	J04-F02
	magnetic, novel	L04-A05
	production	U11-A14
	semiconductive	U11-C13
	structures	L03-A01C4 X12-D07E
	superconductive	
	superconducting wires	
<b>NANOMORPHOLOGY (COLOR CHEMISTRY)</b>		
	pigment	E27-B01A
	dye	E27-B02A
	other color chemistry	E27-B03A
<b>NANOPARTICLES</b>		B12-M11Q1 C12-M11Q1
	carbon nanoparticles	E05-U05A
	inorganic	E31-U01 V05-F08G
<b>NANOPARTICULATE PRODUCTION</b>		
<b>NANOPHASE ALLOYS</b>		
	ferrous	M27-D03
	non-ferrous	M26-C02 U12-B03F2A
<b>NANORELAYS</b>		V03-D10A V03-D06B1
<b>NANORODS</b>		B05-U05A C05-U05A
	carbon nanorods	E05-U05B
	inorganic	E31-U02
<b>NANOSPHERES</b>		
	inorganic	E31-U01

**NANOSTRUCTURES**

electrically-conductive (general)	X12-D02C2D
electrically-insulating (general)	X12-E03D
production	J04-F02
magnetic film	V02-B04
manufacture	V02-H02G
inorganic	B05-U06
	C05-U06
	E31-U
organic	E05-U
pharmaceutical (other)	B05-U05C
	C05-U05
dye or pigment bound to nanostructure	E24-U

**NANOSUSPENSIONS**

B12-M11Q3  
C12-M11Q3

**NANOTECHNOLOGY**

pharma applications (general)	B11-C12
	C11-C12
polymers application (general)	A12-W14
<b>NANOTECHNOLOGY DEVICES (THERAPEUTIC)</b>	B12-M10A7
	C12-M10A7

**NANOTUBES**

carbon only	B05-U03A
	C05-U03A
	E05-U03
	L02-H04B
	V05-B05A5C
<i>used as electroconductivity agent for polymers</i>	A08-M09A1
<i>used as thermal conductivity agent for polymers</i>	A08-M09C1
carbon plus heteroatom	B05-U04
	C05-U04
	E05-U04
other 3D structures	B05-U05A
	C05-U05A
inorganic	E31-U02
manufacture of nanotubes	X12-D07E2A

**NANOWHISKERS**

inorganic	E31-U02
organic	E05-U05B

**NANOWIRES**

inorganic	E31-U02
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## Appendix 2 - GREEN TECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to "green technologies" such as: "green" transportation, e.g. hybrid, fuel cell and other zero emissions vehicles; alternative power sources such as wind and solar power; bio-fuels and any other technologies that enable control of pollution or reduction of carbon footprints.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

*Note - Items in italics are of green interest but may contain details not applicable to green technologies.*

<b>GREEN TRANSPORTATION</b>	
<b>aircraft, muscle/pedal power</b>	X21
<b>battery charging</b>	Q25-C01G
	X16-G02
for electric vehicle	X21-B01A
for motor vehicle	X22-F01A
for railway train	X23-A03C
<b>bicycle</b>	Q19-A
	X22-P01
<b>boat</b>	Q24
animal-drawn	Q24-E02G
<b>canoe/kayak</b>	Q24-P20
electric propulsion	W06-B01C6
muscle/pedal power	Q24-E01G
wind (sail) power	Q24-E01E
	Q24-P22
<b>electric vehicle</b>	Q19-P
	X21-A01F
<b>foot propelled vehicles</b>	Q22-M
<b>fuel cell vehicle</b>	X21-A01J
<b>hybrid vehicle</b>	Q19-Q
	X21-A01D
	X22-P04
hybrid-electric	Q19-Q01
	X22-P04A
hybrid-mechanical	Q19-Q05
	X22-P04E
parallel hybrid	X21-A01D1
series hybrid	X21-A01D3
<b>regenerative braking</b>	X13-F02
	X21-A03C
<b>GREEN POWER SOURCES AND ENERGY GENERATION</b>	A12-W16
<b>battery</b>	X16
catalysts	N07-L03A
for electric vehicle	X21-B01A
<b>electricity generation</b>	
from biomass combustion	X15-E
from exercise machine	W04-X01A5
	X15-X
from vehicle movement	X15-X
from waste fuel combustion	X15-E
<b>flywheel energy storage</b>	Q54-F
	X21-B04
<b>fuel cell</b>	X16-C
	L03-E04
catalysts	N07-L03A



for vehicle	X21-B01A
polymer details	X22-F01
<b>geothermal power</b>	A12-E06
	Q54-H
	X15-G
<b>hydroelectric power</b>	X11-B
dams	X11-B
generators	X11-B
mini/micro plant	X11-B05
pumped storage	X11-B06
turbines/water wheels	X11-B01
<b>muscle power</b>	Q54-I
<b>ocean thermal energy conversion</b>	Q54-X
	X15-C
<b>osmotic power</b>	X11-B09
	X15-C
<b>profiting from waste heat</b>	X15-H
IC engine exhaust heat recovery	Q51-J02F
IC engine waste heat recovery	X22-A17
<b>power generation from traffic flow</b>	X15-T
<b>sea power</b>	X15-C
<b>salinity gradient power</b>	X11-B09
	X15-C
<b>solar power</b>	Q54-H
	U12-A02
	X15-A
for electric vehicle	X21-B04A
for motor vehicle	X22-F03
photoelectric cells	A12-E11B
solar collector	X15-A01
solar panels	U12-A02A5
	X15-A02B
	L03-E05B
polymer details	A12-R02B
<b>thermoelectric power</b>	X15-D
<b>tidal power</b>	X15-C02
<b>vortex power</b>	X11-B09
	X15-C
<b>water power</b>	X11-B
	X15-C
water turbine	Q54-A
	X11-B01
generator	X11-B
<b>wave power</b>	X15-C01
<b>wind power</b>	Q54-G
	X15-B
for boat	Q24-E01E
for electric vehicle	X21-B04A
for motor vehicle	X22-F03
<b>GREEN FOOD TECHNOLOGY</b>	D03-K13
<b>green packaging</b>	D03-K08A
<b>GREEN PACKAGING</b>	Q33-J
<b>food packaging</b>	D03-K08A
<b>packaging in general</b>	Q31 to Q34
<b>polymer packaging</b>	A12-P
biodegradable plastics	A09-A07
<b>scrap recovery/recycling of plastics</b>	A11-C03
by shredding, cutting, pulverising, granulating	A11-C03A
<b>cellulose production (incl. recycling paper bags)</b>	F05-A02B

**GREEN FUELS****biofuels**

produced from algae

B14-Y

C14-Y

**gaseous biofuels**

biogas

H06-A04

ethane

H06-A04

structural details

H06-A04

hydrogen

E10-J02D2

production by electrical means  
hydrogen generation-fuel cell

H06-A03

E31-A02A

L03-E04I

X16-C17

hydrogen reformer-fuel cell

X16-C17

hydrogen storage-fuel cell

X16-C15

molecular decomposition of  
hydrocarbons (plasmatron)

V05-F08F

methane

H06-A04

structural details

E10-J02D1

produced by fermentation

D05-C14

**liquid biofuels**

alcohol

H06-B07

bioalcohol

H06-B08

biodiesel

H06-B08

bioether

H06-B04A

butanol

H06-B07

ethanol

H06-B08

propanol

H06-B08

vegetable oil

H06-B08

H06-B04A

**solid biofuels***from municipal/agricultural*

D05-A04A

waste treatment

H09-F03

**ENVIRONMENTAL AWARENESS****Biodegradability (of plastics)**

A09-A07

**environmental vessel for collecting pollution from open water**

Q24-P06

**green agro-chemicals (general)**

C14-Y

**green catalysts**

N07-K01

**green chemistry (general)**

E11-K03

applications/compositions

E11-W

**green pharmaceuticals (general)**

B14-Y

**oil spillage cleanup waste containment**

H03-G

to prevent water contamination

D04-A05

**POLLUTION CONTROL/REDUCTION****catalytic combustion**

N07-L01A

**desulphurisation of coal**

H09-H02

**polymer application**

A12-W11

fuel vapour recovery for IC engine

Q51-H02

electrical details

X22-A02E

using coagulants/ flocculants

A12-W11E

or polyelectrolytes

other

A12-W11F

**oil refinery**

H05-L

**polymer processing**

A11-C07

**waste gas treatment**

catalyst details

N07-L01C

for engine exhaust

Q51-J02

E11-Q02A

N07-L01C1

for motor vehicle exhaust

Q17-E09

H06-C

X22-A03J

removal of N oxides

E31-H02

catalytically

E31-H01

removal of S hydride, H<sub>2</sub>S

E31-F01B

removal of S oxide SO <sub>2</sub> , SO <sub>3</sub> , SO <sub>x</sub>	E31-F01A
removal of sulfur compounds	E31-F01
H <sub>2</sub> SO <sub>4</sub> , thiosulfate	N07-L02B
<b>WATER/WASTE TREATMENT</b>	E31-F01C
<b>green water processing</b>	E11-Q02
<b>industrial waste/effluent treatment</b>	N07-L01
capacitor manufacture	D04-D
electrolytic	H09-F02
non-electrolytic	E11-Q02B
semiconductor manufacture	V01-B01G6E
resistor manufacture	V01-B04B8E
<b>municipal/agricultural waste treatment</b>	U11-C15Q
<b>polymer waste treatment</b>	L04-X02
<b>purification of non-gaseous hydrocarbons</b>	V01-A04R1
<b>removal of materials/compounds</b>	H09-F03
removal of carbon compounds	A11-C07
removal of catalyst poisons	N07-L01D
removal of impurities in general	N07-L02D
removal of halogen compounds	E11-Q02C
removal of metal compounds	N07-L02
removal of nitrogen compounds	N07-L02A
removal of sulfur compounds	N07-L02E
removal of unwanted chemical	N07-L02C
reaction byproducts	N07-L02B
	E11-Q02C
<b>sewage treatment</b>	D04-A01J
electrical systems	D04-B10
incineration of sludge	D04-B11
pyrolysis of sludge	D05-A04A
<i>organic waste, town waste or sludge fermentation</i>	X25-H03
<b>waste disposal processes/purification</b>	D04-B10B
catalytic combustion of waste	D04-B10B
<b>waste water treatment</b>	D05-A04A
waste water from paper manufacture	N07-L01
sewage sludge removal/treatment	N07-L01A
electrical systems	N07-L01B
dewatering sludge	X25-H03
<b>water treatment</b>	F05-A02C
<i>compositions</i>	D04-B10
removing coal slurry	X25-H03
removing hydrocarbons	D04-B10A
removing impurities	D04-A01J
removing inorganic cyanides	N07-L01B
removing inorganic fluorine compounds	A11-W11J
and (thio)cyanates	D04-B03
removing inorganic nitrogen compounds	D04-B03
removing inorganic phosphorous	D04-B
removing inorganic sulfur compounds	D04-B07A
removing metals	D04-B07E
heavy metals	D04-B07C
neutralising chromium	D04-B07B
removing lead	D04-B07D
removing mineral oil	D04-B05
removing natural products	D04-B05A
clarification of water containing fat	D04-B05A
	D04-B05A
	D04-B03
	D04-B04
	D04-B04

removing organic materials	D04-B06
halohydrocarbons	D04-B06E
organic dyes/brighteners	D04-B06B
phenolic compounds	D04-B06A
polymers/monomers	D04-B06D
surfactants	D04-B06C
removing radioactive materials	D04-B07
	K07-B
<b>RECYCLING/RECOVERY OF MATERIALS</b>	
<b>electrical recycling equipment</b>	X25-W04
<b>chemical extraction, recovery, purification</b>	E11-Q01
<b>polymer scrap recovery/recycling</b>	A11-C03
<b>recycling electrical components, equipment, and material</b>	V04-X01G
	L03-J01
AV equipment	W03-G10C
battery materials	X16-M
	L03-E06
capacitor materials	
electrolytic	V01-B01G6G
non-electrolytic	V01-B04B8G
copier/printer/fax/scanner parts	S06-K04C
<i>discharge tube salvaging</i>	V05-L07E6
<i>record carrier recycling and destroying</i>	
general	T03-H02R
magnetic	T03-A01R
magneto-optical	T03-D01R
optical	T03-B01R
<i>resistor materials</i>	V01-A04R2
TV receiver	W03-A19C
semiconductors	U11-H
	L04-X06
<b>recycling/recovery of ceramic</b>	L02-A01
<b>recycling/recovery of fuels</b>	H06-X03
<b>recycling/recovery of glass</b>	L01-B02
<b>recycling/recovery of paper</b>	X25-T09G
	F05-A02B
in copier/printer/fax/scanner	S06-K04A
<b>recycling/recovery of toner</b>	S06-K04B
<b>recycling waste gases</b>	
from semiconductor manufacture	L04-X03
<b>recycling waste water</b>	D04-A06
from semiconductor manufacture	L04-X02
<b>recovery of fibres</b>	F03-E02
<b>recovery of ferrous metals</b>	M24-A07
<b>recovery of non-ferrous metals</b>	M25-E
<b>recovery of organic products/waste</b>	D05-A04A
e.g. for fertilizer production	
<b>regeneration of pulp liquors during paper and fibre-board mfr.</b>	F05-A02C
<b>other</b>	J09-C01A

## Appendix 3 – GENETIC ENGINEERING

This appendix is designed as a quick reference guide for all manual codes that relate to genetic engineering.

For full details please look up the relevant code in the CPI manual.

*Note – Items in italics are of interest to genetic engineering but may also contain details not applicable to genetic engineering.*

### BIOLOGICAL MATERIALS FOR USE IN GENETIC ENGINEERING

#### newly discovered methylases

B04-L04  
C04-L04  
D05-H19A  
B04-L05A  
D05-H19A  
B04-L04A  
C04-L04A  
D05-H19B

#### newly discovered restriction endonucleases

#### new or modified DNA and RNA polymerases

### GENETIC ENGINEERING TECHNIQUES

#### Nucleic acid amplification method

production

B11-C01E  
C11-C01E  
D05-H18B  
B11-C08E3  
C11-C08E3  
B11-C08E5  
C11-C08E5  
B11-C08F8  
C11-C08F8  
B12-K04F  
C12-K04F  
D05-H09

testing

D05-H18B  
B11-C08E4  
C11-C08E4  
B11-C08F7A  
C11-C08F7A  
B12-K04F  
C12-K04F  
D05-H09  
D05-H18A

#### Nucleic acid sequencing method

### GENE DELIVERY

#### electroporation device

#### therapeutic

by non-viral methods

D05-H20

by viral methods

B12-M19B  
C12-M19B  
B12-M19A  
C12-M19A

### GENE THERAPY

#### gene therapy (general)

antisense therapy

gene therapy

RNA interference

B14-S03  
C14-S03  
B14-S03B  
C14-S03B  
B14-S03A  
C14-S03A  
B14-S03C  
B14-S03C

**NUCLEIC ACIDS****altered DNA coding sequences**

encoding antibodies	B04-E02A C04-E02A
encoding antigens	B04-E02J C04-E02J
encoding enzymes	B04-E02E C04-E02E
encoding hormones	B04-E02C C04-E02C
encoding fusion protein	B04-E02H C04-E02H D05-H12C
general	B04-E02 C04-E02
engineered mutant sequences	D05-H12B1
encoding modifiers of cell function and growth	B04-E02B C04-E02B
encoding nucleic acid	B04-E02K C04-E02K
encoding other protein/polypeptide	B04-E02F C04-E02F
oncogene	B04-E02G C04-E02G
encoding receptors	B04-E02D C04-E02D

**patent with a Geneseq record**

B04-E99  
C04-E99  
D05-H99  
B04-E08  
C04-E08  
D05-H12E

**vectors, plasmids, cosmids, transposons****PRODUCTION OF RECOMBINANT PROTEINS****fusion proteins**

comprising antibody or antibody fragments	D05-H17C D05-H17C1
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**mutant proteins/ polypeptides**

antibodies	D05-H17B1
via fermentation/large-scale isolation	<i>D05-C12</i>
antigen	D05-H17B5
via fermentation/large-scale isolation	<i>D05-C12</i>
cytokine, lymphokine, growth factor, hormone	D05-H17B2
via fermentation/large-scale isolation	<i>D05-C12</i>
enzymes	D05-H17B3
via fermentation/large-scale isolation	
coenzymes	D05-C03A
general	D05-C03
hydrolases	D05-C03C
isomerases	D05-C03F
ligases (synthetases)	D05-C03F
lyases	D05-C03E
oxidoreductases	D05-C03B
transferases	D05-C03D
general	D05-H17B
via fermentation/large-scale isolation	<i>D05-C12</i>
others	D05-H17B6
via fermentation/large-scale isolation	<i>D05-C12</i>
receptor	D05-H17B4
via fermentation/large-scale isolation	<i>D05-C12</i>
zinc finger proteins	D05-H17B7
via fermentation/large-scale isolation	D05-C12
protein/polypeptide (general)	D05-H17
via fermentation/large-scale isolation	D05-C12

**wild type proteins/ polypeptides**

antibodies		D05-H17A1
	via fermentation/large-scale isolation	D05-C12
antigen		D05-H17A5
	via fermentation/large-scale isolation	D05-C12
cytokine, lymphokine, growth factor, hormone		D05-H17A2
	via fermentation/large-scale isolation	D05-C12
enzymes		D05-H17A3
	via fermentation/large-scale isolation	
	coenzymes	D05-C03A
	general	D05-C03
	hydrolases	D05-C03C
	isomerases	D05-C03F
	ligases (synthetases)	D05-C03F
	lyases	D05-C03E
	oxidoreductases	D05-C03B
	transferases	D05-C03D
general		D05-H17A
	via fermentation/large-scale isolation	D05-C12
others		D05-H17A6
	via fermentation/large-scale isolation	D05-C12
receptor		D05-H17A4
	via fermentation/large-scale isolation	D05-C12
zinc finger proteins		D05-H17A7
	via fermentation/large-scale isolation	D05-C12

**RECOMBINANT PROTEINS****antibodies**

antibacteria		B04-G0700E
		C04-G0700E
antiblood cell		B04-G0600E
		C04-G0600E
anticancer cell		B04-G0500E
		C04-G0500E
antienzyme		B04-G0300E
		C04-G0300E
antifungus		B04-G09A0E
		C04-G09A0E
antihormone		B04-G0200E
		C04-G0200E
antimicroorganisms (other)		B04-G0900E
		C04-G0900E
antimodifier of cell function and growth		B04-G0200E
		C04-G0200E
antiparasitic		B04-G1200E
		C04-G1200E
antiplant		B04-G1000E
		C04-G1000E
anti-prion protein		B04-G2500E
		C04-G2500E
antiprotozoal		B04-G09B0E
		C04-G09B0E
antireceptor		B04-G0400E
		C04-G0400E
antivirus		B04-G0800E
		C04-G0800E
binding to another antibody		B04-G1100E
		C04-G1100E
bispecific		B04-G2400E
		C04-G2400E
catalytic		B04-G2000E
		C04-G2000E
		D05-H11C

fragments	B04-G2300E
general	C04-G2300E
	B04-G0100E
	C04-G0100E
	D05-H11
heterospecific	B04-G2600E
	C04-G2600E
human	B04-G01B0E
	C04-G01B0E
immunoglobulin A	B04-G27A0E
	C04-G27A0E
immunoglobulin D	B04-G27D0E
	C04-G27D0E
immunoglobulin E	B04-G27E0E
	C04-G27E0E
immunoglobulin G	B04-G27G0E
	C04-G27G0E
immunoglobulin M	B04-G27M0E
	C04-G27M0E
immunoglobulin W	B04-G27W0E
	C04-G27W0E
immunoglobulin X	B04-G27X0E
	C04-G27X0E
immunoglobulin Y	B04-G27Y0E
	C04-G27Y0E
monoclonal	B04-G2100E
	C04-G2100E
	D05-H11A2
murine	B04-G01D0E
	C04-G01D0E
polyclonal	B04-G2200E
	C04-G2200E
	D05-H11B
<b>enzymes, catalytic proteins</b>	
coenzymes	B04-L0200E
	C04-L0200E
dehydrogenases, reductases	B04-L03D0E
	C04-L03D0E
DNA/RNA polymerases	B04-L04A0E
	C04-L04A0E
enzymes, catalytic proteins (general and other)	B04-L0100E
	C04-L0100E
esterases (general)	B04-L05A0E
	C04-L05A0E
isomerases	B04-L0700E
	C04-L0700E
glycosidases	B04-L05B0E
	C04-L05B0E
hydrolases (general and other)	B04-L0500E
	C04-L0500E
kinases	B04-L04C0E
	C04-L04C0E
ligases	B04-L0800E
	C04-L0800E
lipoxygenases	B04-L03E0E
	C04-L03E0E
lyases	B04-L0600E
	C04-L0600E
metalloprotease	B04-L05C1E
	C04-L05C1E
oxidases	B04-L03A0E
	C04-L03A0E
oxidoreductases (general and other)	B04-L0300E



oxygenases	C04-L0300E B04-L03C0E C04-L03C0E
peroxidases	B04-L03B0E C04-L03B0E
phosphodiesterases	B04-L05A1E C04-L05A1E
proteases (general)	B04-L05C0E C04-L05C0E
reverse transcriptase	B04-L04B0E C04-L04B0E
transferases (general and other)	B04-L0400E C04-L0400E
translocases	B04-L1000E C04-L1000E
zymogen and other enzyme precursors	B04-L0900E C04-L0900E
<b>hormones</b>	
adrenocorticotrophic hormone	B04-J05D0E C04-J05D0E
antidiuretic hormone	B04-J05B0E C04-J05B0E
angiotensin	B04-J1800E C04-J1800E
calcitonin	B04-J04A0E C04-J04A0E
cholecystokinin	B04-J1300E C04-J1300E
corticotropin-releasing hormone	B04-J0600E C04-J0600E
ecdysone	B04-J1600E C04-J1600E
endorphins	B04-J1100E C04-J1100E
enkephalins	B04-J1100E C04-J1100E
gastrin	B04-J1200E C04-J1200E
gonadotropin releasing hormone	B04-J0700E C04-J0700E
gonadotropins	B04-J05H0E C04-J05H0E
glucagon	B04-J03B0E C04-J03B0E
growth hormone-releasing hormone/factor	B04-J0900E C04-J0900E
hormones (general and other)	B04-J0100E C04-J0100E
insulin	B04-J03A0E C04-J03A0E
juvenile hormone	B04-J1700E C04-J1700E
melanin concentrating hormone	B04-J1900E C04-J1900E
melanocyte stimulating hormone	B04-J05G0E C04-J05G0E
motilin	B04-J1200E C04-J1200E
neurotensin	B04-J1500E C04-J1500E
pancreatic hormone (general/other)	B04-J0300E C04-J0300E
parathyroid hormone	B04-J04B0E

pituitary gland hormones (general/other)	C04-J04B0E B04-J0500E C04-J0500E
oxytocin	B04-J05A0E C04-J05A0E
secretin	B04-J1200E C04-J1200E
somatostatin	B04-J1000E C04-J1000E
somatropin-releasing factor	B04-J0900E C04-J0900E
tachykinins	B04-J1400E C04-J1400E
thyroid and parathyroid (general/other)	B04-J0400E C04-J0400E
thyroid stimulating hormone	B04-J05F0E C04-J05F0E
thyrotropin releasing hormone	B04-J0800E C04-J0800E
<b>modifiers of cell function and growth</b>	
actin	B04-H20C1E C04-H20C1E
activin A	B04-H1800E C04-H1800E
adhesion and motor molecules (general and other)	B04-H2000E C04-H2000E
bone morphogenetic protein	B04-H06L0E C04-H06L0E
clotting factors	B04-H1900E C04-H1900E
colony stimulating factors (general)	B04-H0400E C04-H0400E
epidermal growth factor	B04-H06A0E C04-H06A0E
erythropoietin and thrombopoietin	B04-H0700E C04-H0700E
fibroblast growth factor	B04-H06G0E C04-H06G0E
fibronectin	B04-H20A0E C04-H20A0E
granulocyte colony stimulating factor	B04-H04A0E C04-H04A0E
granulocyte macrophage colony stimulating	B04-H04C0E C04-H04C0E
growth factors (general/other)	B04-H0600E C04-H0600E
hepatocyte growth factor	B04-H06K0E C04-H06K0E
integrins	B04-H2100E C04-H2100E
interferon (general and other)	B04-H0500E C04-H0500E
interferon alpha	B04-H05A0E C04-H05A0E
interferon beta	B04-H05B0E C04-H05B0E
interferon gamma	B04-H05C0E C04-H05C0E
interferon delta	B04-H05D0E C04-H05D0E
interferon kappa	B04-H05K0E C04-H05K0E
interleukin (general)	B04-H0200E

interleukin 1	C04-H0200E B04-H02A0E
interleukin 2	C04-H02A0E B04-H02B0E
interleukin 3	C04-H02B0E B04-H02C0E
interleukin 4	C04-H02C0E B04-H02D0E
interleukin 5	C04-H02D0E B04-H02F0E
interleukin 6	C04-H02F0E B04-H02G0E
interleukin 7	C04-H02G0E B04-H02H0E
interleukin 8	C04-H02H0E B04-H02J0E
interleukin 9	C04-H02J0E B04-H02K0E
interleukin 10	C04-H02K0E B04-H02L0E
interleukin 11	C04-H02L0E B04-H02M0E
interleukin 12	C04-H02M0E B04-H02N0E
interleukin 13	C04-H02N0E B04-H02P0E
interleukin 14-20	C04-H02P0E B04-H02Q0E
interleukin 21-25	C04-H02Q0E B04-H02R0E
interleukin 26-30	C04-H02R0E B04-H02S0E
interleukin 31-35	C04-H02S0E B04-H02T0E
leukemia inhibitory factor	C04-H02T0E B04-H0900E
lymphotoxin	C04-H0900E B04-H1300E
macrophage colony stimulating factor	C04-H1300E B04-H04B0E
macrophage derived growth factor	C04-H04B0E B04-H06C0E
macrophage inflammatory protein	C04-H06C0E B04-H1100E
megakaryocyte colony stimulating factor	C04-H1100E B04-H04D0E
megakaryocyte potentiator	C04-H04D0E B04-H1200E
mullerian inhibitory substance	C04-H1200E B04-H1000E
muscle proteins (general)	C04-H1000E B04-H20C0E
myosin	C04-H20C0E B04-H20C2E
nerve growth growth factor	C04-H20C2E B04-H06D0E
plasminogen activator	C04-H06D0E B04-H1500E
platelet activating factor	C04-H1500E B04-H1400E
platelet derived growth factor	C04-H1400E B04-H06B0E
	C04-H06B0E

prostatic growth factor	B04-H06J0E
	C04-H06J0E
somatomedins	B04-H06H0E
	C04-H06H0E
stem cell factor	B04-H1600E
	C04-H1600E
sulfation factors	B04-H06H0E
	C04-H06H0E
t-activin	B04-H1700E
	C04-H1700E
thymic factor	B04-H1700E
	C04-H1700E
transforming growth factor	B04-H06F0E
	C04-H06F0E
tropomyosin	B04-H20C3E
	C04-H20C3E
tumour necrosis factor	B04-H0800E
	C04-H0800E
vascular endothelial growth factor	B04-H06M0E
	C04-H06M0E
vitronectin	B04-H20B0E
	C04-H20B0E
<b>other protein/polypeptide</b>	
animal protein/polypeptide (complete sequence)	B04-N02A0E
	C04-N02A0E
animal protein/polypeptide (no sequence)	B04-N0200E
	C04-N0200E
animal protein/polypeptide (sequence fragments)	B04-N02B0E
	C04-N02B0E
bacterial protein/polypeptide (complete sequence)	B04-N03J1E
	C04-N03J1E
bacterial protein/polypeptide (no sequence)	B04-N03J0E
	C04-N03J0E
bacterial protein/polypeptide (sequence fragments)	B04-N03J2E
	C04-N03J2E
fungus protein/polypeptide (complete sequence)	B04-N03L1E
	C04-N03L1E
fungus protein/polypeptide (no sequence)	B04-N03L0E
	C04-N03L0E
fungus protein/polypeptide (sequence fragments)	B04-N03L2E
	C04-N03L2E
fusion proteins	B04-N0800E
	C04-N0800E
glycoprotein	B04-N0600E
	C04-N0600E
ion channel proteins	B04-N0700E
	C04-N0700E
lipoprotein	B04-N0500E
	C04-N0500E
microorganism protein/polypeptide (complete sequence)	B04-N03A0E
	C04-N03A0E
microorganism protein/polypeptide (no sequence)	B04-N0300E
	C04-N0300E
microorganism protein/ polypeptide (sequence fragments)	B04-N03B0E
	C04-N03B0E
molecular chaperones and chaperonins	B04-N0900E
	C04-N0900E
peptidoglycan	B04-N0600E
	C04-N0600E
plant protein/polypeptide (complete sequence)	B04-N01A0E
	C04-N01A0E
plant protein/polypeptide (no sequence)	B04-N0100E
	C04-N0100E

plant protein/polypeptide (sequence fragments)	B04-N0IB0E
prions	C04-N01B0E
	B04-N1000E
	C04-N1000E
protein/polypeptide (undefined origin) (complete sequence)	B04-N04A0E
	C04-N04A0E
protein/polypeptide (undefined origin) (no sequence)	B04-N0400E
	C04-N0400E
protein/polypeptide (undefined origin) (sequence fragments)	B04-N04B0E
	C04-N04B0E
signalling pathway proteins	B04-N1300E
	C04-N1300E
transcription factors (general)	B04-N1200E
	C04-N1200E
viral protein/polypeptide (complete sequence)	B04-N03K1E
	C04-N03K1E
viral protein/polypeptide (complete sequence)	B04-N03K0E
	C04-N03K0E
viral protein/polypeptide (sequence fragments)	B04-N03K2E
	C04-N03K2E
zinc finger proteins	B04-N1100E
	C04-N1100E
<b>patent with a Geneseq record</b>	<i>B04-E99</i>
	<i>C04-E99</i>
	<i>D05-H99</i>
<b>receptors</b>	
androgen receptors	B04-K01L1E
	C04-K01L1E
angiotensin receptor	B04-K01N0E
	C04-K01N0E
antibody receptor	B04-K01W0E
	C04-K01W0E
bacterial or bacterial antigen receptor	B04-K01T0E
	C04-K01T0E
blood cell or blood cell antigen receptor	B04-K01R0E
	C04-K01R0E
cancer cell/cancer cell antigen receptor	B04-K01S0E
	C04-K01S0E
cell, microbe or antigen receptor (other)	B04-K01V0E
	C04-K01V0E
corticosteroid receptors	B04-K01L3E
	C04-K01L3E
dopamine receptor	B04-K01C0E
	C04-K01C0E
estrogen receptors	B04-K01L2E
	C04-K01L2E
G-protein coupled receptor	B04-K01Y0E
	C04-K01Y0E
growth factor receptor	B04-K01J0E
	C04-K01J0E
histamine receptor	B04-K01F0E
	C04-K01F0E
hormone receptor (other)	B04-K01P0E
	C04-K01P0E
insulin receptor	B04-K01M0E
	C04-K01M0E
interleukin receptor	B04-K01G0E
	C04-K01G0E
leukotriene receptor	B04-K01H0E
	C04-K01H0E
lipoprotein receptor	B04-K01Q0E
	C04-K01Q0E

melanin concentrating hormone receptor	B04-K01Y1E
modifier of cell function and growth receptor (other)	C04-K01Y1E B04-K01K0E C04-K01K0E
non-steroidal nuclear (hormone) receptor	B04-K01X0E C04-K01X0E
parasympathetic receptor	B04-K01A0E C04-K01A0E
peroxisome proliferative activated receptor	B04-K01X1E C04-K01X1E
prostaglandin receptor	B04-K01H0E C04-K01H0E
receptors (general and other)	B04-K0100E C04-K0100E
serotonin receptor	B04-K01D0E C04-K01D0E
steroid receptor (general)	B04-K01L0E C04-K01L0E
steroid receptors (other)	B04-K01L4E C04-K01L4E
sympathetic receptor	B04-K01B0E C04-K01B0E
thromboxane receptor	B04-K01H0E C04-K01H0E
thyroid receptor	B04-K01X2E C04-K01X2E
viral or viral antigen receptor	B04-K01U0E C04-K01U0E

**TRANSFORMED CELLS**

cells, microorganisms, transformants, hosts, cell lines, tissue general	B04-F0100E C04-F0100E D05-H14
--	-------------------------------------

**eukaryotic cells**

algae	B04-F08A0E C04-F08A0E
amphibian	B04-F07B0E C04-F07B0E D05-H14B4
arthropod	B04-F07A0E C04-F07A0E D05-H14B1
avian	B04-F07B0E C04-F07B0E D05-H14B4
blood cells (general)	B04-F0400E C04-F0400E
cancer cells (mammalian)	B04-F02A0E C04-F02A0E D05-H14B2
carcinoma (mammalian)	B04-F02A0E C04-F02A0E D05-H14B2
chimeric cells	B04-F05A0E C04-F05A0E <i>D05-H15B</i>
fish	B04-F07B0E C04-F07B0E D05-H14B4
fungus (multicellular, non-higher)	B04-F09E0E C04-F09E0E
fused cells	B04-F05A0E C04-F05A0E <i>D05-H15B</i>

germ cells	B04-F0300E
hybridoma (general)	C04-F0300E B04-F0500E C04-F0500E
lymphocytes (general)	<i>D05-H15A</i> B04-F04B1E C04-F04B1E
mammalian (including human)	B04-F0200E C04-F0200E
other animal, non-mammalian (general)	<i>D05-H14B2</i> B04-F0700E C04-F0700E
other white blood cells (general)	<i>D05-H14B4</i> B04-F04B2E C04-F04B2E
ova	B04-F0300E C04-F0300E
plant	B04-F0800E C04-F0800E
platelets	<i>D05-H14B3</i> B04-F1300E C04-F1300E
red blood cells	B04-F04A0E C04-F04A0E
reptile	B04-F07B0E C04-F07B0E
sperm	<i>D05-H14B4</i> B04-F0300E C04-F0300E
stem cells (mammalian)	B04-F02B0E C04-F02B2E
unspecified cell lines	<i>D05-H14B2</i> B04-F0100E C04-F0100E
white blood cells (general)	<i>D05-H14B</i> B04-F04B0E C04-F04B0E
<b>microbial cells</b>	
adenovirus	B04-F11A1E C04-F11A1E
algae	<i>D05-H12F</i> B04-F08A0E C04-F08A0E
Aspergillus	B04-F09A0E C04-F09A0E
Bacillus	<i>D05-H14A2</i> B04-F10B1E C04-F10B1E
bacteria (general)	<i>D05-H14A1</i> B04-F1000E C04-F1000E
Bordetella	<i>D05-H14A1</i> B04-F10A1E C04-F10A1E
Borrelia	<i>D05-H14A1</i> B04-F10A2E C04-F10A2E
Coronavirus	<i>D05-H14A1</i> B04-F11B2E C04-F11B2E
	<i>D05-H12F</i>

DNA viruses (general)	B04-F11A0E C04-F11A0E D05-H12F
Escherichia	B04-F10A3E C04-F10A3E D05-H14A1
fungus (unicellular, general)	B04-F0900E C04-F0900E D05-H14A2
gram-negative bacteria (general/other)	B04-F10A00E C04-F10A00E D05-H14A1
gram-positive genera (general/other)	B04-F10B0E C04-F10B0E D05-H14A1
Mycobacteria	B04-F10B2E C04-F10B2E D05-H14A1
Mycoplasma	B04-F10A4E C04-F10A4E D05-H14A1
Neisseria	B04-F10A5E C04-F10A5E D05-H14A1
Neurospora	B04-F09B0E C04-F09B0E D05-H14A2
protozoa	B04-F0600E C04-F0600E D05-H14A3
Pseudomonas	B04-F10A6E C04-F10A6E D05-H14A1
retrovirus	B04-F11B1E C04-F11B1E D05-H12F
Rickettsia	B04-F10A7E C04-F10A7E D05-H14A1
RNA viruses (general)	B04-F11B0E C04-F11B0E D05-H12F
Saccharomyces	B04-F09C0E C04-F09C0E D05-H14A2
Salmonella	B04-F10A8E C04-F10A8E D05-H14A1
Staphylococcus	B04-F10B3E C04-F10B3E D05-H14A1
Streptococcus	B04-F10B4E C04-F10B4E D05-H14A1
Streptomyces	B04-F10B5E C04-F10B5E D05-H14A1
unspecified microbial cells	B04-F0100E C04-F0100E D05-H14A
Vibrio	B04-F10A9E C04-F10A9E D05-H14A1



viruses (general)	B04-F1100E C04-F1100E D05-H12F
yeast (general)	B04-F0900E C04-F0900E D05-H14A2
<b>TRANSGENIC ORGANISMS</b>	
<b>animals</b>	
arthropods	B04-P01C0E C04-P01C0E D05-H16A
farm animals	B04-P01B0E C04-P01B0E D05-H16A
general	B04-P0100E C04-P0100E D05-H16A
laboratory experimental animals	B04-P01A0E C04-P01A0E D05-H16A
<b>plants</b>	
angiosperms (general)	B04-A08G0E C04-A08G0E D05-H16B
anthocerotophyta (hornworts)	B04-A08A3E C04-A08A3E D05-H16B
ascomycota	B04-A08D1E C04-A08D1E D05-H16B
basidiomycota	B04-A08D2E C04-A08D2E D05-H16B
bryophyta (mosses)	B04-A08A2E C04-A08A2E D05-H16B
bryophytes (general)	B04-A08A0E C04-A08A0E D05-H16B
cycadophyta (cycads)	B04-A08F3E C04-A08F3E D05-H16B
dicots	B04-A08G2E C04-A08G2E D05-H16B
equisetopsida	B04-A08B2E C04-A08B2E D05-H16B
fungi (higher)	B04-A08D0E C04-A08D0E D05-H16B
general	B04-A0800E C04-A0800E D05-H16B
ginkgophyta	B04-A08F2E C04-A08F2E D05-H16B
gnetophyta	B04-A08F4E C04-A08F4E D05-H16B
gymnosperms (general)	B04-A08F0E C04-A08F0E D05-H16B

marattiopsida	B04-A08B3E C04-A08B4E D05-H16B
marchantiophyta (liverworts)	B04-A08A1E C04-A08A1E D05-H16B
monocots	B04-A08G1E C04-A08G1E D05-H16B
pinophyta (conifers)	B04-A08F1E C04-A08F1E D05-H16B
polypodiopsida	B04-A08B4E C04-A08B4E D05-H16B
psilotopsida	B04-A08B1E C04-A08B1E D05-H16B
pteridophytes (general)	B04-A08B0E C04-A08B0E D05-H16B
<b>plant extracts</b>	
bark	B04-A10H0E C04-A10H0E
bran	B04-A10G0E C04-A10G0E
cereal	B04-A10G0E C04-A10G0E
flower	B04-A10C0E C04-A10C0E
fruit	B04-A10K0E C04-A10K0E
fungi	B04-A10A0E C04-A10A0E
grain	B04-A10G0E C04-A10G0E
hay	B04-A10J0E C04-A10J0E
leaf	B04-A10B0E C04-A10B0E
nuts	B04-A10G0E C04-A10G0E
pollen	B04-A10D0E C04-A10D0E
root	B04-A10F0E C04-A10F0E
sap	B04-A10J0E C04-A10J0E
sawdust	B04-A10H0E C04-A10H0E
seed husk	B04-A10G0E C04-A10G0E
seed meal	B04-A10G0E C04-A10G0E
seed	B04-A10G0E C04-A10G0E
stem	B04-A10J0E C04-A10J0E
straw	B04-A10J0E C04-A10J0E
wood	B04-A10H0E C04-A10H0E

wood shaving	B04-A10H0E C04-A10H0E
<b>plant parts</b>	
bark	B04-A09G0E C04-A09G0E
bran	B04-A09F0E C04-A09F0E
cereal	B04-A09F0E C04-A09F0E
flowers	B04-A09B0E C04-A09B0E
fruit	B04-A09K0E C04-A09K0E
grain	B04-A09F0E C04-A09F0E
hay	B04-A09H0E C04-A09H0E
leaves	B04-A09A0E C04-A09A0E
nuts	B04-A09F0E C04-A09F0E
peat	B04-A09J0E C04-A09J0E
pollen	B04-A09C0E C04-A09C0E
roots	B04-A09D0E C04-A09D0E
sap	B04-A09H0E C04-A09H0E
sawdust	B04-A09G0E C04-A09G0E
seed husks	B04-A09F0E C04-A09F0E
seed meal	B04-A09F0E C04-A09F0E
seeds	B04-A09F0E C04-A09F0E
stems	B04-A09H0E C04-A09H0E
straw	B04-A09H0E C04-A09H0E
wood	B04-A09G0E C04-A09G0E
wood shavings	B04-A09G0E C04-A09G0E
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plants	D05-H16D

## Appendix 4: DIGITAL HEALTH

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to Digital Health or Digital Healthcare including telemedicine, health information technology, mobile health and personalized medicine.

For full details please look up the relevant codes in the CPI manual (classes A-N), and the GMPI and EPI manual (classes P-X).

### ELECTRICAL MEDICAL EQUIPMENT

<b>alarm based on medical parameter or medical failure</b>	S05-Y01
<b>built-in phone medical parameter monitoring equipment</b>	W05-B07G5
<b>electrical medical diagnosis/monitoring</b>	W01-C01P8
blood pressure monitoring	S05-D
blood flow monitoring	S05-D01B1A
diet/nutrition monitoring	S02-F04C2
heart rate monitoring	S05-D01B1B
implanted device	S05-D09
ingestible device	S05-D01B5
measuring and recording systems for bio-electric currents	S05-Y05
electrocardiography (ECG, EKG)	S05-Y05
encephalography/myography (EMG, EEG, MEG)	S05-D01A
measuring neurological/nerve stimulation	S05-D01A1
online medicine	S05-D01A2
sleep monitoring	S05-D01A
telediagnosis	T01-N01E
<b>diagnostic displays</b>	S05-D01C7
<b>hospital equipment</b>	S05-D06A
patient monitoring	S05-D07
patient monitoring from remote location	S05-G02B2
<b>pacemakers</b>	S05-G02B2A
remote programming and control	S05-A01A5A
artificial organs	B11-C04F
<b>peripheral devices for therapeutic regimens</b>	B11-C06C
<b>transmission of control or measurement signals for medical equipment</b>	W05-D07M

### FITNESS/PERFORMANCE TRACKING

<b>performance monitoring during e.g. sports training</b>	W04-A01A1
<b>physiological measurements</b>	S05-D01
<b>smart phones</b>	W01-C01G8S
<b>smart watches</b>	T01-M06A1D
<b>wearable computers</b>	S04-B09
	T01-M06A1D

### HEALTHCARE INFORMATICS - MEDICAL/HOSPITAL IT SYSTEMS

<b>computerised teaching models</b>	B11-C11B
<b>data processing for medical equipment and information systems</b>	W04-W
<b>data transfer/storage</b>	T01-J06
<b>data transmission</b>	S05-G02G3
preventing or detecting interception	W01
protecting against malicious software	W05-D05B5A
preventing or detecting unauthorized network access	W05-D05B5C
<b>data/drug database</b>	W05-D05B5E
	B11-C11
	T01-J05B4

<b>health care administration</b>	S05-G02G2
<b>hospital IT system</b>	T01-J05A2 S05-G02G T01-J06A
<b>medical simulation and training</b>	S05-P T01-J30A W04-W07
<b>online medical information systems</b>	T01-N01E1
<b>patient medical records</b>	S05-G02G1 T01-J05B T01-J06A1
<b>pharmacovigilance</b>	S05-G02G5
<b>telediagnosis</b>	S05-D06A
<b>patient medical records</b>	T01-J06A1

**OPERATING SYSTEMS/NETWORK CONNECTIVITY**

<b>health apps</b>	T01-N03A1
<b>computer processing for sports and training equipment</b>	T01-J30D
<b>data transmission</b>	W01
preventing or detecting interception	W05-D05B5A
protecting against malicious software	W05-D05B5C
preventing or detecting unauthorized network access	W05-D05B5E
<b>diagnostic displays</b>	S05-D07
<b>online medicine</b>	T01-N01E
<b>software</b>	T01-S
<b>transmission of control or measurement signals for medical equipment</b>	W05-D07M
<b>user monitoring</b>	T01-N02B2A

**PERSONAL ITEMS**

<b>calorie counter</b>	S05-D09
<b>biosensor</b>	X27-A02 B11-C08E8 S05-C

**PERSONALISED/PRECISION MEDICINE**

<b>3D printing of medications/tablets</b>	X25-A08C2 X25-A08U2
<b>bioprinting</b>	B11-C17 X25-A08M3 X25-A08U2
<b>drug design by computer modelling</b>	B11-C08H T01-J13
<b>formulation counting/measuring devices</b>	B11-C06B
<b>patient compliance methods and systems</b>	B11-C11A S05-G02G5
<b>targeted therapies</b>	B12-Q01A S05-A

**REMOTE CONTROL AND MONITORING**

<b>alarm based on medical parameter or medical failure implanted/ingestible device</b>	W05-B07G5 S05-Y05 B11-C04A
<b>medical parameter monitoring equipment</b>	W01-C01P8
<b>pacemakers</b>	S05-A01A5A
<b>patient monitoring</b>	S05-G02B2 T01-J06A
<b>remote control (telemetry)</b>	W05-D08E
<b>telediagnosis</b>	S05-D06A
<b>transmission of control or measurement signals for medical equipment</b>	W05-D07M

## **CPI INDEX**

**A**

		electrical	A12-E06+	Acetylenic hydrocarbon	B10-J01 C10-J01 E10-J01
		Acenaphthene	B08-D03 C08-D03 E08-D03	Acid adhesion promotor for polymer	A08-M01C
Abietic acid	A03-C02 B09-D01 C09-D01 E09-D01	Acenaphthylene (co)polymers monomer	A04-C A01-D03	Acid anhydride - see under appropriate acid	
Abortifacient	B14-P01B C14-P01B	Acetal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Acid crosslinkers for ethylenically unsaturated unsaturated and addition polymers other resins	A08-C+ A08-D02
Abrasion reducers (polymer use)	A12-H10	resin (polyoxy methylenes)	A05-H02+	Acid detergent additive	D11-B13
Abrasive compositions for household cleaning non polymeric papers	D11-D01B3 G04-B04 A12-A03	Acetal, polyvinyl	A10-E02	Acid dyes for dyeing/printing fibres	F03-F21
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abrasives for detergents	D11-B09	condensant	A01-E10	Acid halide - see under appropriate acid	
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Absorbents	B12-M21 C12-M21	Acetate, cellulose	A03-A02+ B04-C02A3 C04-C02A3	Acid treatment in petroleum refining	H04-A05
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Abzyme	B04-G20 C04-G20 D05-H11C	(co)polymers fuel composition containing monomer production by wet methods purification	A04-A02 H09-E A01-B02 H09-E H09-E	(co)polymers monomer production	A04-F02 A01-D05 E10-D01A
Acaricide	B12-B04 B14-B04A C12-B04 C14-B04A	Acetylene black	A08-R03 E31-N G01-A11	Acrylamides (co)polymers monomer	E10-D03C A04-D04+ A01-D06
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Acceptors, electron; (de-sensitisers)	G06-H06				
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Acrylic acid halides (co)polymers	A04-E	inorganic		inorganic	
monomer	A01-D12	organic		organic	
Acrylic acid, metal salts - see corresponding Acrylic acid entry		Actinomycin	B02-A C02-A	Actinomycin	B02-A C02-A
Acrylic acids polymer paint	A12-B01E G02-A02C4	Activated carbon	J01-E02B3 J01-E03C3	Activated carbon	J01-E02B3 J01-E03C3
Acrylic acid production	E10-C04G1A	Activators for		Activators for	
Acrylic acid use	E10-C04G2A	concrete setting	L02-D14A	concrete setting	L02-D14A
Acrylic adhesive	F02-A05B1 G03-B02D1	crosslinking	A08-C02 A08-D+	crosslinking	A08-C02 A08-D+
Acrylic aldehydes, monoolefinic (co)polymers	A04-F02	polymerisation catalysts	A02-A+	polymerisation catalysts	A02-A+
monomer	A01-D05	Active carbon	E31-N	Active carbon	E31-N
Acrylic amides polymer paint	A12-B01E G02-A02C4	purification of water	D04-A01F	purification of water	D04-A01F
Acrylic containing epoxy paint, varnish or lacquer	A12-B01E G02-A02C1	Active C treatment	D04-A01F2	Active C treatment	D04-A01F2
Acrylic esters - see Acrylic acid esters		Active photographic materials released on processing, excluding dyes	G06-C15	Active photographic materials released on processing, excluding dyes	G06-C15
Acrylic fibres	A04-D02B A04-D03B	Acyclic saturated hydrocarbon	B10-J02 C10-J02 E10-J02D	Acyclic saturated hydrocarbon	B10-J02 C10-J02 E10-J02D
chemical features in production	F01-D02	Acyclic unsaturated hydrocarbon	B10-J01 B10-J02 C10-J01 C10-J02 E10-J01	Acyclic unsaturated hydrocarbon	B10-J01 B10-J02 C10-J01 C10-J02 E10-J01
dyeing/printing	F03-F05				
Acrylic flocculants	A12-M01				
				Adhesive	
				and methods for PCBs	L03-H04E6A
				laminating (textiles)	F03-D01
				on a carrier (excluding tape)	A12- A01A
				paper	A12-A01A
				processes general	G03-B03
				sheet	A12-A01A
				tape	A12-A01 G03-B04



Adhesive bonded non-woven fabric	F02-C01C	Adipoyl chloride condensant	A01-E12	Adrenocorticotrophic hormone (ACTH)	B04-B02D4 B04-J05D C04-B02D4 C04-J05D		
Adhesives	A12-A+ G03+ M13-H03 D08-A02 A12-V02B G03-B01 A12-A+ G03-B02+ F05-A06B A12-T01C	Adjuvants, vaccine	B14-S11F+ C14-S11f+				
Coating metal using dental	M13-H03 D08-A02	Administration mode	B12-M12+ C12-M12+ B12-M12A C12-M12A B12-M12L C12-M12L B12-M12B C12-M12B B12-M12C C12-M12C B12-M12D C12-M12D B12-M12E C12-M12E B12-M12S C12-M12S B12-M12G C12-M12G B12-M12T C12-M12T B12-M12J C12-M12J B12-M12Q C12-M12Q B12-M12H C12-M12H B12-M12O C12-M12O B12-M12U C12-M12U B12-M12I C12-M12I B12-M12F C12-M12F B12-M12K C12-M12K B12-M12L C12-M12L B12-M12M C12-M12M B12-M12N C12-M12N B12-M12P C12-M12P B12-M12Z C12-M12Z	buccal		Adrenocorticotropin	B04-B02D4 B04-J05D C04-B02D4 C04-J05D
dental, polymer use in inorganic (including silicone resins)	A12-V02B G03-B01	cervical	B12-M12L C12-M12L				
organic including polymers	A12-A+ G03-B02+ F05-A06B A12-T01C	external	B12-M12B C12-M12B	Adrenolytic	B12-E06 B14-J02D C12-E06 C14-J02D		
paper	F05-A06B	injection	B12-M12C C12-M12C	Adriamycin	B02-D C02-D		
tyre cord	A12-T01C	infusion	B12-M12D C12-M12D	Adsorbents for gas separation	J01-E03C		
Adhesives containing gelatin	A12-A+ G03-A	intraarterial	B12-M12E C12-M12E	gas storage	J06-B06C		
glue	G03-A	intraarticular	B12-M12S C12-M12S	liquid separation	J01-D01		
inorganic constituent	G03-B01	intraaural	B12-M12G C12-M12G	waste gas treatment	J01-E02B		
natural or synthetic rubber	G03-B02B	intramedullary	B12-M12T C12-M12T	water treatment	D04-A01F		
natural polymer (other)	G03-B02A	intramuscular	B12-M12J C12-M12J	Adsorbents (polymer use in)	A12-W11D		
organic constituent	G03-B02+	intranasal	B12-M12Q C12-M12Q	Adsorption property of polymer	A09-A08		
silicon polymers	A06-A00E1 G03-B01	intraocular	B12-M12H C12-M12H	Adult Respiratory Distress Syndrome treatment			
synthetic polymer (general)	G03-B02C	intraosseous	B12-M12O C12-M12O		B14-K01F C14-K01F		
Adhesives containing addition polymers	G03-B02D+	intrapertoneal	B12-M12U C12-M12U	Advertising	A12-W03		
(meth)acrylamide (co)polymers	A04-D04A1	intratracheal	B12-M12I C12-M12I	Aeration of fermentation media water	D05-A03C D04-A01K D04-A01K2		
(meth)acrylate (co)polymers	A04-F06E6	intravenous	B12-M12F C12-M12F	Aerials, electrical (polymer use)	A12-E		
(meth)acrylic acid/ anhydride (co)polymers	A04-F04B	subcutaneous	B12-M12K C12-M12K	Aeroplanes - see Aircraft			
acrylic polymers	G03-B02D1	intrauterine	B12-M12L C12-M12L	Aerosil filler	A08-R06A		
olefinic hydrocarbon polymers	G03-B02D3 A04-G02E1 G03-B02D3	intravaginal	B12-M12M C12-M12M	Aerosol	B12-M01A C12-M01A G04-B07 A12-P06A		
polyethylene	A04-G02E1 G03-B02D3	oral general	B12-M12N C12-M12N	composition containers			
PVA	A10-E09B1 G03-B02D2	rectal	B12-M12P C12-M12P	After treatment of dyed/printed textiles pulp in papermaking	F03-F14 F05-A02B		
PVC	A04-E02E2 G03-B02D2	specific treatment regime	B12-M12Z C12-M12Z	Agar	A03-A B04-C02D C04-C02D		
styrenic polymers	G03-B02D3	Adrenaline potentiator	B12-E07 B14-J02C1 C12-E07 C14-J02C1	Ageing inhibitor additive for polymer	A08-A+		
vinyl ester polymer	G03-B02D2	Adrenergic blocker	B12-E06 C12-E06	Ageing resistance improvement of fabrics	F03-C07		
vinyl halide polymer	G03-B02D2	alpha	B14-J02D1 C14-J02D1	Aggregates	L02-D13		
Adhesives containing condensation polymer aminoplasts	G03-B02E+ A05-B01 G03-B02E1	beta	B14-J02D2 C14-J02D2	Agonist general and other	B14-L01 C14-L01		
epoxy resins	A05-A01E3 G03-B02E2	general	B14-J02D C14-J02D	Agriculturals	C		
phenol-formaldehyde	G03-B02E1	Adrenergic stimulant	B12-E07 B14-J02C1 C12-E07 C14-J02C1	Agriculture composition, machine for producing	B11-C05 C11-C05		
phenol-formaldehyde res	A05-C01B1 A05-C03A	Adrenocortical	B12-G04 B14-D01 C12-G04 C14-D01	foam use in nuclear applications polymer use in	A12-S04C K09-C A12-W04+		
phenoplasts	G03-B02E1			AIDS treatments	B14-G01B C14-G01B		
polyesters	G03-B02E3						
polyurethane, polyurea, or isocyanate based	G03-B02E4						
Adipates plasticisers/extenders	A08-P04						
Adipic acid	B10-C02 C10-C02 E10-C02D E10-C02D2						
condensant	A01-E12						
Adiponitrile condensant	E10-A15A A01-E05 A01-E12						

Air conditioning	J07-A07	with amides/amines	A05-B+	Aliphatic sulphonic acid	
buildings	J01-G03C	with other condensants		detergents	D11-A01B2
textile factories	A12-R02	e.g. naphthalene		Alkali halide electrolysis	J03-B04
transport	F03-K	sulphonic acid	A05-J08	Alkali metal	
Air drying of solids	A12-T	with phenols	A05-C+	alloys	M26-B
Air laying of non-woven fabrics	J08-H01	Aldehyde/ketone		catalysts	N01-A
		polycondensates	A05-J08	electrodes for batteries	L03-E01B5
	F02-C02G	Aldosterone antagonist	B14-D02A1	in glass composition	L01-A01
			C14-D02A1	incorporated/incorporation	
Air, in oxidation reactions	E11-E01	Alfin polymerisation catalysts	A02-A05	in polymers	A10-E21
Airbags	F04-E03A	Algae	B04-B02B3	organic compounds as	
vehicle safety	A12-T04E	chlorella	B04-F08	polymerisation catalyst	
	K04-C	seaweed	B04-A08	(excluding with	
Aircraft	A12-T	unicellular	B04-F08	transition metal)	A02-A07B
runway compositions	A12-R09	Alginates	A03-A	production	M25-G04
Airjet			B04-C02D	Alkali metal compounds	B05-A01B
treatment of fibres	F01-H02		C04-C02D	inorganic	C05-A01B
weaving	F02-A04B			organic	E33
Air sterilisation, disinfection	D09-B			E05-A	
by irradiation	D09-B07	Alicyclic		Alkali treating of fabrics	F03-C08
Albumen	A03-C01	3 or more rings fused	B09-H	Alkali treatment	
	B04-B04A6	general	C09-H	in petroleum refining	H04-A06
	B04-N02		E09-H	Alkali, detergent additives	D11-B11
	C04-B04A6		B09-S		D11-B11D
	C04-N02		C09-S	Alkaline earth metal	
Alcohol	B10-E04	spirofused	B09-D	alloys	M26-B
	C10-E04	3 rings fused	C09-D	catalysts	N01-B
	E10-E04	4 rings fused	E09-D	incorporated/incorporation	
condensant	A01-E14	5 rings fused	B09-C	in polymers	A10-E21+
denaturing	D05-D	6 or more rings fused	C09-C	organic compounds as	
testing	J04-B01B2		E09-C	polymerisation catalyst	
thio	B10-E03		B09-B	(excluding with	
	C10-E03		C09-B	transition metal)	A02-A07B
	E10-E03+		E09-B	pigment/filler	G01-A01
unsaturated aliphatic	B10-E04		C10	production	M25-G05
	C10-E04		E10	Alkaline earth metal	
	E10-E04		E10-J02A	compounds	B05-A01B
unsaturated aliphatic	A04-F		E10-J02A1	inorganic	C05-A01B
(co)polymers			E10-J02A2	organic	E34
unsaturated aliphatic	A01-D09	1-2 rings fused	B10	E05-B	
monomer		hydrocarbon	C10	Alkaloid (general)	B04-A07A
Alcohol production by	D05-C15		E10		C04-A07A
fermentation			E10-J02A		E04-A
Alcoholism treatment	B12-J05A		E10-J02A1	Alkane	B10-J02
	B14-M01A		E10-J02A2		C10-J02
	C12-J05A	Alicyclic polyepoxides	A05-A05		E10-J02D
	C14-M01A	Aligning masks and layers in		Alkenes	B10-J02
Alcohols		semiconductor processing	L04-C06D		C10-J02
condensants	A01-E14	Alignment layers	L03-G05B8	production by	E10-J02C
glycidyl ethers of	A05-A03	Aliphatic - see also acyclic		disproportionation	
Alcoholysed polymers	A10-E09+	Aliphatic dibasic acid(s)+	A05-F02	production by	E10-J02C2
Aldehyde	B10-D01	diamine(s) derived polyamide		oligomerisation	E10-J02C1
	C10-D01	Aliphatic hydrocarbon (acyclic)	D05-C09	production by other	
	E10-D01	acetylenic	E10-J01	methods	E10-J02C3
condensant (excluding	A01-E10	saturated	E10-J02D	uses	E10-J02C4
HCHO)		unsaturated olefinic	E10-J02C	Alkenes - see also Olefins	
unsaturated aliphatic		unsaturated olefinic,		Alkoxide of metal, catalyst	N05-A
unsaturated aliphatic		production by		Alkoxyated melamine resins	A10-E08C
(co)polymers	A04-F02	disproportionation	E10-J02C2	Alkyd resins	A05-E08
unsaturated aliphatic		unsaturated olefinic,		Alkyl acrylates - see Acrylic	
monomer	A01-D05	production by		acid esters	
Aldehyde condensation		oligomerisation	E10-J02C1	Alkyl metal catalyst	
polymers		unsaturated olefinic,		for polymerisation	A02-A+
from formaldehyde only	A05-H02+	production by other methods	E10-	Alkyl metal catalysts	N05-A
from trioxane only	A05-H02+	J02C3			
polyoxymethylene	A05-H02+	unsaturated olefinic, uses	E10-J02C4		

Alkyl orthophosphate	B05-B01P C05-B01P E05-G09C	Allyl acrylates (co)polymers monomer	E10-G02 A04-B09 A01-C01	Alumina-silica mixture catalyst (not zeolite)	E31-P02 N01-C01 N01-C01A N01-C01B
Alkyl styrenes (co)polymers monomer	A04-C05 A01-D03	Allyl alcohol (co)polymers monomer	E10-E04M2 A04-F A01-D09	Aluminising, using solid	M13-D01B
Alkyl sulphate	B10-A09A C10-A09A E10-A09A2 D11-A01F1	Allyl chloride (co)polymers monomer	E10-H02J A04-E A01-D12	Aluminium alloy conductive tracks on semiconductor devices powder or flake	M26-B09 L04-C10C G01-A12A
detergents		Allyl ether (co)polymers monomer	A04-F11 A01-D11	Aluminium catalysts Al/Si (not zeolite) alumina not alumina, Al/Si zeolites	N01-C N01-C01+ N01-C02 N01-C03 N06+
Alkylated melamine- formaldehyde resin process	A05-B02 A10-E08C A10-E08C	Allyl glycidyl ether (co)polymers monomer	A04-F11 A05-A04 A01-D11 A01-E07	Aluminium chloride (Friedel- Crafts) polymerisation catalyst	A02-A04
Alkylated methylolated amines/amides process	A05-B+ A10-E08C A10-E08C	Allyl methacrylate - see Allyl acrylates		Aluminium compounds	B05-A01B C05-A01B E34-C
Alkylated/alkylation of polymer (direct C-C bond)	A10-E03	Allyl sulphonic acid (co)polymers monomer	A04-A A01	inorganic inorganic excluding (hydr)oxides organic containing Al-C bond organic without Al-C bond pigment/filler	E34-C03 E05-B02 E05-B03 G01-A10
Alkylation	H04-E13A	Alpha amino acid (carboxylic)	B10-B02 C10-B02 E10-B02D	Aluminium hydrocarbon compounds polymerisation catalyst in absence of transition metal (or compounds) in presence of transition metal (or compounds)	E05-B02 E05-B03 G01-A10 A02-A07C A02-A06C
Alkylation (gasoline preparation)	H04-D02	Alpha radiation - see Ionising radiation		Aluminium hydroxide	B05-A01B C05-A01B A08-F05 E34-C01 E34-C02
Alkylene oxide condensants polyethers polyetherurethanes	A01-E07 A05-H+ A05-G03	Alpha-adrenergic blocker	B12-E06A B14-J02D1 C12-E06A C14-J02D1	Aluminium oxide - see Alumina	G01-A12A
Alkyleneimine polymers	A05-J07	Alpha-chloroacrylic acid (co)polymers monomer	A04-E A01-D08 A01-D12	Aluminium powder or flake	G01-A12A
Alkynes	B10-J01 C10-J01	Alpha-chlorostyrene (co)polymers monomer	A04-C A01-D02	Aluminium production	M25-G01
Alkynes-production	E10-J01A	Alpha-methyl styrene (co)polymers monomer	E10-J02B A04-C05 A01-D03	Alumino-thermic welding	M23-E02
Alkynes-use	E10-J01B	Alphacillin	B02-P03 C02-P03	Aluminosilicate	E31-P02 L02-G01A
Allergen	B04-B04C9 C04-B04C9	Alternating copolymerisation	A10-C01	Aluminum - see Aluminium	
Allethrin	B04-A07C C04-A07C	Alternators	A12-E08B	Alzheimer's disease treatment	B12- G04A
Allopregnane	B01-D01 C01-D01	Alum(in)oxanes as polymerisation catalysts	A06-D01		B14-J01A4 C12-G04A C14-J01A4
Allotropism	E11-R04A	Alumina	B05-A01B C05-A01B L02-G01A	Americium compounds	B05-A04 C05-A04 E35-R E05-Q
Alloying of ferrous melts	M24-C08	catalyst (without silica) (non- polymerisation) cements filler	N01-C02 L02-C07 A08-R G01-A10 A08-F L01-A03A	Amidated/amidation of polymers of epoxy resins of other polymers of polyethers	A10-E17+ A10-E17A A10-E17B A10-E17A
Alloys (ferrous)	M27-A	flame retardant glass composition polymerisation catalyst support production	A02-D E34-C01 L02-G11 A08-F E34-C02	Amide - see under appropriate acid	
cast iron	M27-A03	smoke inhibitor		Amides	
master	M27-A02	use		condensants	A01-E03
production	M27-A01			crosslinkers for ethylenically unsaturated polymers	A08-C09
shape memory	M27-D05			crosslinkers for other	
steel	M27-A04				
treatment	M27-B				
treatment, cast iron	M27-B03				
treatment, master	M27-B02				
treatment, production	M27-B01				
treatment, steel	M27-B04				
Alloys (gas adsorbents)	J06-B06C3				
Alloys (non-ferrous)					
based on particular metals	M26-B				
production	M26-A				
production by melting	M26-A01				
production by pressing or sintering	M26-A02				
Allyl acetate (co)polymers monomer	E10-G02 A04-F A01-D10				

polymers	A08-D04	Ammonia	B05-C01	Amoebicide	B12-B01
monomers, monoolefinic	A01-D06		C05-C01		B14-A03A
Amidine	B10-A17		E32-A		C12-B01
	C10-A17	Ammonia catalyst	N04-A		C14-A03A
	E10-A17			Amorphous layers on	
	E10-A17A	Ammonia removal from water	D04-	semiconductors	L04-C03
	E10-A17B	B07C			
Aminated/amination of polymers		Ammonia-oxidation reaction	E11-F07C	Amoxicillin	B02-P02
of epoxy resins	A10-E18	Amoxidation reaction	E11-F07C		C02-P02
of other polymers	A10-E19	Ammonium chloride		Amphibian cells	B04-F07A
of polyethers	A10-E18	crosslinker for ethylenically		C04-F07A	
Amine oxide	B10-A03	unsaturated polymers	A08-C09	Ampholyte detergent	D11-A04
	C10-A03	crosslinker for other		mixtures with other	
	E10-A03	polymers	A08-D03	detergents	D11-A12
Amine oxides as disinfectants		Ammonium compounds		Amphoteric refractories	L02-E09
other than of food or air	D09-A04C	inorganic	B05-C01	Amphotericin B	B02-A
Amine-epihalohydrin polymers	A05-J09		C05-C01		C02-A
Amine-polymaleimide polymers	A05-J11		E32-A	Ampicillin	B02-P02
Amines	B10-B	Ammonium inorganic catalyst	N04-A		C02-P02
	C10-B	Ammonium nitrate	B05-C01	Amplification processes for production	
	E10-B+		B05-C02		B11-C01E
catalysts	N05-D		C05-C01		C11-C01E
condensants	A01-E05		C05-C02	Ampoule	B12-M04
crosslinkers for ethylenically		Ammonium organic	E32-A		C12-M04
unsaturated polymers	A08-C09	(quaternary N)		Anabolic agent	B12-J01
crosslinkers for other		catalyst	N05-D		B14-E11
polymers	A08-D03	compounds mono	B10-A22		C12-J01
cyclic monoolefinic monomer	A01-D01		C10-A22		C14-E11
Amino acids, alpha, (carboxylic)	B10-B02	compounds poly	E10-A22	Anaemia treatment	B12-H01
	C10-B02		B10-A21		B14-F03
	E10-B02D+		C10-A21		C12-H01
aromatic	E10-B02A+	Ammonium orthophosphate,	E10-A21		C14-F03
biosynthesis	D05-C01	general		Anaesthetic	
condensants	A01-E04	production	B05-B02A2	general	B12-C01
detection and analysis of	J04-B03	use	C05-B02A2		B14-C07
homopolycondensates	A05-F03		E31-K03		C12-C01
polyamides	A05-F03		E31-K05E	local	C14-C07
Amino phenols	E10-B03A1	Ammonium persulphate	E31-E03		B12-C02
	E10-B03B1	crosslinker for ethylenical			B14-C08
condensant	A01-E05	unsaturated polymers	A08-C05		C12-C02
	A01-E13	crosslinker for other			C14-C08
crosslinkers for ethylenically		polymers	A08-D	Analeptic	B12-C03
unsaturated polymers	A08-C09	redox polymerisation			B14-J01A2
crosslinkers for other		catalyst system component	A02-A03		C12-C03
polymers	A08-D03	sole polymerisation			C14-J01A2
Aminoalkyl (meth)acrylate		catalyst species	A02-A01	Analgesic	B12-D01
(co)polymers	A04-D09	Ammonium polyphosphate,			B14-C01
monomer	A01-D07	general	B05-B02A2		C12-D01
	A01-D10B		C05-B02A2		C14-C01
Aminoalkyl cellulose - see		production	E31-K04	Analogue Nucleic Acid	B04-E11
Cellulose ethers		use	E31-K06		C04-E11
Aminoalkyl silane adhesion		Ammonium salt with		Analysis	J04-B01
improvers	A08-M01D	inorganic P acid	B05-B02A2	Chemdoc	E11-Q
			C05-B02A2	Farmdoc/Agdoc	B12-K04
Aminoalkylated/ amino		general production,			C12-K04
alkylation of polymer	A10-E03	excluding orthophosphates	E31-K04	laboratory equipment	A12-L04
		use, excluding ortho- and			J04-B
Aminoarylated/		polyphosphates	E31-K07	medical	A12-V03C2
aminoarylation of polymer	A10-E03	Ammonium sulphate	B05-C01		B12-K04
			C05-C01	of fabrics	C12-K04
Aminocaproic acid condensant	A01-E04		E32-A	of ferrous metals and alloys	F03-K02
Aminoplasts	A05-B+	Ammonium		of non-ferrous metals and	M24-A06
adhesive/binder	A12-A05D	decommissioning	K03-A	alloys	M25-H
	G03-B02E1		K03-A04	of NBC agents	K02-A04
coating/paint	A12-B01J	Ammunition - see also Military		of polymers (chemical	
	G02-A02F			constitution)	A09-B
Aminotriazine condensant	A01-E01	Amniotic fluid	B04-B04H		
			C04-B04H		

microanalysis reactions and reagents spectral using various methods (Chemdoc) using electrical properties using optical properties	J04-B04 J04-B01B J04-B01A E11-Q03 J04-C02B J04-C02C	Animal cells	B04-B04A3 B04-F01 C04-B04A3 C04-F01	Anionic dyes for dyeing/printing fibres	F03-F21
Anchor bolts	A12-H12	Animal excrement	B04-B04B C04-B04B B04-B04B2 C04-B04B2	Anisotropic melt/solutions of polymers	A09-A02A
Ancillary equipment for semiconductor processing	L04-D10	Faeces	B04-B04B C04-B04B2	Annealing of ferrous metal fibres glass non-ferrous metal polymers	M24-D02B F01-H05 L01-G02 M29-C A11-B02+
Androgen inhibitor	B12-G01A B14-D02A C12-G01A C14-D02A	Urine	B04-B04B1 C04-B04B1	semiconductors (laser)	L04-C16B
Androgen receptor	B04-K01L1 C04-K01L1	Animal extract, general mammalian non-mammalian	E04-B B04-B04L C04-B04L B04-B04M C04-B04M	Anodic protection	M14-E
Androgenic	B12-G04B B14-D01A C12-G04B C14-D01A	Animal feed yeast production	D05-B04	Anodising for anticorrosive or decorative purposes for electrical purposes	M11-E01 M11-E02
1,4-Androstadiene	B01-B03 C01-B03	Animal feeds	D03-G D03-J10	Anodyne	C12-D01
Androstadiene (other than 1,4)	B01-B04 C01-B04	Animal fibres chemical treatment dyeing/printing mechanical treatment	F01-B01 F03-F02 F01-A01	Anorectal disease treatment	B14-N07 C14-N07
Androstane (saturated ring "A")	B01-D02 C01-D02	Animal oils	B04-B01C2 C04-B01C2	Anorectic	B12-J02 B14-E12 C12-J02 C14-E12
Aneurin	B03-B C03-B	Animal polysaccharides	B04-C02E C04-C02E	Anorexia treatment	B12-J01 B14-E11A C12-J01 C14-E11A
Angina pectoris treatment	B12-F02 B14-F01D C12-F02 C14-F01D	Animal protein	B04-B04A6 B04-N02 C04-B04A6 C04-N02	Antacid	B12-J03 B14-E01 C12-J03 C14-E01
Angiogenic	B14-F02F1 C14-F02F1	Animal repellent	A08-M02	Antagonist general and other	B14-L06 C14-L06
Angiosperms	B04-A08C2 C04-A08C2 B08-A08G+ C04-A08G+	Animal repellent	B12-N06 B14-B13 C12-N06 C14-B13	Anthracene	B08-D02 C08-D02 E08-D02
Angiotensin	B04-J18 C04-J18	Animal repellant	A08-M02	Anthraquinone dye	A08-E03B E22
Angiotensin agonist/mimetic	B14-L02 C14-L02	Animal waste, protein recovery from	D03-F04	condensed ring system for dyeing textiles for polyamide textiles for polyester textiles reactive water insoluble water soluble, cationic water soluble, not cationic	E22-E F03-F16C F03-F06C F03-F07C E22-D E22-C E22-A
Angiotensin antagonists	B14-F02B1 C14-F02B1	Animal waxes	B04-B01C2 C04-B01C2	Anti DNA/RNA polymerase	B14-D06A C14-D06A
Angiotensin converting enzyme inhibitor	B12-F05A B14-F02B1 C12-F05A C14-F02B1	Animals (whole) arthropods domestic experimental farm fish general insects laboratory poultry wild	B04-P01C C04-P01C B04-P01B C04-P01B B04-P01A C04-P01A B04-P01B C04-P01B B04-P01 C04-P01 B04-P01 C04-P01 B04-P01C C04-P01C B04-P01A C04-P01A B04-P01B C04-P01B B04-P01 C04-P01	Anti heavy metal poisoning	B12-J05C B14-M01D C12-J05C C14-M01D
Anhydride - see under appropriate acid		Animal use only of D08 codes	D08-C	Anti-graffiti coatings	G02-A05J
Anhydride crosslinking agents	A08-C+ A08-D02	Anion exchange resins - see Ion exchange resins		Anti-ozonants for polymers	A08-A07
Aniline	E10-B04A E10-B04A1 E10-B04A2 A01-E05	Anionic detergent	D11-A01	Anti-reflective layers in photographic materials and processes	G06-A02A
Aniline-based aminoplasts	A05-B			Anti-SRS-A	B12-D02D C12-D02D
				Antibortive	B14-P03 C14-P03

Antiacetyl choline	B12-E04 B14-J02B1 C12-E04 C14-J02B1	Antiarthritic general and other	B12-D03 B14-C09 C14-C09	Antibody	B04-B04C C04-B04C
Antiageing (senility)	B12-G04A B14-J01A4 C12-G04A C14-J01A4	osteoarthritis	B14-C09A C14-C09A	antialgal	B04-G09 C04-G09
Antiageing additives	A08-A+	rheumatoid-arthritis treatment	B14-C09B C14-C09B	antiamoebal	B04-G09 C04-G09
Antiageing preparations	D08-B09A3	Antiarthritic general and other	C12-D03	antibacterial	B04-G07 C04-G07
Antiaggregants	B14-F04 C14-F04	Antiasthmatic	B12-D02 B12-K02 B14-K01A C12-D02 C12-K02 C14-K01A	antiblood	B04-G06 C04-G06
Antialcoholism	B12-J05A B14-M01A C12-J05A C14-M01A	Antibacterial	B12-A01 C12-A01	anticancer	B04-B04C4 B04-G05 C04-B04C4 C04-G05
Antialdosterone	B14-D02A1 C14-D02A1	Bacillus	B14-A01B5 C14-A01B5	anticytokine	B04-G02 C04-G02
Antialgal	B12-A02A B14-A05 C12-A02A C14-A05	Bordetella	B14-A01A1 C14-A01A1	antienzyme	B04-G03 C04-G03
Antiallergic	B12-D02 B14-G02A C12-D02 C14-G02A	Borrellia	B14-A01A2 C14-A01A2	antifungal	B04-G09 C04-G09
Antiamnesia	B14-J01A4 C14-J01A4	Escherichia	B14-A01A3 C14-A01A3	antihormone	B04-G02 C04-G02
Antiamoebic	B12-B01 B14-A03A C12-B01 C14-A03A	Mycobacteria	B14-A01B1 C14-A01B1	antiinterleukin	B04-G02 C04-G02
Antianaemia	B12-H01 B14-F03 C12-H01 C14-F03	M. Tuberculosis	B14-A01B1A C14-A01B1A	antilymphokine	B04-G02 C04-G02
Antianaphylactic	B12-J05 B14-G02B C12-J05 C14-G02B	M. Leprae	B14-A01B1B C14-A01B1B	antimetabolic factor	B04-G02 C04-G02
Antianginal	B14-F01D C14-F01D	Mycoplasma	B14-A01A4 C14-A01A4	antimicrobial (excluding vaccines)	B04-B04C3 C04-B04C3
Antiangiogenic	B14-F02F2 C14-F02F2	Neisseria	B14-A01A5 C14-A01A5	antimicrobial (other than bacterial or viral)	B04-G09 C04-G09
Antiangiotensin converting enzyme	B12-F05A B14-F02B1 C12-F05A C14-F02B1	Pseudomonas	B14-A01A6 C14-A01A6	antiparasitic	B04-G12 C04-G12
Antiapoptotic	B14-H04 C14-H04	Rickettsia	B14-A01A7 C14-A01A7	antiplant	B04-G10 C04-G10
Antiarrhythmia	B12-F01A B14-F01A C12-F01A C14-F01A	Salmonella	B14-A01A8 C14-A01A8	antireceptor	B04-G04 C04-G04
Antiartherosclerotic	B12-H03 B14-F07 C12-H03 C14-F07	Staphylococcus	B14-A01B4 C14-A01B4	antiviral	B04-G08 C04-G08
		Streptococcus	B14-A01B2 C14-A01B2	as part of fusion protein binding to another antibody	D05-H17C1 B04-G11
		Streptomyces	B14-A01B3 C14-A01B3	bispecific antibodies	B04-G24 C04-G24
		Vibrio	B14-A01A9 C14-A01A9	catalytic antibodies	B04-G20 C04-G20
		general	B14-A01 C14-A01	chimeric	B04-G01A C04-G01A
		gram-negative general	B14-A01A C14-A01A	fragments	B04-G23 C04-G23
		gram-positive general	B14-A01B C14-A01B	general	D05-H11
		Antibacterial (plant)		general and other	B04-G01 C04-G01
		Pseudomonas	C14-A01C2	heterospecific	B04-G26 C04-G26
		Agrobacteria	C14-A01C3	human	B04-G01B C04-G01B
		Enterobacteria	C14-A01C1	humanized	B04-G01C C04-G01C
		general	C14-A01C	monoclonal	B04-G21 C04-B04C5 C04-G21
		Antibiotics	B02 C02 E02	as disinfectants other than of food or air biosynthesis	D05-H11A B04-G01D C04-G01D
		Antiblocking agents for polymers	D09-A01C D05-C02 A08-M07	murine	B04-G01D C04-G01D
				other	B04-B04C6 C04-B04C6

polyclonal	B04-G22 C04-G22 D05-H11B	Anticorrosion additives for water	D04-A03	Antifibrillatory	B12-F01A B14-F01A C12-F01A C14-F01A
recombinant production of	D05-H17A1	Anticorticosterone	B14-D02A C14-D02A	Antifibrinolytic	B12-H04 B14-F08 C12-H04 C14-F08
recombinant production of mutated antibodies	D05-H17B1	Anticrustacean	B12-N04 B14-B04 C12-N04 C14-B04	Antifibroblastogenic	B12-G07 B14-H01A C12-G07 C14-H01A
site specific release	B12-M10E2 C12-M10E2	Anticurl layers, photographic	G06-A	Antiflatulent	B14-E03 C14-E03
Antibody - Antigen reaction general	B11-C07A C11-C07A	Antidehydrogenase	B14-D05D C14-D05D	Antifoaming agents	A08-S03
Antibody-producing cells	B04-F05 C04-F05 D05-H15A	Antidepressant	B12-C06 B14-J01A1 C12-C06 C14-J01A1	Antifoggants (photographic)	G06-H03
Antibordetella	B14-A01A1 C14-A01A1	Antidiabetic	B12-H05 B14-S04 C12-H05 C14-S04	Antifouling	B12-A08 C12-A08 C14-B15 A08-M02
Antibradykinin	B12-E02 B12-F04 B14-D02B C12-E02 C12-F04 C14-D02B	Antidiarrhoeal	B12-J04 B14-E02 C12-J04 C14-E02	additive for paints	
Antibronzing agents, photographic	G06-H11	Antidiuretic hormone (ADH)	B04-J05B C04-J05B	additives	
Anticaking	B12-M11A C12-M11A	Antidiuretics	B14-N09 C14-N09	bactericidal, fungicidal etc.	G02-A03B G02-A05G G02-A03B
agents for detergents	D11-B04	Antidopaminergic	B14-J02D3 C14-J02D3	coatings	
Anticancer	B12-G07 B14-H01 C12-G07 C14-H01	Antidotes general and other	B12-J05 B14-M01 C12-J05 C14-M01	for paints	
Anticarcinogenic	B12-G07 B14-H01 C12-G07 C14-H01	acute intoxication	B14-M03 C14-M03	polymer scale build-up	
Anticaries	B14-N06A C14-N06A	herbicide	B14-M01E C14-M01E	prevention	A08-S08
Anticaries composition	D08-A05	pesticide	B14-M01E C14-M01E	soil repellents	A08-S08
Anticatabolic	B12-J01 B14-E11 C12-J01 C14-E11	Antiemetic	B12-D05 B14-E05 C12-D05 C14-E05	Antifouling coatings	G02-A05G
Anticataleptic	B12-E02 B14-J01A2 C12-E02 C14-J01A2	Antiepileptic	B12-D04 B14-J07 C12-D04 C14-J07	Antifreeze	A12-W11G G04-B01 H08-D02
Anticatatonic	B14-J01A2 C14-J01A2	Antiesterase	B14-D07A C14-D07A	Antifungal	B12-A02C C12-A02C B14-A04A C14-A04A
Anticholesterol	B12-H03 B14-D02A2 C12-H03 C14-D02A2	Antieumycetes	B12-A02C B14-A04 C12-A02C C14-A04	Aspergillus	B14-A04A C14-A04B C14-A04C C14-A04C
Anticholinergic	B12-E04 B14-J02B1 C12-E04 C14-J02B1	Antifebric	B12-D08 B14-C04 C12-D08 C14-C04	Candida	B14-A04B C14-A04B C14-A04C C14-A04C
Anticoagulant	B12-H02 B14-F04 C12-H02 C14-F04	Antifebrile	B12-D08 B14-C04 C12-D08 C14-C04	Microsporium	B14-A04C C14-A04C C14-A04C
Anticonvulsant	B12-D04 B14-J07 C12-D04 C14-J07	Antifertility	B12-G01A B14-P01 C12-G01A C14-P01	Trichophyton	B14-A04C C14-A04C A08-M02 B14-A04X C14-A04X B14-A04 C14-A04
				Antifungal (plant)	
				Alternaria	C14-A06A
				Botrytis	C14-A06B
				Fusarium	C14-A06C
				Helminthosporium	C14-A06D
				Phytophthora	C14-A06E
				Pythium	C14-A06F
				Rhizoctonia	C14-A06G
				Sclerotinia	C14-A06H
				Sclerotium	C14-A06J
				Septoria	C14-A06K
				Venturia	C14-A06L
				Verticillium	C14-A06M
				bunts	C14-A06S
				Downy mildew	C14-A06P
				general	C14-A06
				others	C14-A06T
				powdery mildew	C14-A06N
				rice blast treatment	C14-A06
				rusts	C14-A06R
				smuts	C14-A06S

combating resistant plant fungi	C14-A06X	Antihypercholesterolaemic	B12-H03 B14-D02A2 C12-H03 C14-D02A2	Antimetabolite general and other	B14-L06 C14-L06
Antigen-antibody reaction apparatus	B11-C07A7 C11-C07A7	Antihypertensive	B12-F05 B14-F02B C12-F05 C14-F02B	Antimetalloprotease	B14-D07C1 C14-D07C1
testing	B11-C07 C11-C07			Antimicrobial	B12-A01 C12-A01
Antigens	B04-B04C C04-B04C	Antihypotensive	B12-F04 B14-F02A C12-F04 C14-F02A	additives	A08-M02
microbial	B02-V02 B04-B04C1 C02-V02 C04-B04C1			additives in detergents	D11-B14
cancer	B04-B04C8 C04-B04C8	Antihypothermia	B14-C05 C14-C05	combating resistant bacteria	B14-A01X C14-A01X
Allergen	B04-B04C9 C04-B04C9	Antihypoxemia	B12-K06 B14-K01 C12-K06 C14-K01	general	B14-A01 C14-A01
other	B04-B04C2 C04-B04C2			Antimitotic	B12-G07 B14-H01B C12-G07 C14-H01B
Antiglycosidase	B14-D07B C14-D07B	Antiicing additive (fuels)	H06-D03	Antimony alloys	M26-B
Antigout	B12-G03 B14-C02 C12-G03 C14-C02	Antiiplantation	B12-K03 B14-P01B C12-K03 C14-P01B	catalysts	N03-H
Antigreying agents (in detergents)	D11-B01C	Antiinflammatory	B12-D07 C12-D07 B14-C03 C14-C03	element	B05-A02 C05-A02 E31-M
Antihaemophilus	B12-A01 B14-A01A C12-A01 C14-A01A	general		Antimony compounds	B05-A02 C05-A02 E31-M
Antihaemorrhage	B12-H04 B14-F08 C12-H04 C14-F08	Antisomerase	B12-G01B5 B14-D09 C12-G01B5 C14-D09	inorganic	G01-A16
Antihaemorrhoids	B12-J04 B14-E04 C12-J04 C14-E04	Antikinases	B14-D06C C14-D06C	inorganic compound pigment	E05-J
Antihalation agents, photographic	G06-A02	Antiknock additives (fuels)	H06-D04	organic	
Antihardeners, photographic	G06-H14	Antileprotic	B12-A03 B14-A01B1 C12-A03 C14-A01B1	Antimony containing	
Antihelmintic	B12-B02 B14-B03 C12-B02 C14-B03	Antilichen	B12-A02B B14-B08 C12-A02B C14-B08	flame retardant	A08-F02
Antihistamine	B12-D06 C12-D06	Antiligase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	intumescent agent	A08-B A08-F02
general	B14-L09 C14-L09	Antilipaemic	B12-H03 B14-F06 C12-H03 C14-F06	material for fabric flame proofing	F03-C03B
H1-secretion inhibitors	B14-L10 C14-L10	Antilisteria	B14-A01B C14-A01B	Antimony production	M25-G02
H2-secretion inhibitors	B14-L11 C14-L11	Antilyase	B12-G01B4 B14-D08 C12-G01B4 C14-D08	Antimony trioxide flame retardant	A08-F02
Antihistaminergic	B14-L09 C14-L09	Antimalarial	B12-B03 B14-A03B C12-B03 C14-A03B	Antimony-containing	
Antihormone	B12-G01A B14-D02 C12-G01A C14-D02	Antimetabolite	B12-G01 C12-G01	Antimuscarinic	B14-J02B2 C14-J02B2
Antihydrolase	B12-G01B3 C12-G01B3			Antimycobacterial	B12-A03 B12-A04 B14-A01B1 C12-A03 C12-A04 C14-A01B1
general and other	B14-D07 C14-D07			Antimycoplasma	B12-A01 B14-A01A4 C12-A01 C14-A01A4
				Antimycotic	B12-A02 B14-A04 C12-A02 C14-A04
				Antineoplastic	B12-G07 B14-H01 C12-G07 C14-H01
				Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A



Antiovarulation	B12-G01A B14-P01B C12-G01A C14-P01B	Antiphthitic	B12-A04 B12-D02 B12-K02 B14-A01B1 C12-A04 C12-D02 C12-K02 C14-A01B1	Antiscorpion	B12-N04 B14-B04 C12-N04 C14-B04
Antioxidant for cosmetics	D08-B11			Antisecretory	B12-J02 C12-J02
edible fats and oils	D10-A03			Antisenility	B12-G04A B14-J01A4
food	D03-H01P	Antiplateque	B14-N06A C14-N06A		C12-G04A C14-J01A4
fuels	H06-D01	Antiplasmin	B12-G01 B12-H04 B14-D07C	Antisense DNA	B04-E06 C04-E06
lubricants	H07-G01			Antisense gene therapy	B14-S03B C14-S03B
pharmaceutical and/or veterinary	B14-S08 C14-S08	Antiplumbing agent, photographic	G06-H11	Antiseptic	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01
polymer	A08-A06	Antiprogestational	B12-G01A B14-D02A4 C12-G01A4 C14-D02A	Antiserotonergic	B14-J04 C14-J04
veterinary only	B14-S08 B14-S12 C14-S08 C14-S12	Antiproliferative	B14-H01B C14-H01B	Antislip compositions (non- polymeric)	G04-B04
Antioxidase	B14-D05A C14-D05A	Antiproliferative (non- cancerous)	B14-H05 C14-H05	Antislow-release substance of anaphylaxis	B12-D02D C12-D02D
Antioxidoreductase	B12-G01B1 C12-G01B1	Antiprotease	B14-D07C C14-D07C	Antismoking	B12-J05B B14-M01B C12-J05B C14-M01B
general and other	B14-D05 C14-D05	Antiprotozoal	B12-B01 C12-B01	Antispasmodic	B12-E04 B14-J05D C12-E04 C14-J05D
Antioxygenase	B14-D05C C14-D05C	Plasmodium	B14-A03B C14-A03B	Antispastic	B12-E02 B14-J05D C12-E02 C14-J05D
Antipaludial	B12-B03 B14-A03B C12-B03 C14-A03B	antiprotozoal general	B14-A03 C14-A03	Antispider	B14-B04 C14-B04
Antiparasitic (general)	B12-B04 B14-B02 C12-B04 C14-B02	Antipruritic	B12-A07 C12-A07	Antistatic agent for detergents for electrical for fabrics for polymers photographic	D11-B05 L03-H04B F03-C05 A08-S04 G06-A03
combating resistant parasites	B14-B02X C14-B02X	Antipsychotic	B14-J01B3 C14-J01B3	Antistatic compositions (non-polymeric)	G04-B03
Antiparkinsonian	B12-C04 B14-J01A3 C12-C04 C14-J01A3	Antipyretic	B12-D08 B14-C04 C12-D08 C14-C04	Antistatic treatment of fabrics/fibres	A12-S05S F03-C05
Antipepsin	B12-G01B3 B14-D07C C12-G01B3 C14-D07C	Antirads for polymers	A08-A02	Antisteroid general	B14-D02A C14-D02A
Antipeptide hormone activity	B14-D02B C14-D02B	Antiredeposition	D11-B05	Antistreptomycetes	B12-A02C B14-A01B3 C12-A02C C14-A01B3
Antipeptide hydrolase	B14-D07C C14-D07C	Antireducatase	B14-D05D C14-D05D	Antisynthetase	B14-D10 C14-D10
Antiperoxidase	B14-D05B C14-D05B	Antireverse transcriptase	B14-D06B C14-D06B	Antitarnishing agents, in detergents	D11-B05
Antiperspirant	B12-L01 B14-R03 C12-L01 C14-R03 D08-B09B2	Antirhesus factor	C12-G01	Antithrombin	B14-D07C C14-D07C
Antiphlogistic	B12-D07 B12-D08 B14-C04 C12-D07 C12-D08 C14-C04	Antirheumatic	B12-D09 B14-C06 C12-D09 C14-C06		
Antiphosphodiesterase	B14-D07A1 C14-D07A1	Antirickettsia	B14-A01A7 C14-A01A7		
		Antisaccharomyces	B12-A02 B14-A04 C12-A02 C14-A04		
		Antischizophrenic	B14-J01B3 C14-J01B3		
		Antiscorch agents	A08-C06 A08-D+		

Antitick	B12-B04 B14-B04A C12-B04 C14-B04A	poxvirus	B14-A02A4 C14-A02A4 B14-A02B7	paints and coatings	A12-B01A G02-A+ A12-S
		reovirus	C14-A02B7	solutions of polymers	
Antitransferase	B12-G01B2 B14-D06 C12-G01B2 C14-D06	retrovirus	B14-A02B1 C14-A02B1	Arachnicide	B14-B04 C14-B04
		rhabdovirus	B14-A02B4 C14-A02B4	Arachnids	B04-P01C C04-P01C
Antitremor	B12-C04 B12-E04 B14-J01A3 C12-C04 C12-E04 C14-J01A3	RNA viruses general	B14-A02B C14-A02B	Aramids	A05-F05 fibres, chemical features of F01-D03 fibres, dyeing/printing F03-F06+
		togavirus	B14-A02B6 C14-A02B6	Arc extinguishing gases for contact breakers	L03-B04
		Antiviral (plant)	C14-A02B8	Arc welding and cutting apparatus	M23-D01 M23-D01B4
Antitreponema	B12-B01 B14-A01A C12-B01 C14-A01A	Antiyeast	B12-A02C B14-A04 C12-A02C C14-A04	build-up circuits	M23-D01A2 M23-D01B3
		Anxiety relieving	B12-C10 B14-J01B4 C12-C10 C14-J01B4	flux	M23-D01B2
Antitubercular	B12-A04 B14-A01B1 C12-A04 C14-A01B1	Anxiolytic	B14-J01B4 C14-J01B4	gas holders	M23-D01B2 M23-D01B1
		Apoptotic	B14-H03 C14-H03	methods	M23-D01A
Antitumour	B12-G07 B14-H01 C12-G07 C14-H01	Apparatus for addition	A10-B01 N06-D E11 J04-X	nozzles	M23-D01B1
antibody	B04-B04C4 B04-G05 C04-B04C4 C04-G05	(co)polymerisation catalysts	E11 J04-X	seam	M23-D01B1 M23-D01A1
		chemical process	E11 J04-X	specifically adapted for particular articles	M23-D01A4
Antitussive	B12-K01 B14-K01B C12-K01 C14-K01B	combinatorial chemistry	E11-K02 B11-C01B C11-C01B	submerged torches	M23-D01A3 M23-D01B1
		concrete article manufacture	L02-D04C	wire feed	M23-D01B2
Antivenereal	B12-A05 B14-N07C C12-A05 C14-N07C	optical glass fibre manufacture	L01-F03K	Areas, sports	A12-F01A
		pharmaceutical/ agricultural composition production	B11-C C11-C	Argentiferous compounds - see Silver	
Antiviral	B12-A06 C12-A06	polycondensation	A10-D04	Argon (element)	B05-B02C C05-B02C E31-J
adenovirus	B14-A02A1 C14-A02A1	recycling waste water	D04-A06	Argon compounds inorganic	B05-B02C C05-B02C E31-J
arbovirus	B14-A02A2 C14-A02A2	Apparel, wearing	A12-C+ F04-C	organic	B05-B02C C05-B02C E05-K
combating resistant viruses	B14-A02X	Appetite depressant	B12-J02 B14-E12 C12-J02 C14-E12	Arm, artificial polymer use in	D09-C01D A12-V02
coronavirus	B14-A02B5 C14-A02B5	stimulant	B12-J01 B14-E11 C12-J01 C14-E11	Armaments	A12-T03D+
DNA viruses general	B14-A02A C14-A02A	Aptamer	B04-E07F C04-E07F D05-H12D6A	Armatures	A12-E08B
general	B14-A02 C14-A02	Aqueous dispersions	A07-B	Arming mechanisms	K03-A03
hepatitis B virus	B14-A02A5 C14-A02A5	dispersions of acrylic polymers	A07-B02	Aromatic acids, and derivatives, condensants	A01-E11
herpesvirus	B14-A02A3 C14-A02A3	dispersions of natural or condensation polymers (non-rubber)	A07-B04	Aromatic compounds 3 or more rings fused general	B08-H C08-H E08-H B08-S C08-S
flavivirus	B14-A02B9 C14-A02B9	addition polymers	A07-B03	3 rings fused	B08-D C08-D
influenza treatment	B14-A02B2 C14-A02B2	dispersions of rubbers	A07-B01	4 rings fused	B08-C C08-C E08-C
Influenza treatment myxovirus	B14-A02B2 C14-A02B2			5 rings fused	B08-B C08-B
papovirus	B14-A02A6 C14-A02A6			6 or more rings fused	E08-B B08-A C08-A E08-A
parvovirus	B14-A02A9 C14-A02A9				
picornavirus	B14-A02B3 C14-A02B3				

1-2 rings fused	B10 C10 E10	Artherosclerosis treatment	B14-F07 C14-F07	Artherosclerosis treatment	B12-H03 B14-F07 C12-H03 C14-F07
Aromatic dicarboxylic acid(s) production	E10-C02C1B E10-C02C2B	Arthropodicide	B14-B04 C14-B04	Atomic engineering - see Nuclear engineering	
Aromatic dicarboxylic acid(s) + aromatic diamine(s) based polyamide	A05-F05	combating resistant arthropods	B14-B04X C14-B04X B04-P01C C04-P01C	Atomising apparatus for atomising	J02-C01 D09-B01B
Aromatic diolefinic (co)polymers, ester	A04-B09	Arthropods		Attenuators for optical circuits	L03-G02
(co)polymers, others	A04-B10	Artificial - see under the artifact (e.g. for artificial fur - see fur, artificial)		Audio magnetic tape	A12-E08A1
monomers, ester	A01-C01	Aryl of metal, catalyst	N05-A	Aural	B12-L04 B14-N02 C12-L04 C14-N02
monomers, substituted excluding ester	A01-C02	Arylated - see Alkylated		Auric, aurous compounds - see Gold	
monomers, unsubstituted	A01-C03	Aryl of metal, catalyst	N05-A	Autoclaves for concrete article heat treatment	L02-D04C
Aromatic hydrocarbon	B10-J02 C10-J02 E10-J02B	Arylation	E11-F03	Autoclaving concrete	L02-D04
production by disproportionation	E10-J02B1	Asbestos	E31-P04	Autoclaving concrete articles	L02-D04B
production by hydrodealkylation	E10-J02B1	disposal	L02-B07	Autoimmune disease treatment	B12- D02A B14-G02D C12-D02A C14-G02D
production by other methods	E10- J02B3	fibres	F01-D09	Automated fermentation vessel	D05- A03B
purification	E10-J02B2	fillers	A08-R02	Automated yarn spinning system	F01-G04
uses	E10-J02B4	paper	F05-A06+	Automatic refinery control equipment	H05-J
Aromatic monoolefinic (co)polymers	A04-C+	production	L02-B07	Automation in processing involving extruders	A09-D02
monomers, substituted	A01-D02	products	L02-D11	involving moulding	A09-D01
monomers, unsubstituted	A01-D03	Ascaricide	B12-B02 C12-B02	involving other processes	A09-D03
Aromatic oils extenders for polymers	A08-P08	Ascorbic acid	B03-F C03-F E03 E07-A02	Automotive fabrics and products	F04-E03
Aromatic polyamide fibres	A05-F05	aseptic environment	D09-B03	Automotive parts/accessories	A12-T+
chemical features	F01-D03B	Aspergillus	B04-B02B2 B04-F09A C04-B02B2 C04-F09A	Autonomic nervous system active	C12-E01
dyeing/printing	F03-F06+	Asphalt	A03-C03 B04-D02 C04-D02 H08-B L02-D10 L02-D09	general and other	B14-J02 C14-J02
Aromatic polyamides	A05-F05	composition		active (general)	B12-E01
Aromatic polyether excluding phenoxy resin	A05-H07	ground covering		Auxiliaries for dyeing/printing fibres	F03-F32
Aromatic sulphonic acid detergents	D11-A01B1	Assemblies of semiconductor devices - general	L04-F	paper	F05-A06+
Aromatisation of petroleum refinery streams	H04-E01	Astatine compounds		weaving apparatus	F02-A05
Arrhythmia treatment	B12-F01A B14-F01A C12-F01A C14-F01A	inorganic	B05-A04 C05-A04 E35-Y B05-A04 C05-A04 E05-Q	Avermectin	B02-A C02-A
Arsenic		organic	B05-A04 C05-A04 E05-Q	Avicide	B12-N05 B14-B10 C12-N05 C14-B10
catalysts	N03-H	Astatine element	B05-A04 C05-A04	Azamethine dye	E25-C
element	B05-B02B C05-B02B E31-L	Asthma treatment	B12-D02 B12-K02 B14-K01A C12-D02 C12-K02 C14-K01A	Azaphenothiazine	B06-F05 C06-F05 E06-F05
glass compositions	L01-A07A	Astringent	B12-L01 B14-R03 C12-L01 C14-R03 D08-B09B	Azepine	B07-D06 C07-D06 E07-D06
Arsenic compounds inorganic	B05-B02B C05-B02B E31-L	Asymmetric synthesis	E11-J03		
organic	B05-B01C C05-B01C E05-H				
Arsenic production	M25-G03				
Arsenide					
ceramics	L02-H05				
glass	L01-A07				
Arteriosclerosis treatment	B14-F07 C14-F07				

Azete	B07-D01 C07-D01 E07-D01
Azide (inorganic)	B05-C03 C05-C03 E31-H
Azide (organic)	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B
Azirine	B07-D01 C07-D01 E07-D01
Azo catalysts for polymerisation	A02-A02
Azo compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B
polymerisation catalyst	A02-A02
Azo dye	A08-E03A+ E21
couplers	E26-A
dis- and polyazo	A08-E03A3
reactive	E21-D
water insoluble	E21-C
water insoluble, disazo	E21-C02
water insoluble, for dyeing textiles, general	F03-F16B
water insoluble, for polyamide textiles	F03-F06B
water insoluble, for polyester textiles	F03-F07B
water insoluble, monoazo	A08-E03A2 E21-C01
water insoluble, polyazo	E21-C03
water soluble, cationic	E21-A
water soluble, for dyeing textiles, general	F03-F16A
water soluble, for polyamide textiles	F03-F06A
water soluble, for polyester textiles	F03-F07A
water soluble, monoazo	A08-E03A1
water soluble, not cationic	E21-B
Azobisisobutyronitrile	
blowing agent	A08-B03
crosslinker for addition / ethylenically	
unsaturated polymers	A08-C09
crosslinker for other polymers	A08-D04
polymerisation catalyst	A02-A02
Azocine	B07-D06 C07-D06 E07-D06
Azonine	B07-D06 C07-D06 E07-D06
Azoxy	B10-A03 C10-A03 E10-A03
dye see under Azo dye	

**B**

B-Alkylation	E11-F10
Baby food	D03-S
Baby napkins	A12-V03A F04-C01A D09-C03
with special shape	
Bacillus	B04-B02B1 B04-F10B1 C04-B02B1 C04-F10B1
Bacitracin	B02-B C02-B
Backing layers for magnetic recordings	L03-B05K2
Bacteria	B04-B02B1 C04-B02B1 D05-H04 B04-F10 C04-F10 B04-F10A C04-F10A B04-F10B C04-F10B D05-H14A1
general	
gram-negative	
gram-positive	
recombinant	
Bacterial antigens as vaccine	B02-V02 C02-V02
Bactericidal additives - see Antifouling additives	
Bactericides	B12-A01 C12-A01 A12-S05R F03-C02B A08-M02 F05-B01 B14-A01 C14-A01 G06-H02 A12-W04C
for fabrics	
for polymer	
for wood	
general	
photographic	
polymer agricultural use	
Bacteriophage	B04-F11 C04-F11
Bag making, cutting films for	A11-A05C
Bags made of polymer	A12-P02
Baits	B12-N03 B14-B14 C12-N03 C14-B14
Baker's yeast production	D05-B04
Bakery products	D01-B02 D01-A04
containers for equipment for transporting	D01-A03 D01-A
handling of	D01-A06
treatment after cooking	
Baking	D03-K01
Balata	A03-B
Bale breaking	F01-F03
Balls (sports equipment)	A12-F01B

Bandages	A12-V03A B12-M02D C12-M02D D09-C F04-E04
textiles for use as	
Bands of textile	F02-E02
Bar mills (metal rolling)	M21-A03A
Barium catalysts	N01-B
Barium compounds	B05-A01B C05-A01B E34-D03D E05-B01
inorganic	
organic	
Barium ferrite magnetic compositions	L03-B02B1
Barium production	M25-G05
Barium sulphate filler/ reinforcing agents	A08-R G01-A01
Bark	B04-A07D3 B04-A09G C04-A07D3 C04-A09G B04-A10H C04-A10H
extracts	
Barrier creams	A12-V04C D09-E03
Barrier layers, photographic	G06-A08
Bars	E12-A09B
Basic dyes for dyeing/ printing fibres	F03-F22
Basic oxygen furnaces (steelmaking)	M24-B02C
Basic refractories	L02-E04
Basidiomycetes cultivation	D05-A04C
Basins	A12-R02
Baths	A12-R02
Bats (sports equipment)	A12-F01B
Batter	
mixing	D01-A05
products	D01-B02F
transporting	D01-A03
Batteries	A12-E06+ L03-E carriers, plates connectors component production recharging repairing L03-E01D5 L03-E01D4 L03-E08+ L03-E09 L03-E10
Battery packs	L03-E01D6
Battery electrodes	
for alkaline cells	L03-E01B5
graphite and carbon	L03-E01B3
of Ni and Cd	L03-E01B4
of silver (oxide)	L03-E01B7
of zinc (oxide)	L03-E01B6
organic materials	L03-E01B9
other inorganic materials	L03-E01B8
polymer use in production	A12-E06A L03-E08B
Battings (textile)	F02-C01
Batts	F01-E09A
Bead polymerisation - see Suspension polymerisation	

Beaming (textile)	F02-A01	Benzodiazocine	B06-D07 C06-D07 E06-D07	Benzoxazine	B06-E02 C06-E02 E06-E02
Beans					
cutting	D03-J09				
peeling	D03-J07	Benzoguanamine (condensant)	A01-E01 E07-D13	Benzoxazocine	B06-E03 C06-E03 E06-E03
washing	D03-J08				
Bearings, bearing surfaces	A12-H03				
Beating in paper making	F05-A03	Benzoguanamine - formaldehyde resin	A05-B	Benzoxazole	B06-E01 C06-E01 E06-E01
Bed linen of fabric	A12-D01 F04-D01	Benzoin			
Beds, bedding	A12-D01	crosslinkers for ethylenically unsaturated polymers	A08-C	Benzoyl peroxide crosslinker for ethylenically unsaturated polymers	E10-A04 A08-C05
Beef	D02-A03B	crosslinkers for other polymers	A08-D	crosslinker for other polymers	A08-D
Beehives	A12-W04+	photopolymerisation catalysts	A02-A09	redox polymerisation catalyst system component	A02-A03
Beer	D05-B02			sole polymerisation catalyst species	A02-A01
Beet residue, animal feeds from	D03-G04	Benzophenones		Berkelium compounds	B05-A04 C05-A04 E35-R E05-Q
Belladonna alkaloid	B04-A01 C04-A01	crosslinkers for ethylenically unsaturated polymers	A08-C	inorganic	
		crosslinkers for other polymers	A08-D	organic	
Belts		photopolymerisation catalysts	A02-A09	Beryllium alloys	M26-B11
clothing	A12-C03 F04-C04	Benzopteridine	B06-D17 C06-D17 E06-D17	catalysts	N01-B
conveyor	A12-H01 F04-E07			Beryllium compounds	B05-A01B C05-A01B E34-A E05-B01
paper making	F04-E05A	1-Benzopyran	B06-A01 C06-A01 E06-A01	inorganic	
safety, vehicle	F04-E03B			organic	
vehicle safety	A12-T04E	Benzothiadiazine	B06-F03 C06-F03 E06-F03	Beryllium production	M25-G06
Bending				Beta alumina separator tubes	L03-E04A
glass	L01-G10	Benzothiazepine	B06-F03 C06-F03 E06-F03	Beta-adrenergic blocker	B12-E06B B14-J02D2 C12-E06B C14-J02D2
metal tubes	M21-B04				
polymer films, sheets, tubes, pipes	A11-B08+	Benzothiazine	B06-F02 C06-F02 E06-F02	Beverages (see also Food)	B12-J01 B14-E11 C12-J01 C14-E11 D05-E D05-F D03-H01
sheet metal	M21-E01	Benzothiazocine	B06-F03 C06-F03 E06-F03	alcoholic	
Benzazepine	B06-D04 C06-D04 E06-D04			alcoholic treatment of non-alcoholic	
		Benzothiazole	B06-F01 C06-F01 E06-F01	Biaxial drawing of film	A11-B02A A12-S06B
Benzazocine	B06-D04 C06-D04 E06-D04			Bicarbonate blowing agent	A08-B02
		Benzothiazole	B06-F01 C06-F01 E06-F01	Bicarbonates - inorganic	B05-C04 C05-C04 E31-N05
Benzene disulphonic acids derived polyesters	A05-E	Benzothiophene	B06-B01 C06-B01 E06-B01	Bichromated gelatin, photographic	G06-F03+
Benzimidazole	B06-D05 C06-D05 E06-D05 A01-E06 A05-J02			Bicomponent filaments	A12-S05B F01-E01+
condensants		Benzotriazole	B06-D08 C06-D08 E06-D08	Biguanide	B10-A17 C10-A17 E10-A17 E10-A17A E10-A17B
polymers				Biguanide polymers	A05-J11
Benzisothiazole	B06-F01 C06-F01 E06-F01	Benzoxathiazine	B06-G C06-G E06-G	Bile active	B12-G02 B14-N12 C12-G02 C14-N12
Benzisoxazole	B06-E01 C06-E01 E06-E01			Bile extracts	B04-B04H C04-B04H
Benzo(b)furan	B06-A01 C06-A01 E06-A01	Benzoxathiazole	B06-G C06-G E06-G		
Benzo(c)furan	B06-A02 C06-A02 E06-A02				
Benzocinnoline	B06-D16 C06-D16 E06-D16	Benzoxathiin	B06-C C06-C E06-C		
Benzodiazepine	B06-D07 C06-D07 E06-D07	Benzoxathiole	B06-C C06-C E06-C		
		Benzoxazepine	B06-E03 C06-E03 E06-E03		

Bilharzia treatment	B14-B03B C14-B03B	Biological warfare agents protection against	K02-A02	phenoxy resins based on	A05-H06
Binders (see also Adhesive) (meth)acrylamide (co)polymer, use in (meth)acrylate (co)polymer, use in (meth)acrylic acid/ anhydride copolymer, use in compositions electrophotographic epoxy resins, use in for concrete for core moulds for earth consolidation for food for foundry moulding (inorganic) for foundry moulding (organic) for magnetic layers and dispersions for non-woven fabrics  for oil wells for photography  from petroleum products phenol-formaldehyde resin, use in phenolic resins, use in polyethylene, use in PVA, use in PVC, use in saturated polyester, use in silicon polymer, use in	A04-D04A1 A04-F06E6 A04-F04B A12-A05+ A12-L05D A05-A01E3 L02-C A12-A02 A12-A02 D03-H01R M22-A02 M22-A03 L03-B05D4 A12-B02B F02-C02B1 A12-W10C A12-L01 G06-A06 H08-E08 A05-C03A A05-C01B1 A04-G02E1 A10-E09B1 A04-E02E2 A05-E01D1 A06-A00E1	Biological water treatment	D04-A01J J01-D07	Bisquaternary ammonium compounds	B10-A21 C10-A21 E10-A21
	Biomass	B04-D03 C04-D03	Bitumastic compositions	L02-D10	
	Biomass conversion	E11-I	Bitumen	A03-C03 B04-D02 C04-D02 H08-B in polymeric blend	A07-A01A
	Biomass production by fermentation	D05-C13	Bituminous plastics	A03-C03	
	Bioremediation using microorganisms	M25-F02	Black and white silver halide bleach-fixing	G06-G02	
	Biorientation - see Biaxial drawing		developing	G06-G01	
	Biosimilars	B04-R C04-R	fixing	G06-G02	
	Biosensor	J04-B05	other processes	G06-G04	
	Biosynthesis	B11-A C11-A D05-A D05-C	stabilisation	G06-G03	
	using algae	B11-A03 C11-A03	Blades		
	on hydrocarbon substrates	H04-E02	aircraft propeller	A12-T04	
	using enzymes	B11-A02 C11-A02	fan	A12-H	
	using microorganisms	B11-A01 C11-A01	for cutting plastics	A11-A05+	
	Bird killing	B12-N05 B14-B10 C12-N05 C14-B10	razor	A12-V04	
	Bird repellents	B12-N05 B14-B13 C12-N05 C14-B13	turbine	A12-H	
	Birth control devices	A12-V03B1 B12-K03 B14-P01 C12-K03 C14-P01	Blankets		
	Bis(hydroxyethyl)-terephthalate	A05-E04A	bedding	A12-D01 F04-D01	
	Biscuits	D01-B02C	electric	A12-D01 A12-E10	
	Bishaloformates +diamine based polyurethane condensants	A05-G A01-E12	non-woven	F02-C01	
	Bismaleimide (co)polymers by addition monomer	A04-B11 A01-C06	printing	A12-W07F	
Bismaleimide-amino polymer - see Polyamino-bismaleimide		Blast furnace pig manufacture	M24-A02		
Bismuth		by applying additives	M24-A02A		
alloys	M26-B	making slags of special composition	M24-A02B		
catalysts	N03-H	Blasting	K03-B		
Bismuth compounds	B05-A02 C05-A02 E35-M E05-J	compositions	A12-T03A		
inorganic	E35-M	gas generation for	K04-C		
organic	E05-J	Blasting-caps	K04-B01		
Bismuth production	M25-G07	Bleach activators	D11-B01D1		
Bisphenol A	E10-E02D4	booster	D11-B01E		
condensant	A01-E13	catalysts for	D11-B01D2		
diallyl ether monomer	A01-C02	Bleaching			
diglycidyl ether	A05-A02	agents (optical), detergent	D11-B01		
epihalohydrin polyethers	A05-H06	agents (optical), inorganic	A08-E02		
epoxy resins based on	A05-A02	agents (optical), organic	A08-E03C		
		apparatus	A11-A01B		
		black and white (photographic)	G06-G02		
		catalysts for dye bleaching	G06-C03		
		colour (photographic)	G06-G11		
		composition (non-photographic)	G04-B08		
		enzymatic	D11-B01D3		
		fabrics	F03-B01		
		hair	D08-B06		
		paper pulp	F05-A02B		
		process	A11-A01B		
		using specific compositions	A11- A01A		
		wood	F05-B		
		Blending (see also Mixing)			
		equipment	A11-A03A		
		polymer compositions	A11-A03+		
		yarn processes	F01-F		
Biological gas separation methods	J01-E03H				
Biological procedures in tests	B11-C08E C11-C08E				
Biological repellents for fabrics	A12-S05R F03-C02B				

Blends of polymers (see also Mixtures) containing addition (co)polymers only	A07-A+	Lymphocytes	B04-F04B1 C04-F04B1	Boiler feed, anticorrosion additives	A12-W11J D04-A03
containing addition and condensation polymers	A07-A02+	Macrophages	B04-F04B2B C04-F04B2B	Boiling apparatus	J05-A
containing condensation polymers only	A07-A04+	Neutrophil	B04-F04B2C C04-F04B2C	Boiling pans (sugar)	D06-D
containing natural polymers	A07-A03+	Other white blood cells	B04-F04B2 C04-F04B2	Bolts	A12-H12
	A07-A01+	Others	B04-F04B2D C04-F04B2D	Bombs	K03-A01
Blinds (for windows etc.)	A12-R02	T-lymphocytes	B04-F04B1A C04-F04B1A	Bonding of contacts on electrical components	L03-A01B6
Blister packs	A12-P06C	abnormal number or ratio	B14-F03 C14-F03	Bonding processing in semiconductor manufacture - general	L04-C17
Blixing, photographic	G06-G02	Blossom retarding (plants)	B12-P03 C12-P03 C14-U01B	Bonding, heat sealing agents, aids	A11-C01+ A08-M01+
Block copolymerisation	A10-C02	Blossom stimulating (plants)	B12-P03 C12-P03 C14-U01B	agents, aids, acids, metal compound	A08-M01C A08-M01B
Blocked polyisocyanates crosslinkers	A08-D04A	Blow moulding	A11-B10	agents, aids, silicon compounds	A08-M01D
Blocking agents for condensants/monomers for crosslinkers, for ethylenically unsaturated and addition (co)polymers for crosslinkers, for other polymers	A02-C A08-C06 A08-D+	Blowing melt	F01-C07A	fibrous webs to give non-woven fabric	A12-B02B F02-C02B+
Blood	B04-B04D C04-B04D	Blowing agents others	A08-B+ A08-B	using adhesive (for specific goods)	A11-C01C
Albumin (serum)	B04-B04D2 C04-B04D2	pore formers	A08-B04	using adhesive (general use)	A11-C01D
bags	A12-V03B	pressurised gases	A08-B04	Bone disorder treatment	B12-J08 B14-N01 C12-J08 C14-N01
blood proteins	B04-B04D2 C04-B04D2	releasing carbon dioxide	A08-B02	Bone (including marrow)	B04-B04E C04-B04E D09-C01D
dialysis filtration	J01-C03B1 J01-F04X2	releasing nitrogen	A08-B03	artificial	
Haemoglobin	B04-B04D2 C04-B04D2	soluble materials	A08-B04	Bone Morphogenetic Protein	B04-H06L C04-H06L
handling apparatus	A12-V03B	volatile materials	A08-B04+	Book binding	A12-W07+
parasite	B04-B02B C04-B02B	Blowing glass	L01-E03	Boots - see Footwear	
parasite (microbial)	B04-F01 C04-F01	Blowing of tubular films	A11-B07A A12-S06A	Borate containing glass compositions	L01-A06
parasite (nonmicrobial)	B04-P01 C04-P01	Blue sensitive (electro)-photographic layers	G06-C14B	Borazoles	E05-C E05-C01 E05-C02 A01-A01
plasma	B04-B04D4 C04-B04D4	Blueing agents	D11-B01C	condensants/monomers	
serum	B04-B04D4 C04-B04D4	BMC	A12-S	Bordetella	B04-F10A1 C04-F10A1
substitutes	B12-H06 B14-F11 C12-H06 C14-F11	Board games	A12-F01	Boride containing hard alloys	M26-B12
sugar increasing	B14-F10 C14-F10	Boards	A12-A04+ F05-A06+ A12-A04B F05-A07	Borides	L02-F03 L02-H02B1
sugar lowering	B12-H05 B14-F09 C12-H05 C14-F09	cardboard	A12-A04A A12-A04B F05-A07	Boriding metals	M13-D M13-D03B M13-D02B M13-D01B
vessels, artificial	A12-V02 D09-C01B	chipboard	A12-R01A L02-D07A A12-A04B F05-A07	using gases	
whole blood	B04-B04D5 C04-B04D5	decorative fibreboard	A12-R01A L02-D07A A12-A04B F05-A07	using liquids	
Blood cells	B04-F04 C04-F04	gypsum	A12-R01A L02-D07A A12-A04B F05-A07	using solids	
Red blood cells	B04-F04A C04-F04A	particleboard	A12-A04C F05-B	Boron	N01-D N01-D01 B05-B02C C05-B02C E31-Q
White blood cells	B04-F04B C04-F04B	plywood	A12-A04C F05-B	element	
B-lymphocytes	B04-F04B1B C04-F04B1B	Bobbin handling, in winding (textile)	F01-H03C	Boron-alkylation	E11-F10
Dendritic cells	B04-F04B2A C04-F04B2A	Bobbin lace	F02-E01	Boron compounds	A01-A01 A08-R05 A08-A04A
		Bobbins	F01-H03A	condensants/monomers	
		Body joints, artificial	A12-V02 D09-C01D	fillers/reinforcing agents	
		Body parts preservation (chemical)	D09-A01 D09-A03	heat stabiliser for polymers	
		Body wash	D08-B09A2 D08-B09A2A D08-B09A2B		
		Liquid			
		Solid			
		Boil-in-bag food packs	A12-D03		

inorganic	B05-B02C C05-B02C E31-Q	Break spinning	F01-G05	Broncholytics	B12-K02 C12-K02
organic	B05-B01A C05-B01A E05-C E05-C01 E05-C02	Breathing apparatus	K02-B	Bronchospasmolytics	B12-E02 B12-K02 C12-E02 C12-K02
Boron containing compound crosslinkers for ethylenically unsaturated polymers	A08-C09	Brewer's yeast production	D05-B04	Brooms	A12-D03
for other polymers	A08-D05	Brewing devices	D05-B D05-J	Brushes	
Boron containing compounds		Bridged carbocyclic metallocenes	E05-V02	electrical	A12-E08B
Boron in polymers		Bridge construction	A12-R	fibre/filaments use in hair	F04-G A12-V04A
by addition polymerisation	A04-A	Brighteners for metal electroplating	M11-B01	household paint	A12-D03
by condensation polymerisation	A06-C	Brighteners for paper, cardboard	F05-A06D	shaving tooth	A12-V04 A12-V04B
by polymer modification	A10-E22	Brighteners, fluorescent (textile)		Bryophytes	B04-A08A C04-A08A
Boron trifluoride	E31-Q	benzoxazole type	E24-A E24-A04 E24-A02 E24-A04B	BSE treatment	B14-N16A C14-N16A
crosslinker for ethylenically unsaturated polymers	A08-C09	coumarin type	E24-A02 E24-A04B	Bubbles, magnetic	L03-B06
crosslinker for other polymers	A08-D05	other	E24-A03 E24-A04C	Buckets	A12-D04
polymerisation catalyst	A02-A04	stilbene type	E24-A01 E24-A04A	Buckminsterfullerene	B05-U02 E05-U02 L02-H04B
Boronising, using solid	M13-D01B	Brighteners, optical		Buckyballs	L02-H04B
Borosilicate containing glass compositions	L01-A06	inorganic	A08-E02	Buffers (polymerisation control)	A02-D01
Borrelia	B04-F10A2 C04-F10A2	organic	A08-E03C	Build-up welding (electric arc)	M23-D01A2
Bottles		Brighteners, photographic	G06-H09 G06-H09C G06-H09A G06-H09B G06-H09D	Builders for detergents	D11-B03
glass, coating of	A12-B05 L01-G04A A12-P06A	coumarin type	G06-H09C	Building board	A12-R+ L02-D07
plastic	A12-P06A	oxazole type	G06-H09A	board fittings/fixtures	A12-R02+ L01-L01
Bovine Spongiform Encephalopathy treatment	B14-N16A C14-N16A	stilbene type	G06-H09B	glass in polyethylene, use in	A04-G02E4
Bowel disease treatment	B14-E10C C14-E10C	thiazole type	G06-H09D	polyurethane foam, use in	A12-S02F
Inflammatory bowel disorder	B14-E10C1 C14-E10C1	Brighteners, polymeric plating bath additives	A12-W12E	PVC use in unsaturated polyester, use in	A04-E02E1 A05-D02E1
Boxes	A12-P06B	Brightening metals chemically	M14-B	Bulimia	B14-E11D C14-E11D
Bradykinin	B04-C01B B04-J01 C04-C01B C04-J01	Briquettes (coal)	H09-F	Bulk colouring agents	A08-E+ A11-A01B
Braid lace	F02-E01	Briquetting coal	H09-F	processes with specific materials	A11-A01A
Braiding	F02-E01	ferrous ore	M24-A01A	Bulk dyeing before fibre formation	F03-F30
Braiding machines	F02-E01	non-ferrous ore	M25-A02	Bulk graft copolymerisation	A10-C03C
Brake materials (polymer use)	A12-H10	Bristles	A12-S05E F01-E05	Bulk moulding compounds	A12-S
Bran	B04-A07D B04-A09F C04-A07D C04-A09F	Brominated/ bromination of polymers	A10-E04A	Bulk polymerisation	A10-B02
extracts	B04-A10G C04-A10G	Bromine catalysts	N04-D	Bulked fibres	A12-S05C F01-E01A F01-E04
Brazing apparatus	M23-A M23-A03	Bromine or derivatives (see also Halogen or derivatives)		Bulking of fibres	F01-H04
fluxes	M23-A02	Bromo - (see also Halo-)		Bulking polymeric films/fibres	A11-B02D
metal compositions	M23-A01	Bromostyrenes (co)polymers	A04-C A01-D02	Bumpers, vehicle	A12-T04D
methods	M23-A04	monomer	A04-C A01-D02	Bunt treatment	C14-A06S
printed circuits (including soldering)	L03-H04E6	Bromosulphonated/ bromosulphonation of polymers	A10-E12B	Buoys	A12-T
Bread	D01-B02A	Bronchitis treatment	B12-K06 B14-K01 C12-K06 C14-K01	Buried layer formation in semiconductors	L04-C10G
Break detection in winding	F01-H03B	Bronchoconstrictors	B14-K01C C14-K01C	Burn treatment	B12-A07 B14-N17A C12-A07 C14-N17A
		Bronchodilators	B12-K02 B14-K01D C12-K02 C14-K01D		



Burr removal on metal castings	M22-G03H	<b>C</b>		Calcium carbonate filler/reinforcing agent	A08-R G01-A01	
polymers	A11-A05B			Calcium catalysts	N01-B	
Butadiene (co)polymers in polymeric blends	E10-J02C		CAB	A03-A02 A03-A03	Calcium compounds	B05-A01B C05-A01B
copolymer with acrylonitrile	A07-A+		Cabinets		inorganic	E34-D
copolymer with styrene	A04-B04		as furniture	A12-D01	organic	E05-B01
copolymer with styrene and acrylonitrile (ABS)	A04-B03+		for electrical goods	A12-E05	Calcium entry blockers	B12-F05B B12-G01 B14-F02B2
copolymers (other)	A04-C03		Cable drilling	H01-B04		C12-F05B C12-G01 C14-F02B2
diepoxide	A04-B05		Cables		Calcium halides	E34-D02
homopolymers	A05-A		optical, coatings	G02-A05H	Calcium hydroxide	E34-D01
homopolymers production	E07-A03A		Cables (see also Electrical)	A12-P07	Calcium nitrate	E34-D03
monomer	A04-B02+			F04-A	Calcium oxide	E34-D01 L02-B01
Butane diol condensant	A01-C05		coatings on polymeric	L03-A01B1	Calcium production	M25-G05
diglycidyl ether	E10-E04H1		foam use in	A12-B07C	Calcium sulfate cements	E34-D02 L02-C05
	A01-E14		insulation	A12-S04E	Calcium sulfites	E34-D03
	A05-A03		joints	A12-E02+	Calcivirus	B14-A02B0 C14-A02B0
	E07-A03B		optical	L03-A01B2	Calendering, calenders of fabrics	A11-B03 F03-A01
			optical glass fibre	A12-L03A	Calenders, for papermaking machines	F05-A05
			textile	L01-F03L	Californium compounds	B05-A04 C05-A04
Butane diol + isocyanate based polyurethane	A05-G04			F04-A	inorganic	E35-R
Butene-1 copolymer with ethylene	E10-J02C		Cabling of yarn	F01-H01	organic	E05-Q
copolymer with propylene	A04-G06+	Cacheixia treatment	B14-E11B C14-E11B	Calmant	B12-C10 B14-J01B4 C12-C10 C14-J01B4	
copolymers, other	A04-G09	Cadmium		Cameras	A12-L02A	
homopolymer	A04-G04	alloys	M26-B07	Camouflage textiles	F04-E02	
monomer	A01-D13	catalysts	N03-F02	Camping equipment	A12-F01	
Butt welding, resistance	M23-D02A1	electrodes for batteries	L03-E01B4	Cancer cells	B04-F02A C04-F02A	
Butter	D03-B	Cadmium compounds		Cancer diagnoses	B12-K04A1 C12-K04A1	
	D03-B12	as pigment or filler		Cancer treatments	B14-H01 C14-H01	
Butter substitutes	D03-C	inorganic		Dermatological cancers	B14-H01C C14-H01C	
Button holes for garments	F04-C04	organic		Endocrine cancers	B14-H01D C14-H01D	
Button holes, cutting fabric for	F04-F01	Cadmium production	M25-G09	Bladder cancers	B14-H01F6 C14-H01F6	
Button holes, sewing of	F02-F01A1	Cadmium selenide	L04-A03B	Breast cancers	B14-H01D1 C14-H01D1	
Buttons	A12-C03 F04-C04	Cadmium sulphide	L04-A03A	Thyroid cancers	B14-H01D2 C14-H01D2	
Butyl lithium polymerisation catalyst (excluding with transition metal (compounds))	A02-A07B	Caesium see Cesium		Gastrointestinal cancers	B14-H01E C14-H01E	
Butyl rubber	A04-G05A	Caffeine	B04-A06 C04-A06	Colon cancers	B14-H01E1 C14-H01E1	
Butylated melamine-formaldehyde resin	A10-E08C	Cake	D01-B02B	Oesophageal cancers	B14-H01E2 C14-H01E2	
Butylene - see Butene-1		Calciferol	B03-G C03-G	Gall bladder cancers	B14-H01E3 C14-H01E3	
		Calcitonin	B04-B02D3 B04-J04A C04-B02D3 C04-J04A			
		Calcium agonists	B14-F02A C14-F02A			
		Calcium alloys	M26-B			
		Calcium aluminate cements manufacture	L02-C07			
		Calcium aluminate sulphate trihydrate cements manufacture	L02-C05			
		Calcium antagonists	B14-F02B2 C14-F02B2			
		Calcium carbonate	E34-D03A			

Intestinal cancers	B14-H01E4	Canning of foodstuffs	D03-H02F	Carbodiimide	B10-A20
Hepatic cancers	C14-H01E4	Cap spinning	F01-G02		C10-A20
	B14-H01E5	Capacitive pastes, thick film	L03-B03C		E10-A20
	C14-H01E5	Capacitive touch panel	L03-G05I		E10-A20A
Pancreatic cancers	B14-H01E6	Capacitors		Carbohydrate (excluding sucrose)	E10-A20B
	C14-H01E6	electrical, general	A12-E07B		B04-D01
Rectal cancers	B14-H01E7		L03-B03		C04-D01
	C14-H01E7	electrolytic	L03-B03A		D06-G
Stomach cancers	B14-H01E8	inorganic	L03-B03G		D06-H
	C14-H01E8	monolithic	L03-B03B	as detergent additive	D11-B10
Genitourinary cancers	B14-H01F	multilayer	L03-B03J	Carbolines	B06-D15
	C14-H01F	thick film	L03-B03C		C06-D15
Cervical/uterine cancers	B14-H01F1	Capillary permeability			E06-D15
	C14-H01F1	increasing	B12-H02	Carbomycin	B02-C01
Kidney cancers	B14-H01F2		B14-F04		C02-C01
	C14-H01F2		C12-H02	Carbon and graphite	
Ovarian cancers	B14-H01F3		C14-F04	general	L02-H04
	C14-H01F3	Capped sequences		conductors	L03-A02B
Prostate cancers	B14-H01F4	Nucleic acids	B04-E01X	Carbon black	B05-C06
	C14-H01F4		C04-E01X		C05-C06
Testicular cancers	B14-H01F5		D05-H12H		E31-N
	C14-H01F5	Oligonucleotides	B04-B03F1	electroconductive filler	A08-R03
Immunological cancers	B14-H01G	Caprolactam	B07-D06	filler/reinforcing agents	A08-R03
	C14-H01G		C07-D06		G01-A11
Hodgkin's lymphoma	B14-H01G1		E07-D06	pigments	A08-E02
	C14-H01G1	condensant	A01-E04		G01-A11
Non-Hodgkin's lymphoma	B14-H01G2	polyamide (derived from)	A05-F03	product from petroleum	H08-E01
	C14-H01G2	Caprolactone	E07-A03C	production	
Musculoskeletal cancers	B14-H01H	condensant	A01-E12	production from petroleum	H04-B01
	C14-H01H	polyester (derived from)	A01-E14	Carbon catalysts	N04-A
Osteocancers	B14-H01H1	Caps (including safety) for	A05-E02	supporting Pd or Pt	N02-F01
	C14-H01H1	bottles etc.		Carbon ceramics	L02-H04
Sarcoma	B12-G07		A12-P03	Carbon chain expansion/ contraction process	B11-C01
	C12-G07		B11-C06A		C11-C01
	B14-H01H2		C11-C06A		E11-B
Neurological cancers	C14-H01H2	Capsules (not microcapsules)	B12-M11C	oligomer-/telomerisation	E11-F01
	B14-H01J	detergent use	C12-M11C	addition of CO(2)	E11-F02
	C14-H01J	Car parts and accessories	D11-D02B	other chain extension	E11-F03
Brain tumours	B14-H01J1		A12-T04+	contraction	E11-G02
	C14-H01J1	Carbamates inorganic		Carbon compounds (inorganic)	E31-N05
Oral and respiratory cancers	B14-H01K	(including thio)	E31-H	Carbon dioxide	B05-C04
	C14-H01K	removal from water	D04-B07C		C05-C04
Buccal cavity and pharynx cancers	B14-H01K1	Carbamic acid or ester			E31-N05
	C14-H01K1	(organic)	E10-A12C1	Carbon disulphide	B05-C04
Larynx cancers	B14-H01K2	Carbamic acid, or ester			C05-C04
	C14-H01K2	(organic)	B10-A12C	Carbon electroconductivity agents	E31-N05
Lung cancers	B14-H01K3		C10-A12C		A08-M09A1
	C14-H01K3	Carbamides	E10-A12C	Carbon electrodes for batteries	L03-E01B3
Other cancers	B14-H01L		E10-A12C2	Carbon fibre--	
	C14-H01L	Carbapenems			F01-D09A
Multiple myelomas	B14-H01L1		C02-P		L02-H04A
	C14-H01L1	Carbazoles	C06-D04		F03-F12
Candida	B04-B02B2		B06-D13	dyeing	F03-F12
	B04-F09	Carbides	C06-D13	graphitisation	E31-N02
	C04-B02B2		E06-D13	printing	F03-F12
	C04-F09	abrasive	E31-N05	production	E31-N01
Candles	D10-B03	cemented	L02-H02	reinforcing agents	A08-R03A
disinfection/deodorisation		ceramic	L02-F03	use	E31-N04E
of air	D09-B02	hard alloys	L02-J01B	Carbon fillers	A08-R03+
Candy	B03-E10+		L02-H02A		G01-A11
	C03-E10+		M26-B12	Carbon isotopes	B05-A04C
Chewy	D03-E10B+				C05-A04C
Hard	D03-E10A+			Carbon modification	E31-N02
Cannabinoid agonist	B14-L01B				
	C14-L01B				
Cannabinoid antagonist	B14-L06B				
	C14-L06B				

Carbon monoxide	B05-C08 C05-C08 E31-N05B1	Carbonised lace	F02-E01	Carboxylic acid esters	B10-G02 C10-G02 E10-G02
complex catalyst	N05-B	Carbonising rags	F01-B01	plasticiser	A08-P +
copolymer by addition	A04-A05	Carbonitriding, using solid	M13-D01B	Carboxylic acid esters, monoolefinic	B10-G02 C10-G02 E10-G02
hydrogen mixture	E31-A	Carbonylation reaction	B10-A01 C10-A01 E10-A01	aliphatic: (co)polymer (acrylic) - (see also acrylate, alkyl)	A04-F06+
monomer/condensant	A01-A	hydroformylation	E11-F02A	aliphatic: (co)polymer (non-acrylic)	A04-F07
Carbon nanotubes	L02-H04B B05-U03 C05-U03 B05-U04 C05-U04 E05-U03 E05-U04	of olefinic bonds	E11-F02A	aliphatic: monomer	A01-D10
double-walled	E05-U03B	Carboxylation reaction (addition of CO2)	E11-F02B	Carboxylic acid esters, thio	B10-G01 C10-G01 E10-G01
multiple-walled	E05-U03C	Carbonyl complex catalysts	N05-B	Carboxylic acid halides	B10-A25 C10-A25 E10-A25
single-walled	E05-U03A	Carbonyl halides inorganic	B05-C07 C05-C07 E31-N05	condensant, alicyclic	A01-E12
Carbon paper	A12-D05A G05-D	Carbonyl of metal - see metal		condensant, aliphatic	A01-E12
Carbon production (general)	E31-N03	Carbopols ®	A04-A03 A04-F04+	condensant, aromatic	A01-E11
active	E31-N03C	Carboranes	E05-C E05-C01 E05-C02 A01-A01	Carboxylic acid halides, monoolefinic (co)polymers	A04-E A01-D12
diamond	E31-N03A	condensants/monomers		Carboxylic acid imides	B10-A24 C10-A24 E10-A24 E10-A24A E10-A24B
graphite	E31-N05B	Carboxy group formation/ formed in polymer (excluding hydrolysis)	A10-E23	Carboxylic acid, alicyclic	B10-C04A C10-C04A E10-C04A
Inert	E31-N05D	Carboxyalkyl starch	A10-E08C B04-C02B C04-C02B	condensant	A01-E12
Carbon refractories	L02-E07	Carboxylase inhibitor	B14-D08 C14-D08	Carboxylic acid, aliphatic	B10-C04 C10-C04 E10-C04 A01-E12
Carbon sorption (petroleum processing)	H02-B03	Carboxylated acrylonitrile- butadiene rubber	A04-B05 A04-D03 A04-F04	condensant containing hydroxy, aldehyde or ketone	B10-C04D C10-C04D E10-C04D
Carbon tetrabromide	E10-H02D E10-H03D2 E10-H04D2	Carboxylated styrene- butadiene rubber	A04-B05 A04-C04+ A04-F04+	General acyclic monocarboxylic acid	B10-C04E C10-C04E E10-C04E
flame retardant	A08-F04C	Carboxylic acid amides	B10-D03 C10-D03 E10-D03	Substituted acyclic monocarboxylic acid	B10-C04E1 C10-C04E1
Carbon thermal conductivity agents	A08-M09C1	aliphatic, monoolefinic (co)polymer uses	A04-D04A+	Other saturated monocarboxylic acid	B10-C04E6 C10-C04E6
Carbon type fillers	A08-R03+ G01-A11	aliphatic, monoolefinic (co)polymers	A04-D04+	Other unsaturated monocarboxylic acid	B10-C04E4 C10-C04E4
Carbon use	E31-N04	aliphatic, monoolefinic monomer	A01-D06 A01-E03	Carboxylic acid, aromatic	B10-C C10-C E10-C
Carbon, activated	J01-E02B3 J01-E03C3	condensant	A01-E03	condensant	A01-E11
Carbon, element	B05-C06 C05-C06 E31-N L02-H04	Carboxylic acid amides, thio	B10-D02 C10-D02 E10-D02	Carboxylic acid, di- see Polycarboxylic acid	
Carbon-less paper	A12-D05A G05-D	Carboxylic acid anhydrides	B10-A25 C10-A25 E10-A25 E10-A25A1 E10-A25A2	Carboxylic acid, mono- unsaturated (non-acrylic) (co)polymers	E10-C04E A04-F05 A01-D08
Carbonates, as detergent additive	D11-B11 D11-B11C	aliphatic, monoolefinic (co)polymer uses	A04-D04A+	monomer	A01-D08
Carbonates, inorganic (general)	B05-C04 C05-C04 E31-N05	aliphatic, monoolefinic (co)polymers	A04-D04+	Carboxylic acid detergents	D11-A01A1
Carbonic acid	E31-N05C B10-A11B C10-A11B	aliphatic, monoolefinic monomer	A01-D06 A01-E03		
Carbonic acid esters	B10-A11B C10-A11B E10-A11B E10-A11B1 E10-A11B2	condensant	A01-E03		
Carbonic anhydrase inhibitor	B12-G01B4 B14-D08 C12-G01B4 C14-D08	Carboxylic acid amides, thio	B10-D02 C10-D02 E10-D02		
Carbonisation, carbonised polymers	A10-E05B	Carboxylic acid anhydrides, monoolefinic (co)polymer (acrylic)	A04-F04 A04-F05 A01-D08		

Carboxylic acid, monoolefinic (acrylic)	E10-C04G	Cardioactive	B12-F01	Casting metal	M22-G
(co)monomer	A01-D08		B14-F01	centrifugal	M22-G03B
polymer	A04-F04+		C12-F01	chill	M22-G03C
polymer adhesives/coatings	A04-F04B	Cardiotonic	C14-F01	continuous	M22-G03A
polymer preparation/ composition	A04-F04A		B12-F01B	control and testing	M22-G03J
Carboxylic acid, poly - see Polycarboxylic acid			B14-F01B	die	M22-G03D
Carboxylic acid, thio	B10-C01		C12-F01B	Directional solidification	M22-G03L
	C10-C01	Cardiovascular	C14-F01B	fettling and post-treatment	M22-G03H
	E10-C01		B12-E01	For aero engines	M22-G03K1A
Carboxylic amide detergents	D11-A01A3		B12-F01	For IC engines	M22-G03K2
Carboxylic ester detergents	D11-A01A2		B14-F01	For turbines	M22-G03K1
Carboxymethyl cellulose	A03-A04+		B14-F02	furnaces, ladles and ancillary equipment	M22-G03G
	B04-C02A2		C12-E01	ingots for forging	M22-G02
	C04-C02A2	Cards	C12-F01	Investment casting	M22-G03N
	D06-H	pattern, for knitting machines	C14-F01	machines and processes	M22-G03
uses	A03-A04A	pattern, for looms	C14-F02	mold cleaning apparatus	M22-G03G7
Carboxyvinyl polymer - see Carbopols		punch, for knitting machine		mold handling apparatus	M22-G03G8
Carburettors	A12-T04C		F02-B01	pigs	M22-G01
Carburising metal	M13-D		F02-A02	Rapid Solidification	
using gas	M13-D03A		F02-B01	Processes	M22-G03M
using liquid	M13-D02A	Carotenoid		treatment of metal in the mould	M22-G03G4
using solid	M13-D01A		B03-A	vacuum	M22-G03E
Carcinogen	B14-H02	Carotenoid dyes	C03-A	Casting molten ceramics	L02-A05
	C14-H02		E25-B	Casting polymers	A11-B04+
Carcinoma	B04-F02A	Carpet back coatings		by other specific moulding	A11-B04B
	C04-F02A		F03-E01	by rotational moulding	A11-B04A
Cardboard	F05-A06+	Carpets	F04-D	forming films, sheets, lace	A11-B04C
adding (in)organic compounds	F05-A06D		A12-D02	with condensant/ monomer and polymerising	A11-B04+
adding polymers or resins to	F05-A06C	tufted	F04-D04		
applying coatings to	F05-A06B	woven	F02-D		
coatings on	A12-B03+	Carrageenan	F02-A03A		
corrugated	F05-A06A		A03-A+	Casts (medical)	A12-V03A
multiply materials	F05-A06A	Carrier	B04-C02D	Cataleptics	B12-C03
production	A11-B09B	having adhesive	C04-C02D		B14-J01B
	F05-A04+				C12-C03
	F05-A06	Carrier layers, photographic			C14-J01B
Cardiac agents	B12-F01		G06-A	catalysts	J04-A02
	B14-F01	Carriers		Catalysts	J04-E
	C12-F01	electrophotographic	A12-L05C2	cadmium	N03-F02
	C14-F01	for micro-organisms	A12-W11L	carrier for petroleum refining	
Cardiac arrest treatment	B12-F01B	CAR T-cell therapy	D05-A03A	carrier for polymerisation	H04-F03
	B14-F01B		B14-S21B	carrier, general	A02-D
	C12-F01B	Cartilage (or extract)	C14-S21B	carrier, oxide	J04-E03
	C14-F01B		B04-B04E	cerium	L02-G12
Cardiac depressant	B14-F01C	Cartons	C04-B04E	containing phosphorus	N03-A02A
	C14-F01C	for fibres			E31-K01
Cardiac disorder diagnoses	B12-K04A2	Cartridges	A12-P06B		N04-B
	B12-K04G2B		F01-H03A	composition, petroleum processing	N05-E01
	C12-K04A2	Casein	K03-A01		N06-B03
	C12-K04G2B		A03-C01	deactivator	H04-E06
Cardiac insufficiency treatment	B12-F01B	Cast components	B04-B04A6		A02-C
	B14-F01B	electrical	B04-N02	dehydrogenation	J04-E04B
	C12-F01B	other products	C04-B04A6	destruction	A10-G01A
	C14-F01B		C04-N02	electrocatalyst	J04-E04D
Cardiac stimulants	B12-F01B	Cast iron		electrocatalytic reactions	N07-G
	B14-F01B	alloys treatment	M27-B03	fixed bed	N06-C05
	C12-F01B	production	M24-B01B	fluidised bed	N06-C06
	C14-F01B	spheroidising	M24-C05	for hydrocarbon processing	H04-F
Carding yarn processes	F01-F01	Castable (slip) refractories	L02-E05	for sensor application	J04-E09B
			L02-A03	fuel cell electrode	L03-E04B1
		Casting (slip)	L01-D02	gallium	N03-G04
		Casting glass		general	N06
				germanium	N03-G02
				heterogenous	N06-C12
				heteropolyacid	N06-C13
				homogenous	N06-C04
				hydrogenation	J04-E04B
				indium	N03-G01
				lanthanides (general)	N03-A02

lanthanides (other than cerium)	N03-A02B	reforming	H04-C02	Cellophane	A03-A05
lanthanum	N03-A01	removal of nitrogen oxides from waste gases	E31-H01 N07-L02C	Cells, electrical	L03-E
lead	N03-G04	waste gas treatment	J01-E02D N07-L01C	polymer use in primary	A12-E06+ L03-E02
mercury	N03-F02	waste treatment apparatus	J04-E09A	primary and secondary, components	L03-E01
oxidation/reduction	J04-E04A	Catalytic proteins	B04-L01 C04-L01	primary and secondary, components electrode	L03-E01B
organic N compounds	N05-D	Catamenial devices with special shape	B12-M02D C12-M02D D09-C02	primary and secondary, components, electrolyte	L03-E01C
organic polymer	N05-E03A	Cataplasm	A12-V03A B12-M02C C12-M02C D09-C04A	primary and secondary, components, non-active component	L03-E01D
palladium carboxylate	N02-F04	Cataractic treatment	B12-L04 B14-N03 C12-L04 C14-N03	primary and secondary, components, separator	L03-E01A
palladium inorganic cpd	N02-F05	Catarrr treatment	B12-D02 B14-K01E C12-D02 C14-K01E	secondary component production	L03-E03 L03-E08
phase transfer	N06-H	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Cells, electrolytic	J03-B02
platinum carboxylate	N02-F06	Catarrh treatment	B12-D02 B14-K01E C12-D02 C14-K01E	polymer use in	A12-E09
platinum inorganic compound	N02-F05	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Cells, electrolytic (metallurgy)	M28-C
polymer use in	A12-W11K	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	construction and assembly	M28-C03
polymerisation	A02-A+	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	electrodes	M28-C01
production, manufacture	H04-F05 J04-E11	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	operating and servicing	M28-C02
promoter	N06-G	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Cells, fuel	L03-E04
radium	N03-A03	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	polymer use in	A12-E06+
recovery from polymer	A10-G01A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	solid oxide electrolyte	L03-E04A
recovery with S removal	E31-F01	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Cells, living	B04-B04A B04-F01 C04-B04A C04-F01 B04-F07B C04-F07B
regeneration/recovery	J04-E05 N06-E+	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	animal	B04-F01 C04-F01
resin, organic	N05-E03A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	avian	B04-F07E
scandium	N03-A01	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	avian (transgenic)	B04-F07E0E C04-F07E0E
support	N06-F	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	blood	B04-B04D1 B04-F04 C04-B04D1 C04-F04
support, for polymerisation	A02-D	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	cancer/carcinoma	B04-F02A C04-F02A
support, polymer use as	A12-W11K	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	chimeric/fused	B04-F05A C04-F05A
testing	J04-E10	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	culture	D05-H08
thallium	N03-G04	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	culture tests	B11-C08E1 C11-C08E1
thorium	N03-A03	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	division inhibitors	B12-G07 B14-H01B C12-G07 C14-H01B
tin	N03-G03	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Eucaryotic	B04-F01 C04-F01
titanic acids	N03-B01A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	Fish	B04-F07D C04-F07D
titanium element	N03-B01A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	hybridomas	B04-F05 C04-F05 D05-H15
titanium hydroxides	N03-B01A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	insect	B04-F07A C04-F07A
titanium oxides	N03-B01A	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	mammal	B04-F02 C04-F02
unspecified	N06	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	monoclonal antibody producing	B04-F05 C04-F05
yttrium	N03-A01	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1	ova	B04-F03 C04-F03
zinc	N03-F01	Catarrh treatment	B12-D10 B14-J01B1 C12-D10 C14-J01B1		
Catalytic		Cathode ray tubes	A12-E11A G06-D06		
chain contraction	N07-F05	production of	G06-D06		
chain expansion	N07-F05	resists used in manufacture	A12-L02B2		
cracking	H04-B02 N07-F02 N07-F07	structural parts for	L03-C03		
cyclization	N07-F07	Cathode sputtering			
decyclization	N07-F08	apparatus for			
dehydration	N07-F06B	semiconductor manufacture	L04-D02		
dehydrogenation of C-C bonds	N07-C02	magnetrons	M13-G02B		
dehydrogenation process (other than of C-C bonds)	N07-C03	Cathodes - see Electrodes			
dehydroxylation	N07-F06B	Cathodic protection	M14-G		
detection process	N07-L03B	Cathodic sputtering			
diaphragm	N06-C03	apparatus including			
electrode	N06-C02	target materials	M13-G02 M13-G01		
gas separation	J01-E03F	processes	M13-G01		
gas treatment	J01-E03F	Cation exchange resins - see ion exchange resins			
hydrogenation of unsaturated C-C bonds	N07-B01	Cationic detergents	D11-A02		
industrial effluent treatment	N07-L01B1	Cationic dyes for dyeing/printing fibres	F03-F22		
hydrolysis	N07-F06A	Cationites - see ion exchange resins			
membrane	N06-C03	Cats eyes	A12-R		
nitration	N07-D08C	Cattle repellents	B12-N06 B14-B13 C12-N06 C14-B13		
oxidation other than with air or oxygen (O2)	N07-C03	Caulking compositions	A12-R08 G04-B02		
oxidation with air	N07-C01	Ceilings	A12-R07		
oxidation with oxygen (O2)	N07-C01	Cell control agents for polymers	A08-S07		
processes general	J04-E01 N07+				
purification processes	N07-L01+				

plant	B04-F08	Cellulosic		Ceramic	
	C04-F08	fibrous suspension,		nitrides	L02-H02B2
protozoa	B04-F06	manufacture of articles		Ceramic coatings on	
	C04-F06	from	F05-A07	glass sheet	L01-G04C
recombinant (unspecified)	D05-H14	fillers	A08-R07	Ceramic composites	L02-J
Recombinant cell lines	D05-H14B	paints	A12-B01D	ceramic/ceramic	L02-J02C
recombinant microbial	D05-H14A		G02-A02A	ceramic/fibre-reinforced	
reptile	B04-F07C	polysaccharides	A03-A01+	metal	L02-J01D
	C04-F07C		B04-C02A	ceramic/glass	L02-J02A
sperm	B04-F03		C04-C02A	ceramic/metal	L02-J01
	C04-F03	polysaccharides, fibres,		ceramic/non-metal	L02-J02
stem	B04-F02B	textiles	A03-A01A	ceramic/plastic	L02-J02B
	C04-F02B				
Cell therapy	B14-S21+	Cement - (see also Adhesives)	L02	Ceramic contacts for	
	C14-S21+	accelerator	L02-C08	semiconductor devices	L04-C11A
		additive	L02-C08	Ceramic-metal seal	L02-J01C
Cells, polymer use in		alumina	L02-C07		
electrochemical/electrolytic	A12-E09	calcium sulphate	L02-C05	Ceramics	L02
fuel including		dental	A12-V02B	carbide	L02-H02A
accumulators, batteries	A12-E06+		D08-A02	casting	L02-A05
Cellulite treatment	D08-B15	gypsum	L02-C05	cleaning	L02-A10
Celluloid ®	A03-A03	magnesium	L02-C04	coating on metal	L02-J01E
		mixers	L02-D02	coating with metal	L02-J01A
Cellulose and derivatives	A03-A+	polymer coating on	A12-B08	coating with polymer	A12-B08
	B04-C02A	polymer use in	A12-R01A	colours	L02-G04
	C04-C02A	Portland	L02-C02	cutting	L02-A11
acetate	A03-A02+	Pozzuolanic	L02-C03	decorating	L02-A07
acetate butyrate	A03-A02+	production	L02-A01	drying	L02-A03
	A03-A03	refractory	L02-E05	extrusion	L02-A03
acetate fibres	A03-A02A	retarder	L02-C08	firing	L02-A04
	F01-D01	slag	L02-C03	flame (plasma) spraying	L02-A06
acetate fibres, dyeing/		special	L02-C06	foaming	L02-A02C
printing	F03-F04	testing	L02-A08	glazing	L02-A07
acetate propionate	A03-A02+	waste product	L02-C03	household use	L02-K01
	A03-A03	with Portland clinker	L02-C03	magnet	L03-B02B
butyrate	A03-A03	Cementation coating	M13-D	medical	L02-K02
detergent additive	D11-B10	Cemented carbide	L02-J01B	melting	L02-A05
diacetate fibre	A03-A02A			metal coatings, processes	M13-F03B
	F01-D01	Cementing		metallised	L02-J01A
ester fibres		compositions	L02-D12A	non-oxide	L02-A03A
ester fibres, dyeing/printing	F03-F04		H01-C02B	oxide	L02-H
ester fibres, production	F01-D01	of or with polymers	A11-C01+	polymer use in	A12-W12G
esters, excluding acetate	A03-A03	of petroleum wells	A12-W10C	production	L02-A
ethers	A03-A04+		H01-C02A	raw material preparation	L02-B
ethers use	A03-A04A+	Centralizer	H01-B03C5	raw material preparation	
	A12-S05N	Centrally active (CNS)	B14-J01	equipment	L02-A02
ethers preparation of	A03-A04B		C14-J01	shaping	L02-A03
fibres/fabrics dyeing/		Centrifugal		slip casting	L02-A03
printing	F03-F03	apparatus	J01-L	substrate for printed	
nitrate	A03-A03	casting of metal	M22-G03B	circuit	L03-H04E5
regenerated	A03-A05+	casting of plastics	A11-B04A	surface treatment	L02-A12
regenerated, fibres,		separation: particles from		testing	L02-A08
textiles	A03-A05A	gases	J01-G02	welding	L02-A11
	F01-D06	separation: petroleum			
triacetate	A03-A02+	processes	H02-D03	Cereal	B04-A07D2
triacetate, fibres	A03-A02A	spinning of fibres	F01-C07	extracts	B04-A09F
	F01-D01	Centrifugation in tests	B11-C08D3	preservation	C04-A07D2
xanthate	A03-A05+		C11-C08D3		C04-A09F
xanthate, fibres, textiles	A03-A05A	Centrifuges	J01-L01		D03-R
	F01-D06A	Centrifuging			B04-A10G
Cellulose production,		engine exhaust gases	H01-C04B		C04-A10G
for paper	F05-A02+	liquids	J01-F03		D03-A05
bleaching of pulp	F05-A02B	sludge from waste water	D04-B10A	Cerebral active	B12-C10
pretreatment	F05-A02A	sugars	D06-C		B14-J01
pulp, aftertreatment	F05-A02B	Cephalins	B04-B01B		C12-C10
pulping	F05-A02A		C04-B01B		C14-J01
recovery of pulping		Cephalosporins	B02-C	Cerebroprotective	B14-J01
chemicals	F05-A02C		C02-C		C14-J01
regenerating of pulp liquor	F05-A02C			Cerebrospinal fluid	B04-B04H
use of residues	F05-A02C				C04-B04H
waste water treatment	F05-A02C				
working up waste paper	F05-A02B				

Ceric ammonium nitrate polymerisation catalyst	A02-A03	Chelating agent in detergents to purify liquids	A08-A07 D11-B06 J01-D05	Chemoprotectant	B14-M02A C14-M02A
Cerium catalysts	N03-A02A	Chemical analysis of polymers	A09-B	Chemotherapy	B14-S25 C14-S25
Cerium compounds	B05-A03B C05-A03B E34-E02A E05-P	Chemical blowing agents for polymers		Chess games	A12-F01
inorganic		others	A08-B	Chewable formulation	B12-M11R C12-M11R
organic		releasing carbon dioxide	A08-B02	Chewing gum	A12-W09 B12-M11 D03-E+ D03-E09
Cerium oxide production	L02-G01C2 L02-G12D2	releasing nitrogen	A08-B03	Chewy candy chocolate	D03-E10B D03-E10B1
Cermets	L02-J01B	Chemical brightening of metal	M14-B	Chicken meat	D02-A03B
Cesium catalysts	N01-A	Chemical cleaning/degreasing of metal apparatus	M12-A04	Chill casting of metal using moulds or cores with high thermal conductivities	M22-G03C M22-G03C1
Cesium compounds	B05-A01B C05-A01B E33-H E05-A E05-A02	cleaning/pickling solutions or salts	M12-A01	Chinese herbal medicine	B04-A10 C04-A10
inorganic		disposal/regeneration inhibitors	M12-A03 M12-A02	Chipboard coating on polymer use in production of	F05-A07 A12-B09 A12-A04B A03-A+ A11-B09B
organic		processes	M12-A05	Chitin	B04-C02E3 B04-C02E3 C04-C02E3
Chafer fabric	F04-E01	Chemical disinfection other than of food or air	D09-A01+	Chitosan	A10-E09 B04-C02E3
Chain (carbon) expansion/contraction	B11-C01 C11-C01 N07-F05	Chemical engineering	A12-W11+ J+	Chlor-alkali cells	A12-E09 J03-B04
catalyzed process		(meth)acrylamide (co)polymer, use in PVC, use in	A04-D04A2 A04-E02E1	Chloramphenicol	B02-C01
chemical process		silicone polymer, use in	A06-A00E2	Chlorella	B04-F08 C04-F08
oligomer-/telomerisation		Chemical etching of metal chemical processes	M14-A02	Chlorinated polyethylene	A10-E04A
addition of CO(2)		etching media, liquid or gaseous	M14-A03	Chlorinated/ chlorination of polymers	A10-E04A
other chain extension		Chemical features in spinning of synthetic filaments	F01-D+	Chlorine catalysts	N04-D+
contraction		Chemical modification of drying oils	G02-B03	Chlorine or derivatives - see Halogen or derivatives	
Chain (polymer) couplers	A02-B	fats and oils	D10-B02	Chloro - see also Halo, Monochloro and Polychloro	
stoppers	A02-C	natural resin	G02-B01	Chloroalkylated/ chloroalkylation of polymers	A10-E03
transfer agents	A02-B	polymers - (see also Modification)	A10-E+	Chloromethyl styrene (co)polymers monomer	E10-H02G A04-C A01-D02
Chain making	M21-L	Chemical mowing	B12-P02	Chloromethylated/ chloromethylation of polymers	A10-E03
Chairs	A12-D1	Chemical plating of metal	M13-B	Chloroprene (co)polymer monomer	E10-H02J A04-B08 A01-C04
Chaperones/chaperonins	B04-N09 C04-N09	Chemical preservation of corpses	D09-A01 D09-A03	Chlorosulphonated polymers - see Halosulphonated polymers	
Charcoal	B05-C06 E31-N+	Chemical processes (general)	B11-C01 E11-K	Chlorotrifluoro- ethylene (co)polymers monomer	E10-H02B A04-E10D A01-D12
Charge carrier generators, electrophotographic		Chemical removers for paint and ink	G02-A03C	Chlortetracycline	B02-T
inorganic	G06-F07+	Chemical sensitisers, photographic	G06-H01	Chocolate	D03-E07
organic	G06-F06	Chemical treatment of : fabrics	F03-C+		
Charged particle counters	K08-A02	natural fibrous material	F01-B+		
Charge transfer process, electrophotographic	G06-G08D	polymer surfaces	A11-C04D		
Charge transport materials, electrophotographic		Chemical vapour deposition of ceramics	M13-E L02-A02B		
inorganic	G06-F07+	Chemical warfare agents, protection against	K02-A01		
methine type	E25-B E25-B01	Chemiluminescence	G04-A		
organic	G06-F06	Chemiluminescence tests	B11-C07B4		
Charged couple devices	L04-E05F	Chemiluminescent tracer bound to antibody or antigen	B11-C07A5		
Charging, electrophotographic	G06-G07				
Cheese	D03-B06 D03-B06				
additive	D03-B04 D03-B04				
moulding	D03-B03 D03-B03				
packing and transporting	D03-B05 D03-B05				
Cheese dyeing of fibres/ fabrics	F03-F29				
Chelate resins (see also Ion- exchange)	A12-M05				

Chocolate candy	D03-E10+	Chromosomal abnormality		Cladding of or with metal	M13-H01
chewy candy	D03-E10B1	disorder	B14-S20A	Clamps	A12-H12
hard candy	D03-E10A		C14-S20A	Clavulinic acid and derivatives	B02-C01 B06-E03
Cholagogue active	B12-G02	Chrysanthemum acid		Clay	
Cholecystokinin (CCK-PZ)	B04-J13 C04-J13	(or derivatives)	B04-A07C	expanded, preparation of	L02-B05
Cholecystopathy treatment	B12-G02	Chrysene	B08-C01 E08-C01	detergent use	D11-B11 D11-B11A
Cholera treatment	B12-A01	Chymotrypsin	B04-B02C3 B04-L05C C04-L05C	heavy, products	L02-G02
Choleretic	B12-G02			non-expanded, preparation of	L02-B06
Cholestane	B01-D02	Cicatrizant	B12-A07	Clay bound to enzyme	D05-A01A5
Cholesteric/ cholesterylic (liquid crystal property of polymer)	A09-A02A	Cigarettes		Clay fillers	A08-R06B G01-A10
Cholesterol	B01-D02 B01-D02 C01-D02 B12-H03	filters for	A12-H04 D07-D F04-E05 A12-W	Cleaning apparatus for semiconductor devices	L04-C09C
reduction of blood levels	B12-H03	tobacco substitutes in	A12-W	Cleaning compositions (see also Detergents)	A12-W12+ G04-B08
Cholinergic	B12-E05 B14-J02A1 C14-J02A1	Cinchona alkaloid	B04-A02	for semiconductor manufacture	L04-C09A
Chondroitin	B04-C02E2 B04-C02E2 C04-C02E2	Cine sound tracks	G06-D	Cleaning electrophotographic materials	G06-G08E
Chopped meat	D02-A03B	Cinerin	B04-A07C	Cleaning heat exchangers	J08-E+ J08-E01 J08-E03 J08-E02
Chopping up waste for fermentation	D05-A04B	Cinnamic acid	E10-C04C A04-C A01-D02	Cleaning metals	M12-A+ M12-A04 M11-H01 M12-A+
Chorionic gonadotropin	B04-B02D4	(co)polymers		apparatus for	
Chromate coating of metal	M14-D03	monomer	A01-D02	electrolytic	
Chromatography		Cinnoline	B06-D06 E06-D06	with solution or molten salt	
GC-MS	J04-B01C5A	Circuit components (electrical), polymer use		Cleaning of polymer handling/ processing plant	A11-C
LC-MS	J04-B01C6	Circuitry, basic electronic	L03-H02	Cleaning of semiconductor devices	L04-C09B
in gas phase	J01-E03A	Circuits		Cleaning of semiconductor apparatus	L04-D11
in liquid phase	J01-D01A J04-B01C2	(electro)photographic		Cleaning of teeth or mouth	D08-B08
polymer application	A12-L04A	production of	G06-D06A A12-E07C A12-E07A L03-H04E+	Cleaning polymerisation apparatus	A10-G
thin layer	J04-B01C1	integrated		Cleaning printing plates	G05-F
Chromatography tests	B11-C08D2 J04-B01C	printed		Cleaning solutions/salt mixtures for metals	M12-A01 M12-A03 M12-A02
Chromising		printed, ceramic substrate		disposal/regeneration	
using gas	M13-D03B	for	L03-H04E5	inhibitors	
using solid	M13-D01B	printed, electroplating of	L03-H04E3	Cloches	A12-W04A
Chromium		printed, plastics substrate		Clocks	A12-W
alloys	M26-B13	for	L03-H04E1	Closures for containers	A12-P03 B11-C06A A12-P03
electrodeposition	M11-A01	printed, reprographic		packages	
Chromium catalysts	N03-D N03-D N03-D01 A02-A06+	methods of	L03-H04E2	Cloth, polymer coatings on	A12-B02+
for polymerisation	A02-A06+	printed, thick film	L03-H04E4	Clothes making	F04-F01
Chromium compounds	B05-A03B E35-P E05-L03 E05-L03A E05-L03A G01-A07 G01-A07	Circulatory active general and other	B14-F02 C14-F02	Clothing	A12-C+ F04-C+ D11-D07C1 D11-D07C2 A12-C03 F04-C04 A12-C01 A12-C04 F04-C05 D09-C04D K07-A
inorganic	E05-L03	Circulatory diseases		colour care	
organic	E05-L03A E05-L03A G01-A07 G01-A07	diagnosis	B12-K04A2 B12-K04G2B C12-K04A2 C12-K04G2B B12-E01	fabric softener/ detergent	
pigment/filler	G01-A07	treatment	B12-E01	fasteners	
pigments or fillers	G01-A07	Cirrhosis treatment	B12-E08 B12-G08	foam backed	
Chromium oxide polymerisation catalyst	A02-A06A	Cisterns	A12-R02	footwear	
Chromium production	M25-G10	Citrates plasticisers/extenders	A08-P06	protective	
Chromogenic compounds for heat sensitive systems	G06-F08A	Citric acid	B10-C02 E10-C02A	protective, against radiation	
Chromophorotropic hormone	B04-B02D4	Civil engineering	A12-R+ A04-G02E4 A04-E02E1 A12-R09 A05-D02E1		
		polyethylene, use in			
		PVC, use in			
		road compositions			
		unsaturated polyester, use in			
		CJD treatment	B14-N16B C14-N16B		



safety	A12-C02	Coating compositions - see	Coating of metal with :
sports	A12-F01	also Paints	ceramic L02-J01D
Clotting factors	B04-B04D3	as primers G02-A05E	chromate layer M14-D03
Cloud point depressants (fuels)	H06-D05	containing polymer (general) A12-B+	non-metallic layer (by
Cloxacillin	B02-P03	containing polymer (general), solvent based A12-B01B	surface reaction - general) M14-D+
Clubs (sports equipment)	A12-F01B	containing polymer (general), water-based (emulsion) A12-B01A	non-metallic layer (electrically) M11-F
Clusters	F01-E09A	corrosion resistant for metals G02-A05E	oxide layer M14-D01
Clutch material	A12-H10	fireproof A12-B08	phosphate layer M14-D02
CMC	A03-A04+	for concrete G02-A05D	plastics A12-B04+
use - food, medical, cosmetic	A03-A04A1	for electrical material other than wires G02-A05B	plastics, non-electrically M13-H05
CNS		for magnetic material for masonry G02-A05B	refractory coating (non-electrically) M13-H04
disorder diagnosis	B12-K04A5	for paper G02-A05F	Coating optical glass components L01-G04D
sedatives	B12-C05	for road paints G02-A05C	fibres L01-F03A1
CNS active	B12-C08	for traffic sign paints G02-A05F	Coating polymer surface with metals (by metallisation) A11-C04B1
depressants general	B12-C05	for walls G02-A05F	non-metals A11-C04B2
	B14-J01B	for wires G02-A05A	polymers A11-B05+
	C12-C05	non-stick G02-A05D	Coating processes, photographic G06-E04
	C14-J01B	release coatings G02-A05D	Coating processes, with polymer: A11-B05+
general	B14-J01	Coating concrete L02-D14+	by dipping A11-B05A
	C14-J01	Coating fabrics F03-E01	by extrusion A11-B05B2
stimulants general	B12-C06	Coating from a liquid metal bath M13-A	by flocking A11-B05B
	B14-J01A	Coating from a solution or suspension of metal compound M13-B	by spraying A11-B05B1
	C12-C06	Coating glass L01-G04+	by spinning A11-B05B3
	C14-J01A	bottles L01-G04A	involving electrodeposition A11-B05A
Co-ordination complex catalysts not CO, not pi	N05-C	sheet with inorganic materials L01-G04C	involving fluidised beds with condensants (followed by polymerisation) A11-B05C
Coagulants	B12-H04	sheet with metallic materials L01-G04C1	with dispersions A11-B05D
	B14-F08	sheet with organic materials L01-G04B	with foams A11-B05E
	C12-H04	tableware L01-G04E	with melts A11-B05E
	C14-F08	Coating of metal (processes) by :	with monomers (followed by polymerisation) A11-B05C
Coagulants for :		cladding M13-H01	with pastes A11-B05D
blood	B12-H04	diffusion using gases M13-D03	with powders A11-B05E
pollution control	A12-W11E	diffusion using liquids M13-D02	with solutions A11-B05D
sewage	D04-A01B	diffusion using solids M13-D01	Coating with crosslinking A11-C02C
	D04-B09	electrophoresis (general) M11-G	Coating with metal by :
Coagulants, polymer use		electrostatic method M13-H06	cladding M13-H01
acrylic	A12-M01	gas decomposition/reduction M13-E+	diffusion M13-D+
others	A12-M02	gas decomposition/reduction to form inorganic coating M13-E02	electrostatic method M13-H06
Coagulation of liquids	J01-D03	gas decomposition/reduction to form metallic coating M13-E01	non-electrolytic method (general) M13-H+
Coagulative spinning	F01-C04	inorganic coating M13-E02	non-electrolytic method - control and testing M13-L
Coal additives	H09-H03	gas decomposition/reduction to form metallic coating M13-E01	sintering M13-H02
Coal dust		non-electrolytic method (general) M13-H+	spraying M13-C
coatings on	A12-B09	control and testing M13-L	using adhesive M13-H03
laying compositions	G04-B	sintering M13-H02	
Coal hydrogenation, liquefaction	H09-A01+	spraying M13-C	
Coal removal from water	D04-B03	to form organic coating M13-E03	
Coal slurries		using adhesives M13-H03	
coal slurries	A12-T03A	vapour deposition M13-F	
	H09-G+	Coating of metal by: post-treatment M13-D04	
Coal tar plasticisers	A08-P08		
Coal, briquettes and briquetting	H09-F		
Coated foods	D03-H01S		
Coating aids, photographic	G06-H18		
Coating ceramic on metal	L02-J01D		
with metal	L02-J01A		

general addition polymer based	A12-B01W	Cod liver oil	B04-B01C2 C04-B01C2	non-ferrous metal or alloys	M29-B M27-B04
general condensation polymer based	A12-B01X	Codeine	B04-A04 C04-A04	steel alloys	
non-stick release	G02-A05D G02-A05D	Coenzyme inhibitors	B14-D04 C14-D04	Colistin	B02-C C02-C
Coatings and impregnations (polymer use)	A12-B+	FAD	B14-D04 C14-D04	Colitis treatment	B12-E08 B12-G02 B14-E10C
Coatings of polymers	A12-B+	NAD	B14-D04 C14-D04		C12-E08 C12-G02 C14-E10C
Coatings, friction and oil-free lubricants post treatment wear resistant	M13-K M13-G05 M13-M02	NADH	B14-D04 C14-D04	Collagen	A03-C01 B04-B04A6 B04-N02 C04-B04A6 C04-N02
Coatings, sprayable refractory	L02-E05	Coenzymes	B04-B02C1 B04-L02 C04-B02C1 C04-L02		
Coatings, use of following polymers in (meth)acrylamide (co)polymer	A04-D04A1	by fermentation	D05-C03A	Collagenase	B04-B02C3 B04-L05C C04-B02C3 C04-L05C
(meth)acrylate (co)polymer	A04-F06E7	Coextrusion laminating of films	A11-B07+ A11-B07A A12-S06C+		
(meth)acrylic acid (co)polymer	A04-F04B	Coffee bags	D03-D01 D03-D01A	Collapsible containers	A12-P06C
(meth)acrylic anhydride (co)polymer	A04-F04B	bean treatment	D03-D01 D03-J02	Colloid	B12-M07 C12-M07 J04-A03
epoxy resins	A05-A01E4	substitutes	D03-D03A	chemistry protective (polymer additive)	A08-S06 B12-M11V C12-M11V
phenol-formaldehyde resin	A05-C03A	Coffins	A12-W	pharmaceutical form	
phenolic resins	A05-C01B1	Cognitive enhancer	B14-J01A4 C14-J01A4	transfer material for photosensitive systems	G06-C11
polyethylene	A04-G02E1	Coils electrical	A12-E08B L03-B02F	Colloxylin	A03-A03
polyurethane	A05-G01E1	magnetic of fibres	A12-E08B F01-H03D	Colon disease treatment	B14-E10C C14-E10C
PVA	A10-E09B1	Coining (powder metallurgy)	M22-H03E	Colony stimulating factors G-CFS	B04-H04A C04-H04A
PVC	A04-E02E2	Coke (petroleum)	H08-E02	general and other	B04-H04 C04-H04
saturated polyesters	A05-E01D1	Coke ovens	H09-A02 M24-A01B	GM-CFS	B04-H04C C04-H04C
silicone resins	A06-A00E1	Coke, coking (coal)	H09-A	M-CSF	B04-H04B C04-H04B
Coats (apparel) of fabric	A12-C F04-C03	Coking process (petroleum feedstock)	H04-B01	MEG-CSF	B04-H04D C04-H04D
Cobalamin and derivatives	B15-B12 C15-B12	Cold (common) treatment adrenergic	B12-E07 C12-E07	Colophony	A03-C02
Cobalt based alloys magnetic	M26-B08 L03-B02A4	analgesic	B12-D01 C12-D01	Colorant for food (natural) for food (synthetic)	D03-H01E1 D03-H01E2
Cobalt catalysts element oxide	N02-B N02-B01 N02-B01	antifebrile	B12-D08 C12-D08	Colorimetric tests	B11-C07B1 C11-C07B1
Cobalt compounds inorganic inorganic pigment organic	B05-A03B C05-A03B E35-V G01-A13 E05-L02 E05-L02B	antiviral	B12-A06 C12-A06	Colour additive system for photography	G06-C13
Cobalt electrodeposition	M11-A02	bronchodilator	B12-K02 C12-K02	Colour bleaching (photographic)	G06-G11
Cobalt naphthenate accelerator for ethylenically unsaturated polymers for other polymers	A08-C03 A08-D05	expectorant	B12-K05 C12-K05	Colour care	D11-D07C1
Cobalt production	M25-G11	unspecified mode of action	B14-A02B3 C14-A02B3	Colour coupler photographic photosensitive system containing	E26 G06-H08
Cocaine	B04-A01 C04-A01	Cold exchangers	J07-D03	Cold forming of polymers	G06-C01
Cocciidiostat	B12-B05 B14-A03C C12-B05 C14-A03C	Cold forming of polymers	A11-B08	Cold sore	B14-A02A3 C14-A02A3
Cocoa	D03-E	Cold working of cast iron alloys ferrous metal iron alloys	M27-B03 M24-D01B M27-B	Colour formers for heat sensitive systems	G06-F08A
Cocondensation	A10-D+				
Cocoon handling to obtain silk, mechanical	F01-A01				

Colour materials for photosensitive system		Complex catalyst		heavy	L02-D02
containing coupler	G06-C01	carbon monoxide		light	L02-D03
dye destruction	G06-C03	containing	N05-B	polymers in	A12-R01A
electrophotographic	G06-C04	carbonyl containing	N05-B	prefabricated	L02-D04
Kodachrome® type	G06-C02	other co-ordination	N05-C	prestressed and reinforced	L02-D05
Colour proofing (printing)	G05-C	pi-bonded	N05-B	production equipment	L02-D02
Colour receptiveness of polymers		Ziegler(-Natta) catalysts	A02-A06+	resin	L02-D07B
additives to improve inherent property	A08-M01A A09-A06	Complex quaternary and ternary AIII-BV compounds	L04-A02D	testing	L02-D08
Colour tracer bound to antibody or antigen	B11-C07A2 C11-C07A2	Complexing agents		Concrete additives	L02-D14
Colour, photographic development	G06-G10	adding to water	D04-A03	antifoaming	L02-D14S
fixing	G06-G12	additive for polymers	A08-A07	fabric for reinforcing	F03-D04
stabilisation	G06-G13	in detergents	D11-B06	frost resistance	L02-D14C
Coloured layers on metals (chemically)	M14-C	to purify liquids	J01-D05	plasticising and fluidising	L02-D14E
Colouring glass surfaces	L01-G05	Complexing with organic reagents, non-ferrous metal extraction	M25-B04	polymeric	A12-R01A L02-D14F
Colouring of polymers	A11-A01	Composite inorganic pigment	G01-C	set accelerators/ retarders	L02-D14A
Colouring oxides for glass compositions	L01-A03B	Composite materials (powder metallurgy)	M22-H03F	strengthening	L02-D14B
Colouring, processes	A11-A01B	Composite rolls for rolling mills, manufacture of	M21-A02A	water permeability retarding	L02-D14Q
Colouring, using specific compositions	A11-A01A	Composite-reinforced materials containing fibres	F03-D+	water reducing	L02-D14D
Colours, ceramic	L02-G04	Compost	B04-A07D B04-A09 C04-A07D C04-A09	Concrete manufacture	
Columbium - see Niobium		Compounding polymers	A11-A03+	decorative coating	L02-D14P
Coma treatment	B12-D10 B14-J01A2 C12-D10 C14-J01A2	Compression moulding	A11-B11	polymeric coating	A12-B08 L02-D14M
Combing, yarn processes	F01-F01	Compression type refrigeration	J07-A01	Condensant (for polymer)	A01-E+
Combinatorial process	B11-C01A C11-C01A E11-K01	Computational genomics	B11-C08F1 C11-C08F1 B11-C11C1 C11-C11C1	Condensant, polymerising coating process with	A11-B05C
library synthesis	B11-C01A1 C11-C01A1	Computational proteomics	B11-C08F3 C11-C08F3 B11-C11C2 C11-C11C2	Condensation of vapour	J01-A03
Liquid phase synthesis	B11-C01A2 C11-C01A2	Computer ribbons, fabric	F02-E02	Condensation polymerisation	A10-D+
Solid phase synthesis	B11-C01A3 C11-C01A3	Computerisation in polymer processing	A09-D+	Condensation polymers only blends/mixtures	A07-A03+
Parallel synthesis	B11-C01A4 C11-C01A4	Computers (use of electro (in)organic material)	L03-H03A	Condensation polymers stabilisers	A08-A01B
High volume synthesis	B11-C01A5 C11-C01A5	Computing methods	B11-C11 C11-C11	Condensation resin coatings on metal	A12-B04C
Combinatorial apparatus	B11-C01B C11-C01B E11-K02	Concentration of ferrous ores	M24-A01	Condensers for vapour or steam	J08-A
Comminuting waste for fermentation	D05-A04B	food	D03-K09	Condensers, electrical	A12-E07B L03-B03
Comminution of polymers	A11-A04	non-ferrous ores	M25-A01	Conditioners for fabrics	D11-B15 F03-C05
Communications (use of electro(in)organic material)	L03-H03	non-ferrous ores, dry methods	M25-A01A	Conditioning fibres, yarns with heat	F01-H05
Commutators	L03-B04C	non-ferrous ores, wet methods	M25-A01B	Conditioning polymer	A11-B02+
Compact discs	A12-L03C	polymers	A10-G01+	Condoms	A12-V03B B12-K03 C12-K03 C14-P01A
Complement factor	B04-H01	Concrete	L02-D	male	
Complement inhibitor	B12-D02C B14-G02 C12-D02C C14-G02	autoclaves	L02-D04	Conductive (electrical), additives for polymers	A08-M09A
		binders (special)	L02-D07	Conductive alloy compositions	L03-A01A5
		coating compositions for coatings	G02-A05F	Conductive coatings on windows	L01-H02
		coatings, polymeric	L02-D14	Conductive films for LCD	L03-G05B9
		decorating	A12-B08	Conductive layers manufacture in semiconductor manufacture	L04-C10
		fillers (special)	L02-A07	Conductive nanomaterials	L03-A02G
		glazing	L02-D06	Conductive pastes, inks printed circuits	L03-A01A3 L03-H04E4
		gypsum products	L02-A07 L02-D07A	Conductive polymer (electrical)	A09-A03 L03-A02D
				Conductivity monitoring	J04-C02B

Conductors, electrical	L03-A	Containers		Cooking food	D03-K01
metallic	L03-A01	foam use in	A12-S04C	fryer	D03-K01B
metallic, insulated	L03-A01B	for bakery or dough		grill	D03-K01C
metallic, non-insulated	L03-A01A	product	D01-A04	microwave	D03-K01A
non-metallic	L03-A02	for food	D03-K08	Cooking utensils	A12-D03
non-metallic, non-insulated	L03-A02A	for pharmaceutical and agricultural compositions	B11-C06 C11-C06	Coolants	A12-W11G G04-B01
Confectionery	D03-E	general, polymer use in	A12-P01B	Coolants for nuclear reactors	K05-B03
coating	D03-E02	glass, filling of	L01-J03	liquid metal	K05-B03A
cooking and mixing ingredients	D03-E05	polymer use in	A12-P+	Coolers, trickle	J08-B01
dispensers	D03-E06	Continuous casting	M22-G03A	Cooling	
packing	D03-E04	cooling	M22-G03A3	apparatus	J07-C
shaping	D03-E03	moulds	M22-G03A1	apparatus, iron and steel production	M24-A05B
transporting	D03-E01	withdrawal equipment	M22-G03A2	furnace charge	J09-B03
Conferring herbicide resistance to plants	C14-U03	Contraceptives	B12-K03 B14-P01	hot blast	M24-A05E1
Conferring pest resistance to plants	C14-U04		C12-K03 C14-P01	in polymer processing	A11-A02C
Conferring stress tolerance to plants	C14-U05	condoms, IUD, sheaths etc.	A12-V03B	spun fibres	F01-C
Conifers	B04-A08C1 C04-A08C1	creams, pills etc.	A12-V01	towers	A12-W11G
Conjugate fibres	A12-S05B F01-E01+ F01-E01A	female	B14-P01B C14-P01B	Coordination catalysts for polymerisation	A02-A06+
crimped		male	B14-P01A C14-P01A	Cop dyeing	F03-F29
Conjugated aliphatic diolefinic monomers		Control devices for polymer processing equipment	A09-D+ J08-B08	Cop handling in winding of fibres	F01-H03C
substituted	A01-C04	gas or liquid storage	F02-F01B1	Copals	A03-C02
unsubstituted	A01-C05	sewing machines	F02-F01B1	Copolymerisation	A10-B+ A10-C+ A10-C02
Connectors, (for pipes)	A12-H02C	Control gear engineering nuclear applications	K09-L	block	A10-C02
Conserve	D03-H01V	Control of neutron flux in reactors	K05-B06A	general	A10-B01
Conserving foodstuffs with sugar	D03-H02D	Control of nuclear reactors	K05-B06	graft	A10-C03+
Consolidation of incompetent formation	H01-C09	Control rods (nuclear reactor)	K05-B06A	ordered	A10-C+
Consolidation, earth	A12-A02	Control, heat treatment (ferrous)	M24-D07	Copper	
Constipation treatment	B12-J07 B14-E09 C12-J07 C14-E09	Controlled fusion reactors	K05-A03	alloy conductive tracks	L04-C10D
Construction industry	A12-R+	Controlled release	B12-M10 C12-M10 A12-W15	on semiconductors	L04-C10D
Construction material, polymer		Controlling insects	D09-B06	alloys	M26-B03
foam use in	A12-S04B	Conventional weaving	F02-A04A	electrodeposition	M11-A03
Contact adhesives	A12-A+ G03-B+	Conversion coating of metal	M14-D	removal from waste water	D04-B05 D04-B05B
Contact breakers	L03-B04B	chromating	M14-D03	Copper catalysts	N02-D
Contact igniters, chemical	K04-B02	oxide coating	M14-D01	element	N02-D01
Contact lens cleaners	D11-C01 D11-D01C	phosphating	M14-D02	oxide	N02-D01
Contact lenses	A12-V02A D09-C01A	Conversion of chemical element	K08-B	sulphide	N02-D01
Contacts, electrical	L03-A01	Conversion of polymer into small particles	A11-A04	Copper compounds	B05-A03A3 C05-A03A3
alloy		Conversion screens for X-ray material	G06-A09	inorganic	E35-A
alloy, other	L03-A01A2	Converter processing of fibres	F01-G03	inorganic pigment	G01-A13
alloy, silver	L03-A01A1	Converter, steel processing	M24-B02C	organic	E05-L03 E05-L03B
for semiconductors	L04-C11	Conveying of polymer articles	A11-C06	Copper compounds as antiseptic, fungicidal or animal repellent in polymers	A08-M02
sliding	L03-A01A4	Conveyor belts	A12-H01 F04-E07	Copper production	M25-G08
		Convulsants	B12-D10 B14-J06 C12-D10 C14-J06	Cops for fibres	F01-H03A
		Cookies	D01-B02C	Copying material	
				non-radiation sensitive	G05-E
				pressure sensitive	A12-D05A G05-D
				Cords	F04-A
				in packaging	A12-P07
				in tyres	A12-T01C F04-E01
				Cords, tyre	A08-R+ F04-E01
				polymeric	A12-T01C
				Core binding	A12-A02

Core boxes for patterns	M22-C02	Corticosteroid receptors	B04-K01L3 C04-K01L3	Couplers, photographic	G06-H08+
Core compositions	M22-A01			keto-methylene based	G06-H08C
Core making	M22-E	Corticosteroidal	B14-D01 C14-D01	naphtholic based	G06-H08A
Core material, refractory	L02-E06			phenolic based	G06-H08A
Core moulds	A12-A02	Corticotropic hormones	B04-B02D4 B04-J05 C04-B02D4 C04-J05	pyrazolone based	G06-H08B
Core production and design	M22-D			pyrazolotriazole based	G06-H08D
Core, sheath manufacture				Coupling agents	
for optical glass fibres	L01-F03F1	Corticotropin-releasing hormone	B04-J06 C04-J06	for polymer additives	A08-M01+
Core-sheath fibres	A12-S05B F01-E01+ F01-E			for polymer chains	A02-B
yarns		Cortisols	B01-C02 C01-C02	Couplings, pipe	A12-H02C
Cores, chill casting	M22-G03C1	Cortisones	B01-C01 C01-C01	Courts, sports	A12-F01A
Cores, foundry	A12-A02			Covering power increasing agents (photographic)	G06-H04
Cores, magnetic	L03-B06	Cosmetics	A12-V04+ B12-L02 B14-R01 C12-L02 C14-R01 D08-B	Crackers (bakery products)	D01-B02C
Cores, other than for foundry casting	M22-G03G3			Cracking catalysts	H04-F02B
Coring (oil and gas wells)	H01-B05B	Cosmetics, polymers used in (meth)acrylate (co)polymer	A04-F06E5	Cracking process products, monomeric	A01-B04
Coring fruit	D03-J06	cellulose ether	A03-A04A1	Cracking processes	A10-E05+ B11-C01 C11-C01 E11-G02 H04-B
Corona discharging polymer surfaces	A11-C04E	polyamides	A05-F01E3	Cramp treatment	B12-E02 B14-J05A C12-E02 C14-J05A
Coronary dilators	B12-F02 B14-F01E C12-F02 C14-F01E	polyethylene	A04-G02E3	Crash pads in vehicles	A12-T04B
		polypropylene	A04-G03E1	Crates	A12-P06B
Coronary thrombosis treatment	B12-H02 B14-F04 C12-H02 C14-F04	PVA	A10-E09B2	Crayons	A12-D05B G02-A04+
		silicones	A06-A00E3	Cream	D03-B13 D03-B13
Corpse preservation chemical	D09-A01 D09-A03 D09-A02	Cosmic radiation utilisation	K08-C	artificial (synthetic)	D03-B
physical		Cosmids	B04-E08 C04-E08	Cream (milk)	D03-B
Corrin dyes (general)	E23	Cosmonautics	A12-T03+	Creams (formulation)	B12-M02 C12-M02 D08-B09
Corrosion control and testing	M14-J	Cot death	B14-S10	Crease proofing of fabrics non-resinous	A12-S05R F03-C04 A12-G02 F03-C04
Corrosion control in petroleum refineries	H05-X	Cotton	A03-A05A	resinous	A12-D
Corrosion inhibitors	M14-F	Cotton dyeing/printing solvent dyeing	F03-F03 F03-F13A	Credit cards with magnetic recording strips	L03-B05H
as lubricant additives	H07-G02	Cotton fibre filler for polymer	A08-R07	Crepe fabrics	F02-G02
coatings	G02-A05E	Cotton seed oil	B04-B01C1 C04-B01C1	Cresol-formaldehyde resins	A05-C03+
fuel additives	H06-D02	Cough treatment	B12-K01 B14-K01B C12-K01 C14-K01B	Cresols	E10-E02B E10-E02B1 E10-E02E E10-E02E1 A01-E13
inorganic	M14-F02			condensants	
organic	M14-F01	Coulometers	L03-G03	Creutzfeld-Jakob disease treatment	B14-N16B C14-N16B
Corrosion prevention in heat exchangers	J08-D02	Coumarin photographic brighteners	G06-H09C	Cricket balls, bats pitches	A12-F01B A12-F01A
in metallurgy	M14-K	Coumarone (co)polymers monomer	E06-A01 A04-C A01-D02	Crimped fibres	A12-S05C F01-E04 F01-E01A
in water systems	D04-A03	Coumarone-indene resins	A04-C	conjugated	F01-E01A
with polymers	A12-W11J	Counter for neutrons for neutrons for charged particles for gamma and cosmic rays for X-rays	K08-A01 K08-A02 K08-A02 K08-A03 K08-A04	Crimping of fibres	A11-B02D F01-H04+ F01-H04C2
Corrosion resistant coatings for metals	G02-A05E M14-K			jet	
Corrugated cardboard (structure)	F05-A06A				
Corrugating cardboard paper polymers sheet metal	F05-A04D F05-A04D A11-B08+ M21-E01				
Corticoidal	B12-G04 B14-D01 C12-G04 C14-D01				

CRISPR	B04-E13 C04-E13 D05-H19C	Crystallisation, water treatment by	D04-A01C	recovery	A11-C03A
Crockery	A12-D03	Crystals, liquid	A12-L03B G04-B	polymers, into granules	A11-A04
Cross rolling of metal	M21-H	Crystals, single	J04-A04	polymers, recesses, grooves	A11-A05B
Crosslinking		semiconductors	L04-B	polymers, tubes and tyres	A11-A05A
accelerators	A08-C03 A08-D+	Culture apparatus (micro-biological)	D05-H02	rocks	L02-A
activators	A08-C02 A08-D+	Culture, cell or tissue	D05-H08	sliver to staple	F01-F
agents		Culture, media	D05-H01	threads in sewing	F02-F01B2
agents for addition or ethylenically		agricultural	A12-W04B C12-N08	Cutting oils, emulsions	H08-D04
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agents for other polymers	A08-D+	Culture, media		ceramic oxide	L02-G08
agents with epoxy resin	A05-A01B1	agricultural	C14-T01	cermet	L02-J01B
anti-scorch agents	A08-C06 A08-D+	Culturing bacteria	A12-W11L B11-A	Cutting, electric	M23-D
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retarders	A08-C06 A08-D+		D05-A	electron beam	M23-D04
rubber vulcanisation	A11-C02A		D05-H	electroslag welding	M23-D07
with coating and/or extrusion	A11-C02C	Cumyl peroxide		induction heating	M23-D03
with irradiation	A11-C02B	crosslinker for addition and ethylenically		laser beam	M23-D05
with moulding and/or foaming	A11-C02D	unsaturated polymers	A08-C05	plasma arc	M23-D01
Crotonates		crosslinker for other polymers	A08-D	resistance welding	M23-D02
(co)polymers	A04-F07	polymerisation catalyst	A02-A01	spark erosion	M23-D06
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Crotonic acid	E10-C04	Cuprammonium rayon	A03-A05+ F01-D06B	Cyanamides, inorganic	B05-C03 C05-C03 E32-B
(co)polymers	A04-F05			Cyanates inorganic	E32-B
monomer	A01-D08			removal from water	D04-B07A
Crowns, dental	A12-V02B D08-A03	Cupric, cuprous - see Copper		Cyanates organic	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B
Crucible steel processing	M24-B02A	Cups	A12-D03	Cyanides inorganic	removal from water D04-B07A
Crucibles for glass manufacture	L01-C05	Curds and whey separation	D03-B02	Cyanides, inorganic	B05-C03 C05-C03 E32-B
Crude oil		Curds production in milk	D03-B01	Cyanides, organic	B10-A15 C10-A15 E10-A15
drilling for exploration	H01-B	Cure retarders for polymers	A08-C06 A08-D+	Cyanine spectral sensitisers	
for production techniques	H01-A	Curing agents - see Crosslinking		photographic	G06-H07A
rotary drilling	H01-D	Curing of concrete articles	L02-D04	Cyanoacrolein	E10-A15
slim hole drilling	H01-B03	Curing of polymers	A11-C02+	Cyanoacrylamide	E10-A15
testing	H01-B02	Curium compounds	B05-A04 C05-A04	Cyanoacrylates	E10-A15
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Crushing	J02-B	organic	E05-Q	monomer	A01-D04 A01-D10
accessories	J02-B03	Curling of fibres and yarns	F01-H04+	Cyanoacrylic acid	E10-A15
plant	J02-B01	Curtain rails	A12-R02A	(co)polymers	A04-D
process	J02-B02	Curtains	A12-D01 F04-D03	monomer	A01-D04 A01-D08
Crustaceans	B04-P01C C04-P01C	Cutlery	A12-D03	Cyanoacrylonitrile	E10-A15
Crustacicide	B14-B04 C14-B04	Cutting		(co)polymers	A04-D
Crystal forms	B12-M11H2 C12-M11H2	bakery products after cooking	D01-A06	monomer	A01-D04
Crystallisable glass		ceramics	L02-A	Cyanogen	B05-C03 C05-C03 E32-B
applications	L01-K03	fabrics	F03-K03		
composition	L01-A08	fabrics for clothing	F04-F01	Cyanurate, triallyl	E07-D13
manufacture	L01-K02	food	D03-K05	(co)polymers	A04-A03
Crystallisation	A11-B02+	glass		monomer	A01-B03
	B11-B	glass fibre, optical	L01-F03H	Cyanuric acid	E07-D13
	C11-B	glass, flat	L01-G07		
	E11-Q	glass, non-flat	L01-G08		
	J01-B	plastics	A11-A05+		
		polymers	A11-A05+		
		polymers, films, fabrics	A11-A05C		
		polymers, for scrap			

Cyclic ethers	
(co)polymers	A05-H+
condensants excluding epoxides	A01-E08
epoxides condensants	A01-E07
Cyclic peptides	B04-C01H C04-C01H
Cyclic siloxanes condensants/ monomers	A01-A03
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(co)polymers	A05-J05
condensants	A01-E08
Cyclisation (process)	B11-C01 C11-C01
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chemical process	E11-A01
reaction apparatus	E11-A01
of polymer	A10-E14
Cyclised polymer	A10-E14
Cycloaliphatic - see also Alicyclic	
Cycloaliphatic dicarboxylic acid(s) production	E10-C02C1A
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Cycloaliphatic hydrocarbons diolefinic	E10-J02A E10-J02A1 E10-J02A2
(co)polymers	A04-B
monomer	A01-C05
Cycloaliphatic hydrocarbons monoolefinic	E10-J02A E10-J02A1 E10-J02A2
(co)polymers	A04-G
monomer	A01-D13
Cycloaliphatic polyepoxides	A05-A05
Cycloalkane	B10-J02 C10-J02 E10-J02A E10-J02A1 E10-J02A2
Cycloalkene	B10-J02 C10-J02 E10-J02A E10-J02A1 E10-J02A2
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Cycloalkyne	B10-J01 C10-J01 E10-J01
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monomer	A01-B02
production	E10-J01A
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Cyclodextrin	A03-A B04-C02B1 C04-C02B1 D06-H02
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Cyclohexanone peroxide crosslinker for other polymers	A08-D
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Cycloheximide	B02-C01 C02-C01
1,4-Cyclohexyl dimethanol condensant	E10-E04J1 A01-E14
Cyclohexyl methacrylate (co)polymers	E10-G02 A04-F06+
monomer	A01-D10B
Cyclone	J01-L02
Cyclopentadiene	E10-J02A E10-J02A1 E10-J02A2
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monomer	A01-C05
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Cystic fibrosis	B14-K01
Cystitis	B14-N07B C14-N07B
Cytidine	B04-B03A C04-B03A
Cytidylic acid	B04-B03B C04-B03B
Cytochrome P450	B04-L03C C04-L03C
Cytoprotective	C14-H01B
Cytosine	B04-B03A C04-B03A
Cytostatic	B14-H01B C14-H01B
Cytoskeletal protein	B04-N06 C04-N06

**D**

Dacron	A05-E04+ F01-D04A
Dactinomycin (actinomycin)	B02-A C02-A
Dammar	A03-C02
Dandruff treatment	B14-N17E C14-N17E
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Daunomycin	B02-D C02-D
Deactivators for polymerisation catalysts, controllers	A02-C
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Decalcomanias (decals)	A12-W07F1 F03-F27 G05-F01 L02-A07
Decanedioic acid	E10-C02D E10-C02D2
condensant	A01-E12
Decarboxylase agonist	B14-L01A4 C14-L01A4
Decarboxylase inhibitor	B14-D08 C14-D08
Decarburising ferrous melts	M24-C06
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Decongestant	B12-K05 B14-K01E C12-K05 C14-K01E
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Decorative coatings on concrete	L02-D14P
Decorative laminates production	A11-B09B

Decorative laminates, board	A12-A04A	bonds (catalytic) other than of carbon-carbon (C-C) bonds (catalytic)	N07-C02 N07-C03	Dentistry preparations	D08-A
Decyclization catalytic	N07-F08	Dehydrohalogenated/ dehydrohalogenation of polymers	A10-E04	Dentrifices	A12-V04B B12-M02A C12-M02A D08-B08A
ring opening reaction process	E11-A02	Dehydrohalogenation reaction	E11-G04	Dentures	A12-V02B D08-A03
ring opening reaction apparatus	E11-A02	Dehydroxylation	E11-G06	Deodorants	
Deep drawing polymers	A11-B08+	Deicing compositions	G04-B05	air	D09-B
sheet metal	M21-E03	Delay lines	L03-G01	body	D09-B B12-L01 B14-R03
Deep-relief printing plates	G05-A02	Delayed release	B12-M10B C12-M10B		C12-L01 C14-R03 D08-B09
Defectoscopy	G04-B09	Delivery of molten glass	L01-C04	candles	D09-B02
Deflashing of polymer (mouldings)	A11-A05B	Delrin ®	A05-H02+	devices	D09-B01
Defoaming agents for detergents	D11-B08	Delustrants for polymers		polymer	A08-M04
polymers	A08-S03	inorganic	A08-E02	textile treatment	F03-C09
Defoliants	B12-P02 C12-P02 C14-U01A	organic	A08-E03C	Deodorization	J01-E01B
Defrosting foodstuff	D03-K12	Demetallisation (petroleum refining)	H04-A02	Deoiling (petroleum refining)	H04-A09
Degassing		Demineralisation of water	D04-B07G	Deoxidising ferrous melts	M24-C02
ferrous melts	M24-C	Demisting compositions	G04-B05	Deoxygenation of water	D04-A03B
liquids	J01-D02	Demyelinating disease treatment	B14-S01 C14-S01	Deoxyribonucleic acids	B04-B04A1 B04-E01 C04-B04A1 C04-E01
non-ferrous melts	M25-F	Dendrimer	B04-C03E C04-C03E	Deparaffination	H04-A10A
polymers	A11-A	Denitrification (petroleum refining)	H04-A03	Dephosphorising ferrous melts	M24-C01
solids	J01-G05	Denitrification inhibitors	B12-N08 C12-N08 C14-T01D	Depilatories	B12-L02 B14-R01 C12-L02 C14-R01 D08-B07
Degradation of polymers	A10-E05+ B11-C01 C11-C01 E11-C	Density control agents for explosives	K04-G	Depolymerisation, (process)	A10-E05+ B11-C01 C11-C01 E11-C
Degraded polymers	A10-E05+	Dental	A12-V B12-L03 B14-N06 C12-L03 C14-N06 D08-A	agents	A08-M08
Degrading fibres to improve properties	F03-C08	adhesives	A12-V02B D08-A02	carbonisation	A10-E05B
Degreasing compositions	G04-B08	cements	A12-V02B D08-A02	catalysts	A08-M08
Degreasing metals	M12-B01	fillings	A12-V02B D08-A01	pyrolysis of polymer waste to monomers/ oligomers	A10-E05A A10-E05C
Degutting fish	D02-A02	floss	A12-V04B D08-B08E	Depolymerised polymers	A10-E05+
Dehalogenated/ dehalogenation of polymers	A10-E04	instruments	D08-A04	Deposit prevention in heat exchangers	J08-D02
Dehalogenation reaction	E11-G04	porcelain prostheses	L02-G03A A12-V02B D08-A01	Dermatitis treatment	B12-A07 B14-N17C C12-A07 C14-N17C
Dehalogenation (process) for petroleum refining	H04-E14	strips	D08-B08D	Derris extracts	B04-A07B C04-A07B
Dehumidification	J01-E01A	cleaning device	D08-A04A	Desalination of brine or sea water	D04-B07F
Dehydrating oil well effluent	H01-E01	Dental toilet requisites	A12-V04B D08-B08	Desalting (crude oil)	H01-E01
Dehydrating sludge from waste water	D04-B10	Dental use of specific polymer types (meth)acrylate	A04-F06E5 A03-A04A1	Descaling of metal	M21-N
Dehydration	E11-G05	(co)polymers	A05-F01E3	mechanical	M12-A
Dehydrogenase agonists	B14-L01A1 C14-L01A1	cellulose ethers	A04-G02E3	pickling	M12-A04
inhibitors	B14-D05D C14-D05D	polyamides	A04-G03E1	pickling, apparatus	M12-A03
Dehydrogenases	B04-L03D C04-L03D	polyethylene	A10-E09B2	pickling, disposal/ regeneration of solutions/salt mixtures	M12-A02
Dehydrogenated/ dehydrogenation of polymers	A10-E11	polypropylene	A06-A00E3	pickling, inhibitors	M12-A02
Dehydrogenation (process)	B11-C01 C11-C01 E11-E	PVA		pickling, solutions/salts mixture	M12-A01
for petroleum refining	H04-E03	silicones			
of carbon-carbon (C-C) bonds	E11-E02				
of carbon-carbon (C-C)					



Desensitisers, electron acceptors, photographic	G06-H06	Deuterium compounds	B05-A04A B05-C08 C05-A04A C05-C08	Dialkyl orthophosphate (or salt)	B05-B01P C05-B01P E05-G09C
Desiccants agricultural	B12-P02 C12-P02 C14-U01A	inorganic	E31 E32 E33 E34 E35	Dialkylaminoalkyl (meth) acrylates (co)polymers monomer	E10-B02E A04-D09 A01-D07 A01-D10B
Designing		organic	E05-R	Diallyl amine (co)polymers monomer	E10-B04B A04-B A01-C04
knitted fabrics	F02-B01	Developer stabilisers (photographic)	G06-H03	Diallyl ethers (co)polymers monomer	E10-H01 A04-B A01-C04
woven fabrics	F02-A02	Development (photographic) accelerators	G06-H12	Diallyl fumarate (co)polymers monomer	E10-G02 A04-A03 A01-B03
Desizing of fabrics	F03-B	black and white silver halide	G06-G01	Diallyl glycol carbonate (co)polymers monomer	E10-A11B E10-A11B1 E10-A11B2 A04-B09 A01-C01
Desoldering apparatus	M23-A03	colour	G06-G10	Diallyl maleate (co)polymers monomer	E10-G02 A04-A03 A01-B03
Desulphurising		nuclei of photosensitive resin systems	G06-A04	Diallyl phthalate (co)polymers monomer production	E10-G02 A04-B09 A01-C01 E10-G02A E10-G02A1 E10-G02F1
catalytic	N07-F11	polymer use in restrainers	G06-G17 A12-L02F G06-H13	Dialysis in test	J01-C03B B11-C08D3 C11-C08D3
ferrous melts	M24-C01	Devices for animal body (use on or in)	B11-C04 C11-C04	membranes	A12-W11A D04-A01D D04-A01E
petroleum refining	H04-A01	Devices for drying food	D03-K09	water with hollow fibres	F04-E04
water	D04-B07D	Devices for deodorising/sterilising	D09-B01	Diamine, hexamethylene condensant	E10-B01E A01-E05
Detection, determination of catalysts	N06-D	Devolatilisation of polymers	A10-G01A	Diamines - see also Polyamine	B10-B01 C10-B01 E10-B01 A01-E05
Detection, general	E11-Q J04-C K02-A04	Dewatering on papermaking machines	F05-A04B	condensants	E07-D13 A01-E01
of NBC agents		Dewatering sludge	D04-B10A	Diaminotriazines condensants	E31-N03A L02-F05
see also compounds detected and detecting compounds		Dewaxing (petroleum refining)	H04-A10	Diamond (production)	E31-N03A L02-F05
Detectors		Dextrans	A03-A+ B04-C02C C04-C02C D06-H01	Diamond abrasives	L02-F05
electrical	A12-E13	Dextrins	A03-A+ B04-C02B C04-C02B D06-H	Diapers	A12-V03A D09-C F04-C01A
fire, smoke, burglar	A12-R02	Diabetic dietary foods	D03-H01T5	from cellulose fibres, paper making pulp	F05-A07
Detergents		Diabetes treatment	B12-H05 B14-S04 C12-H05 C14-S04	Diaphragms	B14-P01B C14-P01B
additives (non surface active)	D11-B	Diabetes monitoring type II diabetes	J04-B01B1 B14-S04A C14-S04A	contraceptives	B12-K03 C12-K03
bleaches for fibres or fabrics use	D11-B01	Diacetone acrylamide (co)polymers monomer	A04-D04+ A01-D05 A01-D06	mechanical engineering	A12-H07
formulation	A12-W12A	Diagnosis	G02-A02C4 A12-V03C2 B12-K04 C12-K04	Diarrhea treatment	B12-J04 B14-E02 C12-J04 C14-E02
fuel additives	D11-D	Diagnosis of diseases in animals	B12-K04A C12-K04A B12-K04G C12-K04G		
granular laundry compositions	H06-D03				
laundrying textiles use	D11-D08				
lubricant additives	F03-J03				
petroleum products	H07-G03				
polymer use	H08-E05				
production by sulphonation	A12-W12+ D11-D05				
special materials and methods	D11-D				
special use of	D11-D01				
surface active, non-soap	D11-A				
thickeners	D11-B24				
testing	D11-D				
without tensides	D11-F				
Determination, general - see also compounds determined and determining compounds	E11-Q				
Detonators	K04-B01				
Detoxification treatment	B12-J05 C12-J05				
for alcoholics	B14-M01A C14-M01A				
for drug addicts	B14-M01C C14-M01C				
general	B14-M01 C14-M01				
Deuterium (production)	B05-A04A B05-C08 C05-A04A C05-C08 E31-A K05-B05A				

Diarylmethane dyes	E25-D	Dicarboxylic acids and diisocyanates derived polyamides	A05-F	Dietetics	B12-J01 B14-E12 C12-J01 C14-E12
Diatomaceous refractories	L02-E02	Dichlorobenzene	E10-H02E E10-H03C1 E10-H04C1 A01-E	Diethanolamine condensant	E10-B03B A01-E05 A01-E14
Diatomite fillers	B04-D02 C04-D02 A08-R06A	Di(chloromethyl) oxacyclobutane (co)polymers monomer	E07-A03 A05-H A01-E08	Diethyl aluminium chloride catalyst	E05-B02 A02-A07+ N05-A
Diazete	B07-D07 C07-D07 E07-D07	1,1-Dichloroethylene	E10-H02G E10-H03C3 E10-H04C3	Diethyl terephthalate condensant	E10-G02 A01-E11
Diazo compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B	(co)polymers homopolymer monomer	A04-E07 A04-E06 A01-D12	Diethylene glycol condensant	E10-E04H1 A01-E14
Diazo element (radiation sensitive system)	G06-F02	Di(chlorophenyl)sulphone condensant	E10-A10B A01-E	Diethylene triamine condensant	E10-B01E A01-E05
Diazo processing	G06-G09	Dicing semiconductor wafers	L04-C07E	Diffusion apparatus for semiconductor processing	L04-D06
Diazonium compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B E21-E	Dicyclopentadiene (co)polymers monomer	E09-D02 A04-B A01-C05	Diffusion bonding	M23-E
Dibenz(b,f)azepine	B06-D12 C06-D12 E06-D12	Dicumyl peroxide catalyst for polymerisation crosslinker for addition polymers crosslinker for other polymer redox catalyst for polymerisation	E10-A04 A02-A01 A08-C05 A08-D A02-A03	Diffusion coating metal using gas using liquid using solid	M13-D M13-D03 M13-D02 M13-D01
Dibenzazepine (excluding dibenz (b,f)azepine)	B06-D13 C06-D13 E06-D13	Dicyandiamide condensant	E10-A15 A01-E03	Diffusion doping of semiconductor layers	L03-C02D
Dibenzocycloheptane	B08-D01 C08-D01 E08-D01	Dicyandiamide-formaldehyde resin	A05-B	Diffusion transfer photographic systems multicolour single colour	G06-C09+ G06-C10+
Dibenzodiazepine	B06-D16 C06-D16 E06-D16	Dicyclopentadiene (co)polymers monomer	E09-D02 A04-B A01-C05	Digested material treatment before paper formation	F05-A03
Dibenzodiazocine	B06-D16 C06-D16 E06-D16	Dicyclopentadiene dioxide	A05-A05 E06-A03	Digesting pretreatment in papermaking	F05-A02A
Dibenzofuran	B06-A03 C06-A03 E06-A03	Die plates for forming fibres	F01-C01	Diglycidyl carboxylates	A05-A04 E07-A03
Dibenzopyran	B06-A03 C06-A03 E06-A03	Dielectric ceramic oxides inorganic compositions material organic compositions polymer properties	L03-B03 L02-G07C L03-B03E L03-B03 L03-B03F A09-A03	Diglycidyl derivatives of amines	A05-A04 E07-A03
Dibenzothiophene	B06-B02 C06-B02 E06-B02	Diene polymer coatings	A12-B01C G02-A02D1	Diglycidyl ether of bisphenol A polyisocyanate based polyoxazolidone	A05-A02 E07-A03 A05-A02 A05-J02
Dibenzoyl peroxide for crosslinking addition polymers for crosslinking other polymers polymerisation catalyst redox catalyst	E10-A04 A08-C05 A08-D A02-A01 A02-A03	Diene polymer polyol polyurethane	A05-G	Dihaloamines (organic)	E10-A02
Dibutyl adipate plasticiser	E10-G02 A08-P04	Diene rubbers based adhesives/binders	A04-B+ A12-A05A G03-B02B	Dihydric alcohols condensants	A01-E14
(Di)butyl maleate (co)polymers monomer	E10-G02 A04-F07 A01-D10 A01-E12	Dies die casting dies forging, hammer and pressing dies metal casting dies metal drawing dies metal extrusion dies rolling dies	M22-G03D M21-J02 M22-G03G3 M21-B01B M21-B02C M21-A02	Dihydric phenols condensants	A01-E13
Dicarboxylic acid - see Polycarboxylic acid		Dietary fibre	D03-H01T1	Dihydrofuran	B07-A01 C07-A01 E07-A01
Dicarboxylic acid, aliphatic derived saturated polyesters	A05-E02	Dietary foods e.g. diabetic, gluten free	D03-H01T5	Dihydroxy benzophenone condensants	E10-E02D2 A01-E13
		Diesel fuel	H06-B04	Dihydroxy diphenyl ether	E10-E02D2
				Dihydroxy diphenyl ketone condensants	E10-E02D2 A01-E13
				Dihydroxy diphenyl methane condensants	E10-E02D4 A01-E13

Dihydroxy diphenyl propane condensants	E10-E02D4 A01-E13	Diols condensants	A01-E14	magnetic recording	A12-E08A2 L03-B05B
Dihydroxy diphenyl sulphide condensants	E10-E02D1 A01-E13	Dioxane	E07-A04	magneto-optical optical	G06-D07 A12-L03C G06-D07
Dihydroxy diphenyl sulphone condensants	E10-A10B A01-E13	Dip coating with polymers	A11-B05A	video	A12-W01A
Dihydroxydiphenyl ether	A01-E13	Dip for tyre cords non-polymeric polymeric	A08-M01+ A12-T01C	Dishwasher detergents	D11-D01A
Diisobutene (co)polymers monomer	E10-J02C A04-G A01-D13	Dip moulding/ forming of polymers	A11-B04B	Dishwasher rinse aids	D11-D07E
Diisobutylene (co)polymers monomer	E10-J02C A04-G A01-D13	Diphenyl methane diamine condensants	E10-B01B A01-E05	Disinfectants	B12-A01 B14-A01 C12-A01 C14-A01 D09-A01
Diisocyanate + diacids derived polyamides	A05-F	Diphenyl methane diisocyanate	E10-A14 E10-A14A E10-A14B A01-E02	polymer additives	A08-M02
Diisocyanates	E10-A14 E10-A14A E10-A14B A01-E02	condensants	E10-E02D2 A01-E13	Disinfection aseptic environment chemical methods	D09-B03 D09-A01 D09-B02 D09-B
Dilauroyl peroxide catalyst for polymerisation crosslinker for addition polymers crosslinker for other polymers redox catalyst	E10-A04 A02-A01 A08-C05 A08-D A02-A03	Diphenylol ether condensants	E10-E02D2 A01-E13	candles of air of materials (other than food) physical methods	D09-A D09-A02
Diluent for polymers reactive	A08-S02 A08-P	Diphenylol ketone condensants	E10-E02D2 A01-E13	Disintegrating plant processes	J02-B01 J02-B02
Dimensional stabilisation of fabrics, chemical treatment	F03-C04	Diphenylol methane condensants	E10-E02D4 A01-E13	Dispensers (excluding syringes)	B11-C03 C11-C03 D03-K10
Dimerisation equipment	A10-B08 E11-F01A A10-B01	Diphenylol sulphide condensants	E10-E02D1 A01-E13	foodstuffs	D03-K10
Dimerised fatty acids condensants	A01-E12	Diphenylol sulphone condensants	E10-A10B A01-E13	Dispersants for dyes/pigments for polymers	J02-A03 A08-M01A
Dimethano(1,4:5,8)-naphthalene	B09-C02 C09-C02 E09-C02	Dipping, coating with polymer by	A11-B05A	Disperse dyes for dyeing printing fibres	F03-F18
Dimethyl formamide	E10-D03D	Dipping, polymer articles formed by	A11-B04B	Dispersing agents	J02-A B12-M09 C12-M09 J02-A03C J02-A03B
Dimethyl phthalate condensant	E10-G02 A01-E11	Dipropylene glycol condensant	E10-E04H1 A01-E14	apparatus agents for dyes/pigments for polymers processes	A08-M01A J02-A03A
Dimethyl polysiloxane	A06-A+	Direct contact heat exchangers	J08-B	Dispersion coating process	A11-B05D
Dimethyl vinyl ethynyl carbinol monomer	A01-B01	Direct contact trickle coolers	J08-B01	Dispersion hardening of metals by casting method heat treatment - see Heat treatment physical method (ferrous metal)	M22-G03K M24-D06
Dimethylaminomethyl methacrylate (co)polymers monomer	E10-B02E A04-D09 A01-D07 A01-D10B	Direct dyes for dyeing/ printing fibres	F03-F20	physical method (non-ferrous metal) powder metallurgy	M29-D M22-H03F
Dimethylol urea	A05-B03 E10-A13B E10-A13B1 E10-A13B2	Direct electron recording	G06-D03	Dispersion, aqueous	A07-B+
Dinitrosopenta- methylene tetramine blowing agent	A08-B03	Direct positive materials for photosensitive systems	G06-C05	Dispersions, polymer	A07-B+
Diocetyl phthalate plasticiser	E10-G02 A08-P02	Disaccharides (non-heterocyclic known structure)	E10-A07	Displacement techniques, oil wells	A12-W10B
Diodes rectifiers semiconductor	L04-E02 L04-E03A	Disaccharides (unknown structure or general)	B04-D01 C04-D01 D06-G	Displacing liquids by another fluid	J01-C02
Diolefinic (co)polymers	A04-B+	Discharge devices, iron and steel production	M24-A05C	Display devices electrochromic electrowetting LED display liquid crystal	L03-G05 L03-G05C L03-G05J L03-G05K A12-L03B L03-G05A
Diolefinic monomers	A01-C+	Discharge dyeing/ printing of fibres	F03-F28		
		Discharge tubes or lamps	L03-C		
		Discharge, electric chemical modification of polymers by surface treatment of polymers	A10-E10 A11-C04E		
		Discontinuous paper/ cardboard sheets formation	F05-A04D		
		Discs floppy	A12-E08A2 L03-B05B		
		gramophone	A12-W01		

liquid crystal, components for	L03-G05B	Divinyl toluene (co)polymers monomer	E10-J02B A04-B10 A01-C03	probes	B04-E05 C04-E05 D05-H12D1
Displays - (see also Advertising)	A12-W03	DMC	A12-S	regulation sequences	B04-E04 C04-E04 D05-H12D5
Disposal of old tyres	A12-T01D	DNA - see also Nucleic acid amplification method	D05-H18B	ribosomal	B04-E07 C04-E07
Dissolution, pore forming by	A11-B06D	DNA/RNA	B04-B04A1 C04-B04A1	ribozyme	B04-E07A C04-E07A D05-H12D4
Dissolving out a component (purification of polymers)	A10-G01+	antisense sequences	B04-E06 C04-E06 D05-H12D2	sequencing method	B11-C08E4 C11-C08E4 B11-C08F7A C11-C08F7A
Dissolving/degrading treatment for fabrics	F03-C08	biosynthesis of cDNA	D05-C07 D05-H12	short interfering RNA	D05-H18A B04-E07C C04-E07C
Distillation Apparatus	J01-A02A J01-A02A3 J01-A02A4	DNA/RNA chip	B11-C08E6 C11-C08E6	small hairpin RNA	D05-H12D8A B04-E07E C04-E07E
columns extractive fermented solutions	J01-A02A2 J01-A02A1 D05-D	coding sequences (altered)	B04-E02	transfer RNA	D05-H12D8C B04-E07 C04-E07
fuels of polymers	H06-B08 A10-G01+	coding sequences (other)	B04-E03	transgenes	B04-E02+ C04-E02+ D05-H12C
petroleum processing water treatment by	H02-A D04-A01A	cosmids	B04-E08 C04-E08	vectors	B04-E08 C04-E08 D05-H12E
Distomiasis treatment	B12-B06 B14-B03 C12-B06 C14-B03	DNAzyme	B04-E07B C04-E07B D05-H12D7	wild-type coding sequences	B04-E03+ C04-E03+ D05-H12A
Distribution of electricity	L03-H01	DNA probe test method	B11-C08E5 C11-C08E5	DNA/RNA polymerase agonists	B14-L01A2 C14-L01A2
Distributors for use in forming fibres	F01-C01	DNA probe test reagent	B12-K04F C12-K04F	inhibitors	B14-D06A C14-D06A
Disulphides (organic)	B10-A04 C10-A04 E10-A04	fusion genes	B04-E02H B04-E03H C04-E02H C04-E03H D05-H12C	Dobbys	F02-A02
Dithiocarbamates accelerators for crosslinking	A08-C03 A08-D04	general	B04-E01 C04-E01 D05-H12	Doctors for papermaking machines	F05-A05
Dithiocarbamic acid, or ester (organic)	B10-A12A C10-A12A E10-A12A E10-A12A1 E10-A12A2	hybridisation test method	B11-C08E5 C11-C08E5 B11-C08F8 C11-C08F8	Dodecylbenzene sulphonate	E10-A09B
Dithiocarbonic acid ester	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2	hybridisation test reagent	B12-K04F C12-K04F	Dodecylactam condensant	A01-E04
Dithiole	B07-B03 C07-B03 E07-B03	micro RNA	B04-E07D C04-E07D D05-H12D8B	Doffing of bobbins	F01-H03C
Diuretics	B12-G03 B14-N08 C12-G03 C14-N08	mitochondrial	B04-E07 C04-E07	Dog bones (synthetic)	D03-G06
Divided (powdery), forms of polymers production of	A12-S09+ A11-A04	mutant sequences	B04-E02+ B04-E02+ D05-H12B	Dolomite preparation	L02-B02
Divinyl benzene (co)polymers monomer	E10-J02B A04-B10 A01-C03	non-coding sequences	B04-E07 C04-E07 D05-H12D	Domestic	C14-X
Divinyl benzene-styrene copolymer	A04-B10 A04-C04+	oligonucleotides	B04-B03C C04-B03C	Donning of bobbins	F01-H03C
Divinyl ether (co)polymers monomer	E10-H01 A04-B A01-C04	oncogene	B04-E02G B04-E03G C04-E02G C04-E03G	Doors, polymer use in building glazing transport	A12-R02A A12-R04 A12-T04+
		plasmids	B04-E08 C04-E08	DOP plasticiser for polymers	A08-P02
		polymerase, for use in genetic engineering polymerases	D05-H19B B04-L04A C04-L04A	Dopaminergic	B14-J02C2 C14-J02C2
		primers	B04-E05 C04-E05 D05-H12D1	Doping glass, surface doping	L01-G05A
				Doping semiconductors layers, and regions - general	L04-C02 L04-C02D
				layers, by diffusion	L04-C02C
				layers, by direct contact with liquid or solid	L04-C02B
				layers, by ion implantation	L04-C02A
				layers, simultaneously with layer formation	L04-B03
				single crystals	

Dosimeters personal	A12-L K07-A01	Drive fluids for oil wells, polymer use	A12-W10B	Duchenne muscular dystrophy	B14-J05E C14-J05E
Dosing in polymer processing	A11-A	Drug combination	B14-S18 C14-S18	Durable press fibre/ fabric treatment	
Dots, magnetic	L03-B06	Drug conjugates general	B04-Q C04-Q	non-resinous	A12-S05R F03-C04
Doubling of fibres, yarn	F01-H01	Antibody drug conjugate	B04-Q01 C04-Q01	resinous	A12-G02 F03-C04
Dough	D01-B	Other protein/peptide drug conjugates	B04-Q02 C04-Q02	Dusting agents for polymers	A08-M07
additives	D01-B01	Synthetic polymer-drug conjugates	B04-Q03 C04-Q03	Dusting powders	B12-M02E C12-M02E E12-A07
containers for cutting and dispensing equipment	D01-A02	Drug design by computer modelling	B11-C08H C11-C08H	Dwarfism treatment	B14-S02 C14-S02
handling	D01-A	Drug screening	B11-C08 C11-C08	Dye	
mixing equipment	D01-A05	Drug testing	B12-K04E C12-K04E	addition to paper, cardboard	F05-A06D
shaping	D01-A02	drug discovery	B12-K04E1 C12-K04E1	auxiliaries for fibres	F03-F32
transporting equipment	D01-A03	other drug testing	B12-K04E3 C12-K04E3	composition containing polymer	A12-W11H
Dough moulding compounds	A12-S	Drums (containers) and drum linings	A12-P05	destruction colour material for	G06-C03
Downhole protector	H01-B03C5	Drums (musical)	A12-W08	photosensitive systems	
Downy mildew	C14-A06P	Dry cleaning textiles	F03-J04	dispersants for fabrics/fibres	F03-F32
Doxorubicin	B02-D C02-D	Dry etching semiconductors	L04-C07B	dispersants for polymers formulation	A08-M01A E27-A02
Doxycycline	B02-T C02-T	Dry powder inhaler	B12-M01B1 C12-M01B1	general	E25
Drafting yarn	F01-F02	Dry spinning	A11-B15C F01-C08A	LCD	L03-G05B3
Drain cleaners	D11-D01E	Dry toning, electrophotographic	G06-G05	levellers for fabrics/fibres	F03-F32
Draperies	A12-D01 F04-D03	Dry-laying non-woven fabrics	F02-C02	levellers for polymers	A08-M01A
Draw texturing of fibres	F01-C06 F01-H04+	Drying		morphology of precursors	E27-B02 E26
Drawing		agents (siccative)	G02-B04	precursors, couplers (azo or oxidation)	E26-A
artificial filaments	F01-C06	apparatus or machines	J08-G	precursors, lactone, lactam, sultone, sultam, photochromic, or spiropran	E26-B E26-C
equipment	M21-B01B	ceramics or refractories	L02-A03	precursors, others	
glass from melts	L01-D01	coffee	D03-D01D	receptiveness, improving agents for polymers	A08-M01A
metal sheets, wires, rods, tubes or profiles	M21-B01	compression	J08-F05	receptiveness, properties of polymers	A09-A06
optical glass fibres	L01-F03G	fabrics (laundering)	F03-J01	receptiveness, treatment for fabrics/fibres	F03-C06
polymers	A11-B02+	fabrics (non-laundering)	F03-A02	release diffusion transfer materials, multicolour	G06-C09A
processes	M21-B01A	food (devices)	D03-K09	release diffusion transfer materials, single colour	G06-C10A
slivers	F01-F02	gases	J01-E01	removal from water	D04-B06B
texturing yarns only by	F01-H04C1	general applications	J08-H	treatment (of)	E11-Q
Dresses of fabric	A12-C03 F04-C03	hot blast	M24-A05E1	Dye type	A08-E03+ F03-F+ F03-F21 A08-E03B E22 A08-E03A+ E21 A08-E03A3 A08- E03A2 A08-E03A1 F03-F22 F03-F20 F03-F18 E24-A
Dressing of fibres, yarns	F01-H06+	in polymer processing	A11-A02+	acid, anionic	
Dressings for wounds	A12-V03A D09-C+ F04-E04	oils	G02-B03	anthraquinone	
Drier sections, of papermaking machines	F05-A04C	oils, containing polyesters	A05-E08	azo	
Driers for paints	G02-B04	processes	J08-F	azo, dis- or poly- azo, mono-, water insoluble	
Driers for textiles	F03-J01	processes, photographic	G06-E05	basic, cationic	
Drilling fluids	A12-W10A H01-B06	purification of polymers by	A10-G01A	direct	
additives	H01-B06C	sludge from water	D04-B10	disperse	
oil-based	H01-B06B	tea	D03-D02D	fluorescent	
water-based	H01-B06A	through air drying	J08-H02		
Drilling mud	A12-W10A H01-B06	wood	F05-B		
additives	H01-B06C	Dual-in-line packaging	L04-F05		
mixing and processing	H01-B03A2	Dual release devices	B12-M10A6 C12-M10A6		
oil-based	H01-B06B				
water-based	H01-B06A				
Drilling of polymers	A11-A05A				
Drilling, methods or equipment (oil and gas)	H01-B				
Drip-dry finishes for textiles	F03-C04				

fluorescent brightener	A08-E03C D11-B01 E24-A F03-B01
general leuco vat	E25 F03-F23
light sensitive, for radiation sensitive systems	G06-F05
Luminescent containing metals	E24-A06A
Luminescent general	E24-A06
Luminescent heterocyclics	E24-A06B
Luminescent others	E24-A06C
macrocyclic	E23
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pigment for fibres, fabric	F03-F17
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Dyeability of polymers	A09-A06
Dyed textiles, after-treatment(of)	F03-F14
Dyeing	
aids for polymers	A08-M01A
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processes, cheese	F03-F29
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processes, warp	F03-F29
Dyes for: (including Dyeing of)	
acrylics	F03-F05
animal substrates (e.g. silk wool)	F03-F02
cellulose esters	F03-F04
cellulose(ics)	A12-S05N F03-F03 F03-F09
crayons	G02-A04B
fabrics/fibres	F03-F+
filter(s) for light sensitive compositions	G06-A02
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polyamides	A12-S05N F03-F06+
polyesters	A12-S05N F03-F07+
polymers	A08-E+
polyolefins	F03-F08
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Dynamic modulus of polymers	A09-A05
Dysentery treatment	B12-B01 B14-E10D C12-B01 C14-E10D
Dyskinesia treatment	B12-E02 C12-E02
Dyslipidemia treatment	B14-F06A C14-F06A
Dysmenorrhea treatment	B12-E09 B14-N14 C12-E09 C14-N14
Dyspepsia treatment	B12-J03 B14-E01 C12-J03 C14-E01
Dyspnea treatment	B12-K06 B14-K01 C12-K06 C14-K01
Dysprosium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P
catalysts	
inorganic	
organic	
Dystonia treatment	B12-E02 C12-E02

**E**

Ear preparations (general)	B12-L04 B14-N02 C12-L04 C14-N02
Earth consolidation	A12-A02 A12-W10C
Ebolavirus treatment	B14-A02B C14-A02B
Ecdysone	B04-J16 C04-J16
Ectoparasite treatment	B12-B04 B14-B02 C12-B04 C14-B02
Eczema treatment	B12-A07 B14-N17 C12-A07 C14-N17
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	A10-D+	generation, conversion		non-emissive	L03-C01
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Electric steels	L03-B02A3	Electro steel processing	M24-B02D	electrophoresis cells	A12-E09
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cable insulation		Electrochromic displays	A12-E11A	Electroless plating of metal	M13-B
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Electromagnetic screening	A12-E01A	toners	A12-L05C2	Elliptical optical glass fibres	L01-F03J
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Electrophoretic coating of metal displays and materials	M11-G L03-G05G	polyethylene	A04-G02E3	formation (excluding by polymerisation)	A11-A03+ H06-B09
Electrophotographic apparatus (see also G06-G05 to G06-G08+)	A12-L05C1	polypropylene	A04-G03E1	fuels	A10-C03B
antireflective layer	G06-A02A	polyvinyl alcohol	A10-E09B2	graft copolymerisation	A10-C03B
binders	A12-L05D	silicone polymers	A06-A00E4	paints (water based)	A12-B01A
carriers	A12-L05C2	Electrophotography (see also section G)	A12-L05+	polymerisation	A10-B03 A10-C03B A10-D+ F01-C07
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cleaning process (including removing toner from image or apparatus)	G06-G08E	apparatus	A12-W12E	supports (photographic)	
developed image fusion	G06-G08C	bath additives	A11-C04B1	Emulsification	J02-A J02-A03C J02-A03B J02-A03A
developed image transfer	G06-G08B	plastics	L03-H04E3	agents	
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liquid toning	G06-G06	coating with polymer	A11-B05A	vitreous	
photoconductive polymers	A12-L05B	precipitation from gases	J01-G04	Enamels	
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		recording	A12-L05+	excluding coatings	A12-W12G A12-B
		separation of solids	J01-K02	polymeric	
		spinning	F01-G	Enantholactam condensant	A01-E04
		Electrostrictive devices	L03-G10		
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		Electrothermic production or refining of metal	M28-F		
		Electrothermic treatment of alloy, metal or ore	M28-E		
		Electrowetting devices	L03-G10J		



Encapsulated components electrical non electrical	A12-E04 A12-W05	biosynthesis of catalysts compositions (polymer use) W11L	D05-C03 N05-E A12- W11L	soybean oil plasticiser/ extender	A08-P07
Encapsulating electrical components integrated circuits, chips etc. with lead frames and assemblies	A11-B05+ A12-E04 L04-C02D	detergent additives general inhibitor activity	D11-B01D3 B12-G01B B14-D03 C12-G01B C14-D03	Epoxy compound, polymerisation catalyst for	A02-A+
Encapsulation of pharmaceuticals	J04-A06 B12-M18 C12-M18	inhibitors	B04-B04F B04-M01 C04-B04F C04-M01	Epoxy containing plasticisers	A08-P07
of printed circuit boards of semiconductors, apparatus, moulds, hand equipment	L03-H04E8 L04-C20C	polymerisation catalyst precursors, other	A02-A12 B04-L09 C04-L09	Epoxy group containing condensants	A01-E07
of semiconductors, in glass of semiconductors, in resins	L04-C20B A12-E04 A12-E07C L04-C20A	process excluding polarography or labelling	B11-C08E3 C11-C08E3	Epoxy paints, varnish or lacquer	A12-B01L G02-A02G G02-A02C1
Encephalitis	B14-N16 C14-N16	processes with enzymes fixed to carriers	D05-A01	acrylic	A12-B01L G02-A02C1
Encrustation of equipment, (with polymer) prevention of	A10-G02	processes with enzymes not fixed to carriers supports	D05-A02 A12-W11L D05-A01	Epoxy resins adhesives	A05-A+ A05-A01E3 A12-A05C G03-B02E2 A10-E18 A12-B01L G02-A02G A05-A05 A05-A01E2 A05-A01E+
End etherified polymers	A10-E08+	tracers bound to antigen/ antibody	B11-C07A4 C11-C07A4	amination coatings/paints	A10-E18 A12-B01L G02-A02G A05-A05 A05-A01E2 A05-A01E+
End joining in winding	F01-H03B	EPDM	A04-G06+	cycloaliphatic electrical encapsulation general applications	A05-A01E3 A05-A01E4 A05-A01E2 A05-A01B A05-A01C A05-A01A A05-A01D
Endocrine gland extracts	B04-B02D C04-B02D	Epichlorohydrin (co)polymers amine condensates condensants monomer rubber	A05-H04 A05-J09 A01-E07 A01-E07 A05-H04	glycidyl ether of alcohols glycidyl ether of phenols in polymeric blends other glycidyl compounds other specific compounds	A05-A03 A05-A02 A07-A+ A05-A04 A05-A
Endorphins	B04-J11 C04-J11	Epikote 828 ®	A05-A02	3,4-Epoxy-6-methylcyclo hexyl methyl-3,4-epoxy-6- methyl cyclohexane carboxylate	A05-A05 E06-A03
Enemas	B12-M08 C12-M08	Epilepsy treatment	B12-D04 B14-J07 C12-D04 C14-J07	EPR	A04-G06+
Energy boosters	D03-H01T4	Epimerase	B04-L07 C04-L07	Equipment cleaning of paper making equipment of polymerisation equipment	F05-A04E A10-G
Energy conversion devices	L03-E05	Episulphides (co)polymers condensants	A05-J05 A01-E07	Equipment control in extruders in moulding processes other	A09-D+ A09-D02 A09-D01 A09-D03
Engine exhaust gas detection/measurement treatment	H06-C05 H06-C04 E11-Q02A	Epitaxial growth of semiconductor layers - general	L04-C01	Equipment encrustation (with polymer), prevention of	A10-G02
Engine systems (transport)	A12-T04C	Epocryl ®	A10-E07B	Equipment for polymerisation addition (co)polymerisation ordered addition copolymerisation polycondensation	A10-B01 A10-C+ A10-D04
Engineering nuclear applications tissue scaffold	K09-K D09-C01E	Epon 828 ®	A05-A02	Equipment for processing and treating polymers colouring, bleaching compounding, mixing, homogenising extruder design injection moulds injection, other others - see appropriate process code spinning heads, die design	A11-A01B A11-A03A A11-B07C A11-B12B A11-B12C A11-B15A
Engineering (application of polymers) chemical civil electrical mechanical nuclear	A12-W11+ A12-R+ A12-E+ A12-H+ A12-W11C	Epoxidation of polymers	A10-E06		
Engines, jet	A12-T03	Epoxides (i.e. monoepoxides) condensants	A01-E07		
Enkephalins	B04-J11 C04-J11	Epoxides (unfused)	B07-A03 C07-A03 E07-A03		
Entangling yarns	F01-H02	Epoxides of bicycloalkenes	B06-A03 C06-A03 E06-A03		
Envelopes for discharge tubes or lamps luminescent	L03-C04 L03-C04B	Epoxidised drying oil plasticisers novolac or resols phenolic resins phenoplasts polybutadiene polymers	A08-P07 A10-E08C A10-E08C A10-E08C A10-E06 A10-E06		
Environment friendly	E11-W				
Enzymes	A12-W11L B04-B02C B04-L01 C04-B02C C04-L01				
agonist	B14-L01A C14-L01A				

Equipment, polymer use in		by unsaturated polybasic acids (derivatives)	A10-E07A	Ethanolamine condensant	E10-B03B A01-E05 A01-E14
electrophotographic laboratory	A12-L05C1 A12-L04+	Esterification, polymerisation by	A10-D05	Ethene	E10-J02C
medical	A12-V03+	Esterified polymer	A10-E07+	copolymers general	A04-G11
photographic	A12-L+	Esters non-conjugated, diolefinic (co)polymers	A04-B09	copolymers, with olefins	A04-G06+
Erasers	A12-D05	Esters, acrylic (co)polymers	A04-A03 A04-B09 A04-F06+	copolymers, with other monomers	A04-G08+
Erasing liquids	G02-A03C	Esters, cellulose	A03-A02+ A03-A03 B04-C02A3 C04-C02A3	copolymers, with vinyl acetate	A04-G07
Erbium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	Esters, inorganic, cellulose	A03-A03 B04-C02A3 C04-C02A3	monomer	A01-D13
catalysts		Estr - see also Oestr-1,4-Estradienes	B01-B03 C01-B03	polymer	A04-G02+
inorganic		Estradienes (two ring "A" double bonds other than 1,4)	B01-B04 C01-B04	Ether, mono-unsaturated	
organic		Estradiols	B01-A02 C01-A02	aliphatic, monomer (co)polymers	A01-D11 A04-F11
Ergot alkaloid	B04-A03 C04-A03	Estranes (saturated ring "A")	B01-D02 C01-D02	Etherification/ etherified polymers	A10-E08+
Erosion (soil) prevention	A12-A02 A12-W10C B12-P10 C12-P10 C14-T01B	1,2,5(10)-Estratrienes (excluding estrones and estradiols)	B01-A03 C01-A03	(cyclo)aliphatic ethers of polyoxyethylene/ propylene	A10-E08A
Erythrocytes	B04-B04D1 B04-F04 C04-B04D1 C04-F04	Estrones	B01-A01 C01-A01	other etherified polymers	A10-E08C
bound to antibody or antigen	B11-C07A6 C11-C07A6	Etching metal	M14-A M14-A02	other ethers of polyoxyalkylene glycol	A10-E08B
Erythromycin	B02-E C02-E	chemical processes	M14-A03	Etherification (process) for petroleum refining	H04-E15
Erythropoietics	B12-H01 B14-F03 C12-H01 C14-F03	etching media, liquid or gaseous	M14-A04	Etherified polyethylene glycol using nonyl phenol	A10-E08B
Erythropoietin (Epo)	B04-H07 C04-H07	ion beam processes	M14-A04	Ethers (or thioethers)	B10-H01 C10-H01 E10-H01
Escherichia	B04-F10A3 C04-F10A3	laser processes	M14-A01	Ethers, allyl (monoolefinic) (co)polymers	A04-F11
Essential oils	D10-A05A	mechanical processes	M11-H M11-H05 M11-H01	monomer	A01-D11
Ester - see also under appropriate acid		Etching metal, electrolytic apparatus	M11-H01	Ethers, cellulose	A03-A04+ B04-C02A2 C04-C02A2
Ester interchange of (meth)acrylic acid, monoolefinic (co)polymers	A04-F06	cleaning	M13-G	Ethers, cyclic condensant	A01-E08
polycondensation by	A10-D05	electrochemical machinery, localised metal removal	M23-D06	Ethers, diallyl (co)polymers	A04-B
polymer modification by	A10-E07	etching	M11-H04	monomer	A01-C04
Ester plasticisers	A08-P+	polishing	M11-H02	Ethers, F containing monoolefinic, (co)polymers	A04-E10C
aliphatic esters	A08-P05	Etching metal, sputtering	M13-G	Ethers, vinyl (co)polymers	A04-F11
aromatic esters (excluding phthalates)	A08-P03	Etching polymer	A11-C04D	monomer	A01-D11
hydroxy acid esters	A08-P06	Etching processes in semiconductor manufacture	L04-C07 L04-C07A L04-C07C L04-C07B L04-C07D	Ethoxylated sulphate detergents	D11-A01F2
inorganic esters	A08-P05	by dry methods	L04-C07B	Ethoxyline resins	A05-A+
non-carboxylic esters	A08-P05	by ion beam	L04-C07A	Ethyl acetate	E10-G02
phosphorus esters	A08-P05	in liquid phase	L04-C07C	solvent	A08-S02
phthalates	A08-P02	in vapour phase	L04-C07B	Ethyl acrylate (co)polymers	E10-G02
Esterase		using plasma	L04-C07D	monomer	A04-F06+ A01-D10B
agonists	B14-L01A3 C14-L01A3	Ethacrylic acid (co)polymers	E10-C04H A04-F04+ A01-D08	Ethyl acrylate- ethylene copolymers	A04-F06+ A04-G08A
inhibitors	B14-D07A C14-D07A	Ethane-1,2-diol condensant	E10-E04H1 A01-E14	Ethyl acrylate-2- chloroethyl vinyl ether copolymers	A04-E A04-F06+
Esterification	H04-E17	Ethanol production	E10-E04E2 D05-B03	Ethyl alcohol derived acrylic esters (co)polymers	A04-F06+ A01-D10B
Esterification of polymer by saturated acids (derivatives)	A10-E07+			monomer	
by unsaturated monobasic acids (derivatives)	A10-E07C				
by unsaturated monobasic acids (derivatives)	A10-E07B				

Ethyl alpha- chloroacrylate (co)polymers monomer	A04-E A01-D10	Ethylene oxide disinfectant (not of food or air) monomer	E07-A03A D09-A01C A01-E07 A05-H03	2-Ethylhexyl alcohol derived acrylic esters (co)polymers monomer	A04-F06+ A01-D10B
Ethyl cellulose	A03-A04+ B04-C02A2 C04-C02A2	polymer, polymerisation catalyst	A02-A+	2-Ethylhexyl alpha-chloroacrylate (co)polymers monomer	A04-E A01-D10
Ethyl cyanoacrylate (co)polymers monomer	A04-D A01-D04 A01-D10	polymer, preparation, compositions	A05-H03A	2-Ethylhexyl cyanoacrylate (co)polymers monomer	A04-D A01-D04 A01-D10
Ethyl hydroxypropyl cellulose	A03-A04+ B04-C02A2 C04-C02A2	Ethylene oxide-propylene oxide copolymer based polyurethane	A05-G03	2-Ethylhexyl methacrylate (co)polymers monomer	A04-F06+ A01-D10B
Ethyl methacrylate (co)polymers monomer	E10-G02 A04-F06+ A01-D10B	Ethylene oxide-propylene oxide copolymers	A05-H03+ A05-H04	Ethylidene norbornene (co)polymers monomer	A04-B A01-C05
Ethyl methyl ketone condensant	A01-E10	Ethylene polymer adhesives	A04-G02E1 A12-A05B2 G03-B02D3	Ethyne (co)polymers monomer	E10-J01 A04-A02 A01-B02
Ethyl vinyl ether (co)polymers condensants	A04-F11 A01-D11	Ethylene polymers including oligomers	A04-G02+	Euphorics	B12-C10 B14-J01A C12-C10 C14-J01A
Ethylene copolymer with olefin-1	E10-J02C A04-G06+	Ethylene urea condensant	A01-E03	Eupnea treatment	B12-K06 B14-K01 C12-K06 C14-K01
copolymer with vinyl acetate	A04-G07	Ethylene urea- formaldehyde resin	A05-B04	Europium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P
copolymer, other copolymers general monomer	A04-G08+ A04-G11 A01-D13	Ethylene-butene-1 copolymer (LLDPE)	A04-G06+	EVA copolymer	A04-G07
polymer applications polymer applications, coatings, adhesives and binders, textiles	A04-G02E+	Ethylene-chlorotri-fluoroethylene binary copolymer	A04-E10D A04-G08	Evaporation	A10-G+ A11-A02+ J01-A01 D06-D
polymer applications, film, packaging	A04-G02E1	Ethylene-ethyl acrylate copolymers	A04-F06+ A04-G08A	of sugar solutions	A11-B15C F01-C08A
polymer applications, photographic, household, office, medical, dental, cosmetic, veterinary	A04-G02E2	Ethylene-methacrylic acid copolymers	A04-F04+ A04-G08A	Evaporative spinning	A12-T04C
polymer compounding	A04-G02E3	Ethylene-olefin-1 copolymers	A04-G06+	Exhaust systems for engines	L02-B05
polymer fabrication	A04-G02C	Ethylene-propylene binary copolymers	A04-G06+	Expanded clay, preparation of	E12-A10
polymer production	A04-G02A	Ethylene-propylene- (di)cyclopentadiene copolymers	A04-G06+	Expanded forms	A05-C+ A12-S03
polymer treatment	A04-G02D	Ethylene-propylene- diene rubber	A04-G06+	Expanded phenoplasts	A12-S04A A12-S04A1 A12-S04A3 A12-S04A2
Ethylene copolymers (also A4-G6+; A4-G7+)	A04-G08+	Ethylene-propylene- diene terpolymer	A04-G06+	Expanded polymers/plastics compositions, foam forming process, general	A12-S04A A12-S04A1 A12-S04A3 A12-S04A2
Ethylene diacrylate (co)polymers monomer	A04-B09 A01-C01	Ethylene-propylene- ethylidene norbornene	A04-G06+	compositions, foam forming process, general, other polymer compositions (excluding S01-S03)	A12-S04A A12-S04A1 A12-S04A3 A12-S04A2
Ethylene diamine condensant	A01-E05	Ethylene-tetrafluoro-ethylene copolymers	A04-E09 A04-G08	compositions, foam forming process, general, polyolefin compositions	A12-S04A A12-S04A2
Ethylene dimethacrylate (co)polymers crosslinker monomer	A04-B09 A08-C07 A01-C01	Ethylene-vinyl acetate copolymer (EVA)	A04-G07	compositions, foam forming process, general, polyolefin foaming process	A12-S04A A12-S04A2
Ethylene glycol bis(allyl carbonate) (co)polymers	A04-B09	Ethylene-vinyl acetate copolymer adhesive/binder	A12-G03-B02D2	construction material, sound and thermal insulation	A12-S04B
Ethylene glycol condensant	A01-E14	A05B2	G03-B02D2		
Ethylene glycol-terephthalic polyesters	A05-E04+	Ethylenic hydrocarbon	E10-J02C		
Ethylene glycol-terephthalic - isophthalic polyesters	A05-E04+ A05-E05	2-Ethylhexyl acrylate (co)polymers monomer	A04-F06+ A01-D10B		
Ethylene homopolymers	A04-G02+				
Ethylene imine condensant	A01-E05				
polymer	A05-J07				
polymerisation catalyst	A02-A+				

fabrics, furniture, upholstery, furnishings, toys, sports goods	A12-S04D	forming photographic image	G06-G18	FRP (fibre reinforced plastics) production	A11-B09C
integral skin foams, floats cables, electrical insulation	A12-S04E	Extended quinone dyes (general)	E22-E	general associated process	A11- B07D
packaging, containers, agriculture/ horticulture	A12-S04C	Extenders (coal tar fractions, oils, waxes)	A08-P08	general extruder design	A11-B07C
polystyrenes	A12-S01+	Extracting coffee	D03-D01B	haul-off processes	A11-B07D
polystyrenes, foam composition or expanding process	A12-S01A	Extracting tea	D03-D02B	mixing	A11-A03+
polystyrenes, foam-in-place	A12-S02A	Extraction (processes)	B11-B C11-B E11-Q	of ceramic paste	L02-A03
polystyrenes, general foaming process	A12-S02C	from natural materials	E11-Q01B	of film	A11-B07A
polystyrenes, other specific polyurethane	A12-S02E	Other separations	B11-B03 C11-B03	of food	D03-K06
polystyrenes, polyetherurethanes	A12-S02D	Removal processes	B11-B04 C11-B04	of sheet	A11-B07A
polystyrenes, polyurethanes	A12-S02+	Separation of stereoisomers by a biological method	B11-B01 C11-B01	of tube	A11-B07B
thermoset	A12-S03	Separation of stereoisomers by other method	B11-B02 C11-B02	pelleting	A11-A04
Expanding agent	A08-B+	Extraction of ferrous metal by direct reduction, sponge iron or liquid steel production	M24-A M24-A03	polymer re-use by	A11-C03+
Expanding of polymers	A11-B06+	by wet method	M24-A01	recovery of polymer scrap by	A11- C03+
Expectorant	B12-K05 B14-K01E C12-K05 C14-K01E	from scrap, slag, flue dust etc.	M24-A07 M24-A02	regulators	H08-E07
Experimental genomics	B11-C08F2 C11-C08F2	using a blast furnace	M24-A02	spinning	A11-B15+
Experimental proteomics	B11-C08F4 C11-C08F4	Extraction of natural polymers e.g. from trees	A10-A	Extrusion in metallurgy auxiliary processes	M21-B02B
Exploration for oil and gas	H01-A	Extraction of natural rubber	A10-A	control devices	M21-B02D
Explosive ANFO	K04-E01A1	Extraction of non-ferrous metal by dry reduction of ore apparatus	M25-C M25-C01	equipment	M21-B02C
Explosive charges	K03-A	methods	M25-C02	of metal sheet, wire, rod, tube or profile	M21-B02
Explosive forming (metal)	M21-D	Extraction of non-ferrous metal compounds from ore by wet method	M25-B	processes	M21-B02A
Explosive welding	M23-E02	Extraction of non-ferrous metal from scrap, flue dust, slag	M25-E	Eye disorder treatment	B12-L04 B14-N03 C12-L04 C14-N03
Explosives	A12-T03A K04-A K04-E K04-G K04-E03 K04-E01B K04-A02 K04-E01A K04-A01 K04-E02 K04-E01B K04-G K04-F03 K04-F02 K04-E01 K04-E03 K04-E03 K04-E03 K04-F01 K04-A04 K04-F K08-D K04-E03 K04-G K04-E01 K04-A03 K04-E03 K04-E01	Extraction, water treatment by	D04- A01N	Eyelashes, false	A12-V04 D08-B01
additives	K04-E03	Extreme pressure additives for lubricants	A12-W02A	Eye makeup	D08-B01 D08-B01A
azide	K04-E03	Extruded nets	A12-P07 F02-E03	Eyeshields	A12-C02
based on chlorate oxidiser	K04-E01B	Extruder			
based on chlorates	K04-A02	bulk polymerisation in	A10-B02 A10-C03C A10-D+		
based on nitrate oxidiser	K04-E01A	design	A11-B07C		
based on nitrates	K04-A01	equipment control	A09-D02		
based on organic nitro compound(s)	K04-E02	mixing	A11-A03A		
based on perchlorate oxidiser	K04-E01B	safety in	A09-D02		
density control agents	K04-G	Extruding to small particles	A11-A04		
detection	K04-F03	Extrusion	A11-B07+ A11-B07+ A11-B10		
disposal	K04-F02	blow moulding	A11-B07A		
emulsion	K04-E01	blowing of film	A12-S06A		
inorganic	K04-E03	coating	A11-B05B2		
lead azide	K04-E03	crosslinking	A11-C02C		
lead styphnate	K04-E03	flash	F01-C07B		
manufacture	K04-F01	foaming	A11-B06B		
manufacture and treatment	K04-A04				
nuclear	K08-D				
organometallic	K04-E03				
sensitisers	K04-G				
slurry	K04-E01				
sprengel type	K04-A03				
styphnate	K04-E03				
water gel	K04-E01				
Exposure to radiation in					

**F**

		of polymer fibre	A12-S05+ F02+	growth, general and other	B04-H06 C04-H06
		physical characteristics of	F02-G01	HGF	B04-H06K
		pile	F02-G03	IGF	C04-H06K B04-H06H
		pile, net or gauze-like	A12-S05J	LIF	C04-H06H B04-H09
		pill resistant - see under			C04-H09
		Fibres		MDGF	B04-H06C C04-H06C
		polymer coating on glass	A12-B05	metabolic	B04-B04J B04-H01
		polymer coating on other	A12-B02 A12-G+		C04-B04J C04-H01
		printing	A11-C04A A12-S05Q F03-F+	NGF	B04-H06D C04-H06D
		processes	A11-C05+	PAF	B04-H14 C04-H14
		processing aid	F03-C05	PDGF	B04-H06B C04-H06B
		production weaving	A11-C05A F02-A04+	PGF	B04-H06J C04-H06J
		production, knitting	A11-C05A F02-B03+ F04-F+	SCF	B04-H16 C04-H16
		products manufacturing	F03-E02	TGF	B04-H06F C04-H06F
		recycling	A12-S08F	TNF	B04-H08 C04-H08
		reinforced plastics		Faeces	B04-B04B B04-B04B2 C04-B04B C04-B04B2
		reinforced solid material		Falling dart impact strength	A09-A05A
		design for	F03-D04	Falmerene	B05-U02 E05-U02
		repellent or retardent,		False twisted fibres	A12-S05C F01-E04 F01-E01A
		general	A12-G+ A12-S05R F03-C02+ F03-B F03-A02 F03-K03 F03-A D11-B15 D11-D07C2 F03-C05 F02-G04 A11-C05A F02+ F03-K02	conjugate	F01-E04 F01-E01A
		scouring		False twisting of fibres	A11-B02D F01-H04B F01-H01
		setting		non-crimping	
		severing		Fan blades	A12-H
		shearing		Fancy goods	A12-F
		softeners		Fancy yarns	A12-S05E F01-E
		softeners and detergents		Farming	A12-W04+
		stretch		see also CPI Section 'C'	
		synthetic production		Fascia, vehicle	A12-T04B
		testing		Fasciola treatment	B12-B06 B14-B03 C12-B06 C14-B03
		treatment - see above		Fast dyes for polymers	F03-F19
		under chemical or		Fast fission reactors	K05-A01
		mechanical		Fasteners, fastenings	
		waterproofing - see		clothing	A12-C03 F04-C04 F04-F01 M21-G
		under Fibres		manufacture	
		winding up	F03-K01 A12-S05F F02-A03+	others (mechanical engineering)	A12-H12
		woven		Fatigue combatting	B12-C06 B14-J01A C12-C06 C14-J01A
		Face wash	D08-B09A2		
		Liquid	D08-B09A2A		
		Solid	D08-B09A2B		
		Factors			
		blood	B04-B04D3 C04-B04D3		
		blood (general)	B04-H01 C04-H01		
		clotting	B04-H19 C04-H19		
		EGF	B04-H06A C04-H06A		
		factor IV (calcium)	B05-A01B C05-A01B		
		factors I to III	B04-H19 C04-H19		
		factors V to XIII	B04-H19 C04-H19		
		FGF	B04-H06G C04-H06G		
Fabric					
melt blowing	A11-C05A1				
Fabrics					
sizes	A12-G04				
Fabrics - see also Fibres and					
Textiles					
ageing resistance					
improvements	F03-C07				
analysis	F03-K02				
apparatus for chemical					
treatment	F03-C01				
biological repellents,					
non-resinous	A12-S05R F03-C02B				
biological repellents,					
resinous	A12-G F03-C02B				
bleaching	A11-A01+ F03-B01				
calendering	A11-B03 F03-A01				
chemical treatment	A12-G+ A12-S05+ F03-C+				
crease resistant finish -					
see under Fibres					
crepe	F02-G02				
cutting	F03-K03				
decorating	F03-H				
deodorising	F03-C09				
dye receptiveness					
improvement	A08-M01A F03-C06				
dyeing other substrates	A12-S05P F03-F+				
dyeing polyester,					
polyamide or cellulosic	A12-S05N F03-F+				
flame retardant finish -					
see under Fibres					
foam use in	A12-S04D				
foamback (clothing)	A12-C01				
general	A12-G+ A12-S05+				
glass, polymer coating on	A12-B05				
handling	F03-K01				
identification	F03-K01				
inspection	F03-K02				
joining	F03-K				
knitted	A12-S05H F02-B02				
laundering	F03-J+				
laying	F03-K01				
lubricant finish	A12-S05S D11-B15 F03-C05				
marketing	F03-K				
mechanical treatment	A12-S05U F03-A+				
mercerising	F03-B				
non-woven	A12-S05G F02-C01				
non-woven pile fabrics	F02-C01A				
non-woven self-bonded	F02-C01B1				
non-woven, polymer-					
bonded	A12-B02B				
odorising	F03-C09				

Fats	B04-B01B C04-B01B D03-C D10-A D10-B D03-C02 D03-C02	using oxidases using oxidoreductases using oxygenases using peroxidases	B11-A02A1 C11-A02A1 B11-A02A C11-A02A B11-A02A3 C11-A02A3 B11-A02A2 C11-A02A2	treatment, production treatment, steel alloys	M27-B01 M27-B04
cooking (solid) spreads	D03-C02 D03-C02			Ferrous metals changing physical properties control/testing	M24-D M24-E
Fatty acids	D10-B			Fertiliser	
Monounsaturated fatty acid	B10-C04E3 C10-C04E3	using proteases/peptide hydrolases	B11-A02C3 C11-A02C3	containing polymers general inorganic	A12-W04B C14-T C12-N09 C14-T03 C12-N10 C14-T04 C14-T05
Polyunsaturated fatty acid	B10-C04E2 C10-C04E2	using reverse transcriptases	B11-A02B2	other	C14-T05
Saturated fatty acid	B10-C04E5 C10-C04E5		C11-A02B2	trace element	C14-T05
Feathers (or extract)	B04-B04E C04-B04E	using transferases	B11-A02B C11-A02B	Fertiliser mixtures containing P-acid (salt) and N compounds	C05-B02A4 C05-B02A5
Febrifuge	B12-D08 B14-C04 C12-D08 C14-C04	using microorganisms using bacteria	B11-A01 C11-A01 B11-A01A C11-A01A B11-A01C C11-A01C	P-acid (salt), and no N Fettling castings Fever inducing	M22-G03H B14-C05 C14-C05
Feed devices for knitting machines	F02-B04	using fungi using viruses	B11-A01B C11-A01B	Fibre reinforced material, adhesion improving agents for	A08-M01+ F01-H06B M22-G03K
Feed of workpiece to sewing machine	F02-F01B2	Fermentation tests	B11-C08E1 C11-C08E1	metal, by casting method metal, by powder metallurgy	M22-H03D M24-D06 M29-D
Feeding of slivers	F01-F04	Fermentation vessels automated mixing devices	D05-A03 D05-A03B D05-A03B	metal, ferrous metal, non-ferrous plastics production using moulds/extrusion polymers	A11-B09C A12-S08+
Feeding polymer to processing	A11-A	Fermented foods	D05-A04D	solid materials, fabric designed for	F03-D04
Felt pens	A12-D05B	Fermented solution, distillation of	D05-D	Fibreballs	F01-E09A
Felt, polymer coating on	A12-B02+	Fermented tea	D03-D02D	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
Felting to give non-woven fabric	F02-C02C	Fermium compounds	B05-A04 C05-A04 E35-R E05-Q	production	F01-E09A
Felts	A12-S05G F02-C01	Ferns	B04-A08B C04-A08B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
FEP	A04-E09 A04-E10D	Ferric chloride catalyst for polymerisation	A02-A04 A02-A07+	Fibreballs	F01-E09A
Fermentation apparatus	D05-A03	Ferric, ferrous compounds - see also Iron		Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
Fermentation processes	B11-A C11-A D05-A D05-B D05-C E11-M J09-C01B B11-A02 C11-A02	Ferricyanides (inorganic)	B05-A03A C05-A03A E32-B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using enzymes	B11-A02 C11-A02	Ferrite magnetic compositions barium containing non-barium containing	L03-B02B1 L03-B02B2	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using dehydrogenases, reductases	B11-A02A4 C11-A02A4	Ferrocyanides (inorganic)	B05-A03A C05-A03A E32-B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using DNA/RNA polymerases	B11-A02B1 C11-A02B1	Ferroelastic ceramics materials	L02-G07B L02-G09B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using esterases	B11-A02C1 C11-A02C1	Ferroelectric ceramics materials	L02-G07B L03-G09B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using glycosidases	B11-A02C2 C11-A02C2	Ferrous alloys	M27-A M27-A03 M27-A02 M27-A01 M27-A04 M27-B M27-B03	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using hydrolases	B11-A02C C11-A02C	cast iron alloys master alloys production steel alloys treatment treatment, cast iron alloys	M27-A M27-A03 M27-A02 M27-A01 M27-A04 M27-B M27-B03	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using isomerases	B11-A02E C11-A02E			Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using kinases	B11-A02B3 C11-A02B3			Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using ligases	B11-A02F C11-A02F			Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using lipoxygenases	B11-A02A5 C11-A02A5			Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
using lyases	B11-A02D C11-A02D			Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07

crimped	A12-S05C F01-E04	shrink resistant finish - see crease resistant finish	Fillers	
crimped conjugate	F01-E01A	soil proofing - see oil proofing above	asbestos	A08-R02
crimping (general)	A11-B02D F01-H04+	staple	carbon	A08-R03+ G01-A11
elastic (spandex)	A12-S05D	tapered	cellulosic	A08-R07
false-twisting	A11-B02D F01-H01 F01-H04B	testing	general	A08-R01
fancy yarns	A12-S05E	textured	glass	A08-R04
finishing	F01-H06+	vegetable, chemical treatment	inorganic	A08-R+ G01-A+ A08-R05 G01-A12
flame retardant finish, non-resinous	A12-S05R F03-C03+	vegetable, mechanical treatment	metal	
flame retardant finish, resinous	A12-G01 F03-C03+	water proofing, non- resinous	other (not specified elsewhere)	A08-R
forming polyesters general	A05-E+ A12-S05+ F01+	water proofing, resinous	polymeric	A08-R08+
glass	L01-F03		reinforcing agents	A08-R+ A08-R06A
glass, formation, equipment for	L01-F03C		silica	G01-A06
glass, formation, nozzles for	L01-F03B		silicates	A08-R06B G01-A06
glass, post-forming of	L01-F03E		treatment of whiskers	G01-B+ A08-R09
glass, roving formation	L01-F03D	Fibrids	Filling bakery products after cooking	D01-A06
glass, surface treatment	L01-F03A	production		
grafting of monomer(s) on	A10-C03A	Fibrillating	Filling glass containers	L01-J03
gypsum	L02-C05		Fillings, dental	A12-V02B D08-A01
heat setting	A11-B02C F01-H05	Fibrils		
hollow	A12-S05A F01-E03	Fibrin	Film	A12-S06+
insect repellent, non- resinous	A12-S05R F03-C02B	Fibrinase	base, photographic	A12-L01
insect repellent, resinous	A12-G F03-C02B	Fibrinogen	carrier for adhesives	G03-B04
mechanical finishing (general)	F01-H+	Fibrinogenase	casting process	A11-B04C
metal production	M22-H01	Fibrinogenase	containing polymer coatings	A12-B07A
mineral, mechanical treatment	F01-A03	Fibrinolysin	extrusion of	A11-B07A
mineral, preparation	L02-B08		formation by bubble methods	A11-B07A A12-S06A
mineral, products	L02-D11	Fibrinolytic	forming (i.e. shaping of)	A11-B08+
monofils	A12-S05E F01-E05		forming (Langmuir-Blodgett)	J04-X02 A05-E+
non-circular	A12-S05A F01-E02	Fibrous cellulosic suspension, production of articles from	forming polyesters	
non-iron finish - see crease resistant finish		Fibrous fillers, reinforcing agents	heat sealing/welding involving	A11-C01A1 A12-S06B
oil proofing, non-resinous	A12-S05R F03-C02	Fibrous webs, bonding to give non-woven fabrics	laminates, polymer on polymer	A12-S06C1
oil proofing, resinous	A12-G03 F03-C02	Field effect transistors junction type (JFET)	laminating	A11-B09A2 A11-B09D
optical	A12-L03A F04-G01	metal oxide, semiconductor type (MOSFET)	laminating, by extrusion	A11-B07A
physical characteristics, others	F01-E+	Filament winding for FRP	lithographic	G06-D02
pill resistant - see crease resistant finish		Filaments of polymers	non-cellulosic polymeric, in paper making	A12-W06A
polymer coatings on	A12-B02+	Filaments, artificial	of polymer blends	A12-S06D
polymeric in paper processes (textile)	A12-W06+	associated process in production	orientation	A11-B02A
production (general)	A11-C05+ A12-S05L	by spinning	packaging	A12-P01A
products other than in fabric form	F04-G+	Filariasis treatment	photographic	A12-L01
reactive dyes for polymers	A08-E03+ F03-F19		polymeric	A12-S06+
			polymeric in paper	A12-W06+
			slitting or splitting to fibres	A11-B02 F01-C05
			treatment	A12-S06B
			tubular, production	A11-B07A A12-S06A
			welding	A11-C01A1 A12-S06B
			X-ray	G06-D01
			Films of	
			polyamide	A05-F01E3
			polyester	A05-E01D3
			polyethylene	A04-G02E2
			polypropylene	A04-G03E1

saturated polyester	A05-E01D3	windows	L02-D15	Flakes	E12-A14
Filtering		Fire-retardants - see		Flaking, detergents	D11-D03
devices for liquids	J01-F02D	fireproofers above		Flame (plasma) spraying	
engine exhaust gases	H06-C04A	fireclay refractories	L02-E02	refractories and ceramics	L02-A06
for removal of specific		Fired clay, polymer coated on	A12-B08	Flame cutting and scarfing	M23-C
substances	J01-F04X	Firelighters	H09-F	Flame laminating of fabrics	F03-D02
materials	J01-H02	Fireproof		Flame polishing	A11-C04
molten metal	M22-G03G	coating compositions	G02-A05D	Flame proofers	A08-F+
molten metal, iron or		compositions	A12-G01	Flame proofing of wood	F05-B
steel (or alloy)	M24-A05		A12-W12	Flame retardance of polymers	A09-A01
	M24-C		F03-C03+	Flame retardants	A08-F+
molten metal, non-			G04-B06	additives	A08-F+
ferrous (or alloy)	M25-F	Fireproofers	A08-F+	aluminium hydroxide	A08-F05
	M25-J	for fabrics, non-resinous	A12-S05R	antimony containing	A08-F02
water	D04-A01E		F03-C03+	for electrical devices	L03-J03
	D04-A01F	for fabrics, resinous	A12-G01	general	A08-F01
Filters	A12-H04		F03-C03+	halogen containing	A08-F04+
gas	F04-E05+	Fireworks	K04-C	halogen containing, non-	
waste gas	J01-G03	Firing ceramics and refractories	L02-A04	polymeric (cyclo)aliphatic	A08-F04C
air inflow	J01-G03C	Fish		halogen containing, non-	
gravity	J01-F02A	animal feeds from	D03-G05	polymeric aromatic/	
LCD	L03-G05B7A	cells	B04-F07D	heterocyclic	A08-F04B
liquid, with mobile element	J01-F02C		C04-F07D	halogen containing,	
micro	J01-C04	degutting	D02-A02	polymeric	A08-F04A
nano	J01-C04	extracts	D02-A03A	others (specific)	A08-F
optical	A12-L03D	flakes	D02-A03A	phosphorus containing	A08-F03
photographic	G06-A02	meal	D02-A03A	textile finishes, non-	
regeneration	J01-H01	pastes	D02-A03A	resinous	A12-S05R
	J01-G03A	processing	D02-A		F03-C03+
ultra	A12-W11A	products	D02-A03	textile finishes, resinous	A12-G01
	J01-F02A	products, preservation	D03-A02		F03-C03+
	J01-C04	repellents	B12-N06	Flame spraying	
Filtration			B14-B13	coating with polymer by	A11-B05B1
in tests	B11-C08D3		C12-N06	metal	M13-C
	C11-C08D3		C14-B13	Flame treatment of polymer	
of gases	J01-G03	residues removal from		surfaces	A11-C04
of liquids	J01-F02	waste water	D04-B04	Flame welding	M23-B
of water for purification	D04-A01E	roe	B04-B04N2	torches, burners, gas	
	D04-A01F		C04-B04N2	supply	M23-B01
	D04-B10		D02-A03A	Flame-proofing fabrics	A12-G01
purification of polymers	A10-G01+	waste, protein recovery from	D03-F04		A12-S05R
separation in petroleum		whole, processing	D02-A02		F03-C03+
processing	H02-D04	Fishing	A12-F01	Flammability properties	A09-A01
Fine particle structure of		lines	A12-F01	Flanges of pipes	A12-H02C
polymers	A12-S09+	nets	A12-P07	Flanging sheet metal	M21-E01
Finely divided solid		rods	A12-W04	Flash	
surfactants for polymers	A08-S+		A12-F01	spinning	A11-C05C1
Finger nails, false	A12-V04	Fishing tools (drilling		Flash evaporation	A10-G01+
	D08-B01	equipment)	H01-B07	Flash extrusion of e.g.	
Finishing of		Fittings		plexifilaments	F01-C07B
fibres, yarns	F01-H06+	building	A12-R02+	Flat glass formation	L01-D
polymers	A11-C+	for hoses	A12-H02C	Flat platens, pressing between	A11-B13
Finned tube production	M21-C	for pipes	A12-H02C	Flattening agents	A08-E
Fire detectors, alarms	A12-R02	for tubes	A12-H02C	inorganic	A08-E02
Fire extinguishing compositions	A12-W12	Fixed enzyme processes,		organic	A08-E03C
	K01-A	general	D05-A01C	Flattening monofilms by	
Fire extinguishing of oil wells		Fixing biological substances	A12-W11L	calendering	A11-B03
by capping	H01-G02	to a carrier	D05-H10	Flatulence treatment	B12-J03
using explosives	H01-G01	Fixing devices for dentures	D08-A03		B14-E03
fire retardant material	H01-G03	Fixing processor rollers,			C12-J03
Fire resistant boards, blocks,		electrophotographic	G06-G08C		C14-E03
blankets	L02-D15A	Fixing, photographic			
materials	L02-D15A1	black and white silver			
Fire-fighting compositions	A12-W12	halide	G06-G02		
	K01-A	colour	G06-G12		
Fire-resistant walls and		Fixtures, building	A12-R02+		



Flavouring agents	B12-J01 B14-E11 C12-J01 C14-E11	Flowers and flower parts excluding pollen	B04-A09B C04-A09B	Fluorinated polymers ethylene propylene copolymer	A10-E04A A04-E09 A04-E10D
chemical special form natural	D03-H01B D03-H01D D03-H01C	Flue dust metal extraction ferrous non-ferrous	M24-A07A M25-E	Fluorination	A10-E04A
Flaw, detection compositions	G04-B09	Fluid conduction, tubes for	A12-H02+	Fluorine catalysts	N04-D
Flexible foams	A12-S+	Fluid detergent compositions	D11-D07 D11-D07D	Fluorine containing ether, monoolefinic (co)polymers	A04-E10C
Flexible sheet for thermal and acoustic insulation	A12-R06 F04-E06 L02-D15C	laundry detergents with bleach (stain removers)	D11-D07C3	inorganic compounds, removal from water	D04-B07E
Flexographic printing plates	A12-W07C G05-A02	laundry detergents with special use	D11-D07C	monoolefinic (co)polymers	A04-E10+
Flints	K04-B02	Light duty liquid laundry detergents	D11-D07B	resin fibres, chemical features of	F01-D10
Float glass baths bath chambers glass treatment in baths	L01-D03 L01-D03A L01-D03B	soap type (hand washing compositions)	D11-D07F	Fluorine or derivatives - see also Halogen or derivatives	
Float glass production	L01-D03	Fluid jets, entangling non- woven fabric	F02-C02+	Fluoro - see also Halo	
Float glass thickness control	L01-D03C	Fluidised bed coating by	A11-B05A	Fluoroacrylates (co)polymers	A04-E10D A01-D10 A01-D12
Floats, foam use in	A12-S04E	heat treatment of iron and steel	M24-D02C J04-X03A	Fluorocarbon fibres, chemical features	F01-D10
Flocculants acrylic for pollution control	A12-M01 A12-W11E D04-A01B D04-B10	reactor	J04-X03A	Fluorocarbon polymer membranes for electrolysis	A04-E+ J03-B03A
polymeric	A12-M+	Fluidising additives for concrete	L02-D14E	Fluorohydrogenated polymers	A10-E04
Flocculation of polymers sewage and water	A10-G01B D04-A01B D04-B09	Fluids, functional	A12-W02+ H08-D05	Fluorohydrogenation	A10-E04
Flocking, fibre polymer coating by	F03-D03 A11-B05B	Fluorene	B08-D03 C08-D03 E08-D03	Fluoroplasts	A04-E+
Flood lighting	A12-E11	Fluorescence tests	B11-C07B3 C11-C07B3 J04-C02C	Fluorosilicates	E31-P04
Flooding, well	A12-W10B H01-D06 H01-D06E H01-D06A H01-D06C H01-D06D H01-D06B	Fluorescent brighteners	D11-B01 E24-A E24-A04 E24-A02 E24-A04B E24-A02 E24-A04B E24-A03 E24-A04C E24-A01 E24-A04A	Fluorostyrenes (co)polymers monomer	A04-C A01-D02
Floor coverings (see also carpets)	F04-B02	Fluorescent ceramic oxides	L02-G10A	Fluorosulphonated polymers	A10-E12B
Flooring	A12-R03 L02-D09	Fluorescent compositions for screens	L03-C02B	Fluorosulphonation	A10-E12B
Floppy discs	A12-E08A2	Fluorescent dyes	E24-A E24-A05	Fluxes (polymer use)	A12-W12F
Floss, dental	A12-V04B D08-B08E	Fluorescent semiconductor compositions	L03-G	Fluxes for iron and steel melt treatment	M24-C07 M24-B01
Flotation extraction in metallurgy separation of solids water treatment	M25-A01B J01-K03 D04-A01L D04-B09	Fluorescent tracers bound to antibody or antigen	B11-C07A5 C11-C07A5	ironmaking non-ferrous metal production removing soldering steelmaking welding	M25-C D11-D01B2 M23-A02 M24-B02 M23-F
Flour additives	D01-B D01-B01	Fluoride, vinyl (co)polymers monomer	A04-E10A A01-D12	Flyer spinning	F01-G02
Flow mixers promoters	J02-A02A A08-M06	Fluoride, vinylidene (co)polymers monomer	A04-E10B A01-D12	Flywheels	A12-H
Flowers	B04-A07D5 C04-A07D5 A12-F B04-A10C C04-A10C	Fluorides	B05-C L02-H	Foam	A12-S+ B12-M11S C12-M11S E12-A10 A11-B05E A12-B07B
artificial extracts				coating process coatings on polymer compositions for dyeing/ printing fibres	F03-F26 A12-S02A D11-B08 A08-S03
				in-place polyurethane inhibitors, for detergents inhibitors, for polymer making equipment/process	A11-B06+
				polymeric polymeric, in paper making	A12-S+ A12- W06+
				polymeric, polyolefins polymeric, polystyrene	A12-S04A2 A12-S01+

polymeric, polyurethane promoter for detergents stabilisers (surfactants) for polymers thermosets	A12-S02+ D11-B08 A08-A07 A12-S03	Forged products	M21-K	Free radicals organic	B10-A01 C10-A01 E10-A01
Foamback carpets fabrics and garments	A12-D02 A12-C01	Forging metal sheets, wires, rods, tubes or profiles control devices equipment processes	M21-J M21-J03 M21-J02 M21-J01	polymerisation catalysts scavenger	A02-A03 B14-S08 C14-S08
Foamed adhesives, use of clay ferrous alloy fibres glass, manufacture metal (general) production non-ferrous alloy polymers - see also Expanded polymers silicate insulating material	A11-C01+ G03-B03 L02-B05 M24-D06 F01-E L01-F07 M22-G03K M29-D A12-S+ L02-D15	Forks	A12-D03	Freeze drying coffee tea	J08-F04 D03-D01B D03-D02B
Foaming agents	A08-B+	Formal, polyvinyl	A10-E02	Freezing apparatus food liquids and semiliquids spun fibres water treatment by	J07-C D03-H02A J07-B F01-C D04-A01C
Foaming polymers general involving extrusion involving moulding involving other specific methods to form specific goods with crosslinking	A11-B06 A11-B06B A11-B06C A11-B06D A11-B06A A11-C02D	Formaldehyde (co)polymers acetone polymer condensant toluene resin	E10-D01 A05-H02+ A05-J08 A01-E09 A05-J08	French polish	G02-B05
Fodder	A12-W04 D03-G	Formalin condensant	A01-E09	Frenolicin	B02-F C02-F
Foetus extracts	B04-B04H C04-B04H	Formamide	E10-D03C1	Fresnel lenses	A12-L02A
Foils carriers for adhesives metal, production polymer Foliar application	G03-B04 M21-A03B A12-S06+ C12-M13	Formic acid production use	E10-C04J E10-C04J1 E10-C04J1P E10-C04J1U	Friction coatings material	M13-K A12-H10 G04-B04 L02-G08 A12-H10 M23-E01 D03-H01U
Follicle stimulating hormones (FSH)	B04-B02D4 B04-J05H C04-B02D4 C04-J05H	Formica®	A12-A04A	Friedel-Crafts catalysts catalysts, for polymerisation crosslinking agents resins	N04-D01 A02-A04 A08-C+ A08-D+ A05-J
Food cellulose ether use in coated coatings on colorant (natural) colorant (synthetic) defrosting instant high calorie nuclear applications to packaging preservation	A12-W09 D03-H D03-J D03-K A03-A04A1 D03-H01S A12-B D03-H01E1 D03-H01E2 D03-K12 D03-H01L D03-H01T4 K09-D A12-P+ D03-H02	Forming by dipping fabrics from sheet or tube from sheet or tube, forming from tube or pipe from sheet or tube, forming of sheet or film (excluding by vacuum) from sheet or tube, general vacuum assisted forming sheet/film high energy rate paper polymers (general) pores (foaming polymers) sheet metal sheet, strip, tube vacuum type	A11-B04B F03-A01 A11-B08+ A11-B08C A11-B08B A11-B08+ A11-B08A M21-D F05-A05B A11-B+ A11-B06+ M21-E A11-B08+ A11-B08+	Frost protection concrete additives for plants	L02-D14C B12-P10 C12-P10 C14-T01C
Footballs	A12-F01B	Foundation garments	F04-C01	Froth flotation (extraction metallurgy)	M24-A01 M25-A01
Footpaths	A12-R09	Foundry cores, moulds	A12-A02	FRP	A12-S08+
Footwear production sports	A12-C04 F04-C05A F04-F02 A12-F01	Foundry moulding mould material handling/ dressing moulding compositions moulding machines moulds/cores patterns	M22-A M22-B M22-A01 M22-E M22-D M22-C	Fruit	B04-A09K C04-A09K
Forge welding	M23-E01	Foundry moulding mould material handling/ dressing moulding compositions moulding machines moulds/cores patterns	M22-A M22-B M22-A01 M22-E M22-D M22-C	Fruit drop treatment	B12-P03 C12-P03 C14-U01B
		Fountain pens	A12-D05B	Fruit extract	B04-A10K C04-A10K D03-H01G1
		Fourdrinier wires	F04-E05A	Fruit juice	D03-H01G1
		Fractional distillation	A10-G01+ B11-B C11-B D05-D	Fruit preservation	D03-A04
		Fracturing, well	A12-W10B H01-C03	Fruit setting agents	B12-P03 C12-P03 C14-U01B
		Frames, spectacle	A12-L03	Fruit thinning agents	B12-P03 C12-P03 C14-U01B
		Francium catalysts	N03-A	Fruit, machines for coring cutting peeling pulping	D03-J06 D03-J06 D03-J04 D03-J06
		Francium compounds inorganic organic	B05-A04 C05-A04 E35-Y E05-Q		

removing stones and pips	D03-J03	Fumarate, diallyl		Furnace design	J09-A
washing	D03-J05	(co)polymers	A04-A03	open sintering	J09-A04
Fruit products	D03-P	monomer	A01-B03	rotary	J09-A03
FSH (follicle stimulating hormone)	B04-B02D4 B04-J05H C04-B02D4 C04-J05H	Fumaric acid		stationary, with	
		(co)polymers	A04-F05	mechanically moved charge	J09-A02
		monomer/condensant	A01-D08	with stationary charge	J09-A01
			A01-E12	Furnace furniture for	
Fuel	A12-T03+	Fumaric ester		semiconductor processing	
as briquettes	H09-F01	(co)polymers	A04-F07	- including boats, racks,	
oils	H06-B05	condensant	A01-E12	crucibles, wafer supports etc.	L04-D09
emulsion	H06-B09	monomer	A01-D10	Furnaces for	
filtration	J01-F04X4	Functional fluids		calcining ceramic raw	
production	H06-P		A12-W02+	material (rotary)	L02-A02
propellants, explosives	A12-T03+	polymeric additives	H08-D05	cement clinker (rotary)	L02-C02
rocket	A12-T03C		A12-W02A	glass	L01-C
	K04-C01	Fungi		glass, construction and	
recycling	H06-X03		B04-B02B2	design	L01-C02
separation	H06-X02	Mushroom extracts	C04-B02B2	glass, control and operation	L01-C03
treatment	H06-X01		D05-H05	heat treatment of	
combustion exhaust	H06-C+	Mushrooms (whole)	B04-A10A	ferrous metals	M24-D04
treatment			C04-A10A	heat treatment of non-	
		Pichia pastoris	B04-A08D	ferrous metals	M29-C02
Fuel additives	A12-T03+		C04-A08D	heat treatment of	
	H06-D	recombinant	B04-F09D	semiconductors	
methacrylate copolymer in	A04-F06E3	Toadstools (whole)	C04-F09D	metal casting	L04-D05
petroleum fuel	A12-T03B		D05-H14A2	metal working	M22-G03G
production	H06-P	unicellular	B04-A08D	sintering ceramics,	M21-N04
rocket fuel	A12-T03C		C04-A08D	refractories	
		yeast	B04-F09		L02-A04
Fuel cells (electrical)	A12-E06+		C04-F09	Furnishings	A12-D01
	L03-E04	Fungicides		foam use in	F04-D+
alkaline	L03-E04D		B12-A02C		A12-S04D
bio	L03-E04K	fabric treatment	C12-A02C	Furniture	A12-D01
component production	L03-E04H+		A12-S05R	foam use in	A12-S04D
electrodes	A12-E06A	general	F03-C02B	Fused and Cast refractories	L02-E08
	L03-E04B		B14-A04	Fuses (detonators)	K04-B01
flow field plate	L03-E04L	photographic	C14-A04	Fuses, electrical	A12-E07
fuel storage for	J06-B06A	polymer additives	G06-H02		L03-B04D
hydrogen generation	L03-E04I	use of polymers	A08-M02	Fuses, semiconductor	L04-C10A1
hydrocarbon based	H08-E04	wood treatment	A12-W04C	Fusidic acid	B02-F
hydrogen oxygen	L03-E04F	Fungistat see Fungicides	F05-B01		C02-F
Molten carbonate	L03-E04C	Fur, artificial		Fusing mechanisms	K03-A03
Phosphoric acid	L03-E04E	Furan resins	F04-B03	Fusing of glass to	
separators	L03-E04G		A05-J	glass	L01-H03
solid oxide electrolyte	L03-E04A	Furans		non-glass (excluding	
storage for internal		(co)polymers	A05-H05	vitreous enamelling)	L01-H04
combustion	J06-B06B	condensants	A01-E08	Fusing process or rollers,	
testing	L03-E07	Furans (excluding		electrophotographic	G06-G08C
		tetrahydrofuran)		Fusion genes	D05-H12C
Fuel, nuclear	K05-B04		B07-A01	encoding altered fusion	
chemical production	K05-B04A	Furfural	C07-A01	protein	B04-E02H
element construction	K05-B04B	condensants	E07-A01	encoding wild-type fusion	
recovery, reprocessing	K06-C	resins	A01-E10	protein	B04-E03H
storage	K05-B07B	Furfuraldehyde condensants	A05-J08	encoding altered fusion	
transport/storage containers	K07-A02A		A01-E10	protein	C04-E02H
		Furfuryl alcohol		encoding wild-type fusion	
Fuels		condensants	A01-E14	protein	C04-E03H
Liquid, derived from waste		derived resins	A05-J	Fusion proteins	B04-N08
polymer	H06-B06				C04-N08
Fullerenes	B05-U	Furnace accessories	J09-B		D05-H17C+
	E05-U	charge handling	J09-B02	Fusion reactors, controlled	
	L02-H04B	charge preheating and		plasma containment	K05-A03
Buckminsterfullerene	B05-U02	cooling	J09-B03	targets	K05-A03A
	E05-U02	constructional features	J09-B01		K05-A03B
containing carbon only	B05-U02	control and safety devices	J09-B04		
	E05-U02	Furnace black			
containing hetero atom(s)	B05-U01	filler	E31-N		
	E05-U01		A08-R03		
Falmerene	E05-U02				
Falmerenes	B05-U02				

**G**

G-protein coupled receptor	B04-K01Y C04-K01Y	holders of variable capacity J06-A lifting equipment (oil/gas production) H01-D02 liquefaction J07-D01 liquid mass transfer J01-A02 masks A12-C02 particle separation J01-G+ phase (co)polymerisation A10-B A10-C+ A10-D+	preparation H04-D preparation, catalysts H04-F02D
Gadolinium compounds	B05-A03B C05-A03B		Gasping solids J01-G05
catalysts	N03-A02B		Gastric disease treatment B14-E10B C14-E10B
inorganic	E34-E02B		
organic	E05-P	plating by decomposition or reduction M13-E	Gastric secretion depressants B12-J02 B14-E07 C12-J02 C14-E07
Galactomannan gums	A03-A+ B04-C02D C04-C02D D06-H	plating by decomposition or reduction, apparatus M13-E07 plating by decomposition or reduction, by glow or arc discharge M13-E05 plating by decomposition or reduction, by thermal decomposition or reduction of gases on heated surfaces M13-E06 plating by decomposition or reduction, post treatment of coatings M13-E08 plating by decomposition or reduction, pre-treatment of substrates M13-E04 plating by decomposition or reduction, to form inorganic coatings on metal M13-E02 plating by decomposition or reduction, to form metallic coatings M13-E01 plating by decomposition or reduction, to form organic coatings on metal M13-E03	stimulants B12-J01 B14-E11 C12-J01 C14-E11
Gall extracts	B04-B04H C04-B04H		Gastrin B04-J12 C04-J12
Gallium arsenide (semiconductors)	L04-A02A		Gastritis treatment B14-E10B C14-E10B
Gallium catalysts	N03-G04		Gastrointestinal dysfunction treatment B12-J01 B14-E10 C12-J01 C14-E10
Gallium compounds	B05-A01B C05-A01B		
inorganic	E35-F		Gastropodocides B12-N04 B14-B12 C12-N04 C14-B12
organic	E05-D		
Gallium phosphide (semiconductors)	L04-A02B		Gates A12-R02
Galvanising of metal	M13-A		Gathering lines (oil and gas) H03-A
Games equipment	A12-F01+		Gear wheel crimping of fibres F01-H04C
Gamma globulin	B04-B04A6 B04-G01 C04-B04A6 C04-G01		Gears A12-H03
Gamma ray detector	K08-A03		Gelatin A03-C01 B04-B04A6 B04-N02 C04-B04A6 C04-N02 D03-F G03-A
Ganglion blockers	B12-F03 B14-F01F C12-F03 C14-F01F	sensitive resistors L03-B01A4 sensors J04-C04A separation J01-E03 separation of dispersed particles from separation, by solidification or liquefaction J07-D02 J01-E02B1 J01-E03C1 solvents J06-B06 sorbent for storage J06-B06C vessels for J06-B	Gelation inhibitors A08-C06 A08-D+
Ganglioplegics	B12-F03 C12-F03		Gelled food products D03-H01J
Gangliosides (no structure)	B04-B01B C04-B01B		Gelling agents A08-M06
Gap fillers for magnetic heads	L03-B05N		Gels A12-S B12-M02 C12-M02 E12-B08 D08-B08C D08-B14C
Garbage fermentation	D05-A04A		teeth cleaning teeth whitening
Gardening	A12-W04+		
Garments	A12-C+ A12-C03 F04-C+ F04-C04 F04-C F04-F01	Gaseous blowing agents process A08-B04 A11-B06+	Gels/hydrogels B12-M02G C12-M02G
fastenings			
linings		Gaseous etching of metal, compositions M14-A03	
manufacture			
Garnets	L03-B02B3		Gemstones, artificial L02-G08
Gas		Gaseous fuel based on petroleum or natural gas H06-A solid carbonaceous material H09-C	Gene analysis B11-C08F C11-C08F
attack compositions	K04-C		
blowing agents for polymers	A08-B04	Gaseous lubricants H07-E	Gene delivery methods B12-M19 C12-M19 B12-M19B C12-M19B B12-M19A C12-M19A
chromatography	J01-E03A		by non-viral methods
cooled reactors	K05-A02A		by viral methods
discharge from pressure vessels	J06-B04	Gasification of liquids J01-D02 petroleum feedstock H04-E04 solid carbonaceous materials H09-C	
discharge from vessels not under pressure	J06-B05		
drying	J01-E01	Gaskets A12-H08	Gene libraries B11-C10C C11-C10C
drying of solids	J08-H01		
filling of pressure vessels	J06-B03	Gasoline	Gene therapy B14-S03A C14-S03A
generation (for blasting or propulsion)	K04-C02	as product, including additives H06-B01	

General chemical process	B11-C01 C11-C01	Spleen extract	B04-B04G C04-B04G	Glass sheet	
Other reactions	B11-C01C C11-C01C	Glass	L01	coatings of inorganic material	L01-G04C
Stereo-selective reactions	B11-C01C2 C11-C01C2	applications	L01-L	coatings of metallic material	L01-G04C1
Stereo-specific reactions	B11-C01C1 C11-C01C1	batch, components preparation	L01-B01	coatings with organic (plastic) material	L01-G04B
Generation of electricity		batch, handling, mixing preparation, pre-treatment	L01-B	manufacture by sol-gel process	L01-D05
electro-(in)organic use in	L03-H01	bending of	L01-G10	wire reinforced	L01-D04
Generators of electricity	A12-E08B L03-E05	bottle coating	L01-G04A	Glass (non-sheet)	L01-G04G
Genetic disorder diagnosis	B12-K04A3 C12-K04A3	bound to antigen or antibody	B11-C07A6 C11-C07A6 D05-A01A5	coatings of inorganic material	L01-G04G2
Genetic engineering	A12-W11L D05-H	bound to enzyme	D11-D01A	coatings of metallic material	L01-G04G3
biological materials used in	D05-H19	ceramic seals	L01-H04B D11-D01C	coatings with organic (plastic) material	L01-G04G1
nucleic acid amplification	D05-H18B	cleaners	L01-G11	Glass-ceramics	L02-J02A
DNA sequencing method	D05-H18A	compositions	L01-A	applications	L01-K03
new methods	D05-H18	encapsulation of semiconductors	L04-C20B	compositions	L01-A08
restriction enzymes used for	D05-H19A	etching	L01-G05C	manufacture	L01-K02
Genomics	B11-C08F+ C11-C08F+	fillers, reinforcing agents	A08-R04	Glass/ceramic composites	L02-J02A
Gentamycin	B02-G C02-G	film deposition in optical fibre manufacture	L01-F03F3	Glasses (spectacles)	A12-L02A A12-V02A
Geological and geophysical exploration	H01-A01	finished product handling	L01-J	Glasses	
Geothermal heat transfer	J08-D07	flakes, powders or microspheres	A08-R04	Metal coatings, processes	M13-F03B
Geriatric treatment	B12-G04A B14-J01A4 C12-G04A C14-J01A4	flat, manufacture	L01-D	Glasshouses	A12-W04A
Germ cells	B04-F03 C04-F03	foamed	L01-F07	Glassy metals	
Germanium catalyts production	N03-G02 M25-G12	furnaces for	L01-C	Compositions	M26-C01
Germanium compounds	B05-A02 C05-A02	heat treatment	L01-G02	Production	M22-G03M1
inorganic	E35-G	hollow ware manufacture	L01-E	Glaucoma treatment	B12-L04 B14-N03A C12-L04 C14-N03A
organic	E05-F02A	laminates	L01-H02	Glazes	L01-H08
Germicides	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01 D09-A01	layer formation by vapour deposition	L01-F06	Glazing	
for fabrics	F03-C02B	manufacture, general	L01-C	in building	A12-R04 L01-L01
for paints	G02-A03B	manufacture, general, by sol-gel process	L01-C06	in vehicles	A12-T04A L01-L02
for wood	F05-B01	metal seals	L01-H04A	Glazing ceramics, refractories or concrete	L02-A07
Gibberellic acids	B04-B02A C04-B02A	micro-beads	L01-F04	Globulin	B04-B04A6 B04-N02 C04-B04A6 C04-N02
Gibberellins	B04-B02A C04-B02A	passivating layers for semiconductors	L04-C12D	Glomerulonephritis	B14-N10 C14-N10
Gingivitis treatment	B12-L04 B14-N06B C12-L04 C14-N06B	patterning	L01-G05B	Glomerulonephro- pathy	B14-N10 C14-N10
Ginning	F01-A02	photographic supports	G06-B	Gloves	A12-C03 F04-C05 A12-C02A D09-C K07-A02
Gland extract	B04-B04G C04-B04G	polishing	L01-G06	protective	B04-J03B C04-J03B
Gastric juices	B04-B04G C04-B04G	polishing	L01-G06	Glucagon	B04-J03B C04-J03B
Snake venom	B04-B04G	polymer coatings on	A12-B05 L01-G04B	Glucose	B10-A07 C10-A07 D06-G E10-A07
		polymer use in	A12-W12G	Glue	A12-A+ G03-A
		rod and sheet manufacture		Glueing of polymers	A11-C01+
		rod, tube manufacture	L01-F03F4	Glutamic acid condensants	A01-E04
		recycling	L01-L02		
		shaping to special form	L01-F02		
		solders	L01-F04		
		soot deposition for optical fibre manufacture	L01-F03F2		
		soot manufacture	L01-F03F2		
		Glass coatings	G02-A05K L01-G04		
		techniques	L01-G04F		
		Glass fabric reinforced plastics	A12-S08F		
		Glass fibre			
		chemical features	F01-D09B		
		dyeing/printing	F03-F12		
		polymer coating on production	A12-B05 F01-C07E		
		reinforced plastics	A12-S08B		
		reinforcing agents	A08-R04		

Glutaric condensants	A01-E12	Glycolysed/ glycolysis of polymers	A10-E09+	Granulating detergents	D11-D03
Glutathione	B04-C01A B10-B02D C04-C01A C10-B02D	Glycosidase agonists	B14-L01A3 C14-L01A3	Granulation	A11-A04 J04-A05 A11-C03A
Gluten	B04-B04A4 B04-N01 C04-B04A4 C04-N01	inhibitors	B14-D07B C14-D07B	scrap recovery by	A11-C03A
Gluten free dietary foods	D03-H01T5	Glycosides (structure unknown)	B04-A07E C04-A07E	Granules	B12-M11D C12-M11D A11-A02A A12-S09+
Glycerine - see glycerol		Glycosides as surfactants	D11-A03B	(pre)heating of polymers	A12-S09+
Glycerol	E10-E04H1	Glyptal resins	A05-E08	Graphic arts masking	G06-E02
condensants	A01-E14	Gob (glass) formation	L01-F02	Graphite	E31-N G01-A11 L02-H04
derived polyether plasticisers	A05-H A08-P	Goggles	A12-C02	electrodes for arc melting	L03-A02
Glycidol condensants	A01-E07 A01-E14	Gold catalysts	N02-E N02-E04	electrodes for batteries	L03-E01B3
Glycidoxypropyltrimethoxy silane adhesion improver	A08-M01D	Gold compounds	B05-A03B C05-A03B E35-B E05-N E05-N03B	fibres, chemical features of or production	F01-D09A
Glycidyl		inorganic		fibres, filler/reinforcing agents	A08-R03A
acrylate, (co)polymers	A04-F06+ A05-A04	organic	E05-N03B	non-fibrous filler/ reinforcing agents	A08-R03
acrylate, condensants	A01-E07	Gold production	M25-G20	Graphitisation of carbon fibres of polymers	E31-N02 A10-E05B
acrylate, monomers	A01-D10B	Golf equipment	A12-F01+	Grass	B04-A07D4 B04-A08C2 C04-A07D4 C04-A08C2
acrylic esters, (co)polymers	A04-F06+ A05-A04	1,4-Gonadienes	B01-B03 C01-B03	Gravel packing (well treatment)	H01-C08
acrylic esters, condensants	A01-E07	Gonadienes (two ring "A" double bonds other than 1,4)	B01-B04 C01-B04	Gravity filters	J01-F02A
acrylic esters, monomers	A01-D10B	Gonadotropin-releasing hormone	B04-J07 C04-J07	separation of particles from gases	J01-G02
allyl ether monomer/ condensant	A01-D11 A01-E07	Gonanes (saturated ring "A")	B01-D02 C01-D02	Gravure printing plates	G05-A03
alpha-chloroacrylate, (co)polymers	A04-E A05-A04	Gonorrhea treatment	B12-A05 B14-A01A5 C12-A05 C14-A01A5	Greases	A12-W02+ H07-C
alpha-chloroacrylate, condensants	A01-E07	Gout treatment	B12-G03 B14-C02 C12-G03 C14-C02	Green chemistry	B14-Y C14-Y E11-K03
alpha-chloroacrylate, monomers	A01-D10	Gowns, surgical	A12-V03C1 D09-C04D	Green food technology	D03-K13
compound epoxy resins	A05-A+	GR-N	A04-B04	Green food packaging	D03-K08A
cyanoacrylate, (co)polymers	A04-D A05-A04	GR-S	A04-B03+	Green sensitive (electro)- photographic layers	G06-C14C
cyanoacrylate, condensants	A01-E07	Grading devices for food	D03-K02	Greenhouses	A12-W04A
cyanoacrylate, monomers	A01-D04 A01-D10	Graft copolymerisation by irradiation, bulk or solution	A10-C03+	Greying inhibitors for detergents (excluding bleaching agent)	D11-B05
ethers of alcohols (epoxy resins)	A05-A03	in emulsion/suspension onto formed substrates	A10-C03C A10-C03B A10-C03A	Grinding	J02-B D03-D01C D03-K G01-B01 A11-A04 D03-D02C
ethers of phenols (epoxy resins)	A05-A02	Graft rejection inhibitor	B14-G02C C14-G02C	coffee	D03-D01C
methacrylate, (co)polymers	A04-F06+ A05-A04	Grain (cereal)	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	food	D03-K
methacrylate, condensants	A01-E07	Grain (cereal), machines for treating	D03-J01	pigments/fillers	G01-B01
methacrylate, monomers	A01-D10B	Grains of polymers	A12-S09+	polymers	A11-A04
Glycogenic	B12-J01 B14-E11 C12-J01 C14-E11	Gramophone records	A12-W01+	tea	D03-D02C
Glycol		Granular (co)polymerisation	A10-B05	Grinding wheels, grindstones	A12-A03
condensants	A01-E14	Granular laundry detergent	D11-D08	Griseofulvin	B02-G C02-G
di(meth)acrylate, (co)polymers	A04-B09			Ground	
di(meth)acrylate, monomer	A01-C01			consolidation	A12-A02
ethylene	E10-E04H1			consolidation, in mining vehicles	A12-W10C A12-T+
ethylene, condensant	A01-E14			Ground polymers	A12-S09A
Glycolides derived saturated polyester	A05-E02			Grounds, sports	A12-F01A
Glycolipid	B04-B01B C04-B01B				

Grouts, grouting compositions A12-R08  
L02-D01  
L02-D12

Growth hormone (GH) B04-B02D4  
B04-J05  
C04-B02D4  
C04-J05

Growth hormone-releasing hormone/factor B04-J09  
C04-J09

Growth inhibitors (plants) B12-P09  
C12-P09  
C14-U01E

Growth media, artificial general B12-N08  
C12-N08  
C14-T01

Growth stimulant (plant) B12-P04  
C12-P04  
C14-U01C

GRP A12-S08B

Guanamine condensants A01-E01

Guanamines derived aminoplasts A05-B

Guanidine B10-A17  
C10-A17  
E10-A17  
E10-A17A  
E10-A17B

accelerators for crosslinking A08-C03  
A08-D03

condensants A01-E05

Guano B04-B04B  
B04-B04B2  
C04-B04B  
C04-B04B2

Guanosine B04-B03A  
C04-B03A

Guar gum A03-A+  
B04-C02D  
C04-C02D  
D06-H

Gum disease treatment B14-N06B  
C14-N06B

Gum removal (petroleum refining) H04-A04

Gums A03-A+  
A03-C02  
B04-C02D  
C04-C02D  
D06-H

Gunnable refractories L02-E05

Gut for racquets F04-G

Gutta percha A03-B

Guttering A12-R02

Gymnasium equipment A12-F01+

Gymnosperms B04-A08C1  
C04-A08C1  
B04-A08F+  
C04-A08F+

Gypsum  
board  
cement  
products

E34-D02  
A12-R01A  
L02-C05  
L02-D07A

## H

H1-secretion inhibitors B12-D06B  
B14-L10  
C12-D06B  
C14-L10

H2-secretion inhibitors B12-D06A  
B14-L11  
C12-D06A  
C14-L11

Hackling of fibres F01-F01

Hematinics B12-H01  
B14-F03  
C12-H01  
C14-F03

Hematopoietics B12-H01  
B14-F03  
C12-H01  
C14-F03

Hematosi treatment B12-H01  
B14-F03  
C12-H01  
C14-F03

Hemochromatosis treatment B12-H01  
B14-F03  
C12-H01  
C14-F03

Hemodialysis apparatus J01-C03B1  
A12-W11A

Hemoglobin B04-B04D2  
C04-B04D2

Hemolytics B12-H02  
B14-F04  
C12-H02  
C14-F04

Hemonchosis treatment B12-B02  
B14-B03A  
C12-B02  
C14-B03A

Hemorrhoids treatment B12-J04  
B14-E04  
C12-J04  
C14-E04

Hemostatics B12-H04  
B14-F08  
C12-H04  
C14-F08

Hafnium alloys production M26-B13  
M25-G28

Hafnium catalysts N03-B  
N03-B02  
for polymerisation A02-A06+

Hafnium compounds B05-A03B  
B05-A04  
C05-A03B  
C05-A04

inorganic E35-L  
E35-Q  
E35-R

organic E05-N  
E05-N01

Hair (or extracts) B04-B04E  
C04-B04E

artificial (e.g. wigs)	A12-V04 D08-B01 F04-G	Haloamines organic	B10-A02 C10-A02 E10-A02	chlorine bonded to aromatic ring	E10-H03C1 E10-H04C1
brushes	A12-V04A			chlorine linked to aromatic ring	B10-H02E C10-H02E E10-H02E
care compositions	A12-V04A D08-B	Haloarylated/haloarylation of polymers	A10-E03	chlorine only	E10-H03C E10-H03C2 E10-H03C3
conditioners	A12-V04A D08-B03B	Halochromic dye precursors	E26-B		E10-H03C4 E10-H03C5 E10-H04C E10-H04C2 E10-H04C3 E10-H04C4 E10-H04C5
dyeing preparations	A12-V04A D08-B06	Halogen Cl compound production	E31-B02D		
implanted	A12-V02	Cl element production	E31-B02B		
preparation for treating	B12-L05 B14-R02 C12-L05 C14-R02	element	B05-C07 C05-C07		
rinsing preparations	D08-B04	element production by electrical method	E31-B01		
shampoos	A12-V04A D08-B03	element production by non-electrical method	E31-B02		
sprays	A12-V04A D08-B05	element use	E31-B03	fluorine (others)	B10-H02B C10-H02B E10-H02B
waving, straightening or fixing preparations	D08-B05	F, Br, I compound production	E31-B02C	fluorine and chlorine only	E10-H03B E10-H03B1 E10-H03B2 E10-H04B E10-H04B1 E10-H04B2
Hairpieces	A12-V04 D08-B01 F04-G	F, Br, I element production halides (organic)	E31-B02A B10-A02 C10-A02 E10-A02		
Halates		oxides	B05-C07 C05-C07 E31-C	fluorine bonded to aromatic ring	E10-H03A1 E10-H04A1
Dihaloamines (organic)	B10-A02 C10-A02	oxyacid (or salt)	B05-C07 C05-C07 E31-C	fluorine linked to aromatic ring	B10-H02A C10-H02A E10-H02A E10-H03A E10-H03A2 E10-H03A3 E10-H04A E10-H04A2 E10-H04A3
inorganic	B05-C07 C05-C07 E31-C	Halogen catalysts	N04-D	fluorine only	B10-H02D C10-H02D E10-H02D
organic	B10-A02 C10-A02 E10-A02	Halogen free volatile blowing agents	A08-B04B		
Half tones	G06-E01	Halogen in ring, organic compound	E05-K		
Halides		Halogen or halogen generators as disinfectants other than of food or air	D09-A01A	iodine (others)	B10-H02C C10-H02C E10-H02C
Cl element production	E31-B02B	Halogen-containing addition polymer coatings (paint)	A12-B01F	iodine linked to aromatic ring	B10-H02C C10-H02C E10-H02C
F, Br, I compound production	E31-B02C B05-C07 C05-C07	addition polymer for coating metal	A12-B04E		
inorganic	E31-B02 E31-B03 B10-H02 C10-H02 E10-H02 E10-H03 E10-H04	aliphatic mono-unsaturated (excluding N) polymer flame retardants	A04-E+ A08-F04+	Halohydrocarbons, removal of	D04-B06E
inorganic production		Halogenated oils	B04-B01A C04-B01A	Halohydrogenated/ halohydrogenation of polymers	A10-E04
inorganic use		Halogenated waxes	B04-B01A C04-B01A	Halonium, organic compounds	B10-A01 C10-A01 E10-A01
organic		Halogenated/halogenation of polymers	A10-E04A	Haloprenes including chloroprene (co)polymers monomer	A04-B08 A01-C04
Halides (ceramic)	L02-H	Halogenation (process) for petroleum refining	H04-E14	Halosulphonated/ halosulphonation of polymers	A10-E12B
Halides of metal, catalysts for polymerisation	N04-D01 A02-A06B	Halohydrocarbon volatile blowing agents	A08-B04A	Hammering metal sheet, wire, rod tube, or profile control devices	M21-J M21-J03 M21-J02 M21-J01
Halides or oxyhalides of transition metals, catalysts		Halohydrocarbons containing bromine (others)	B10-H02D C10-H02D E10-H02D	Handbags	A12-T
Halites		bromine linked to aromatic ring	B10-H02C C10-H02C E10-H02C	Handkerchiefs	F04-C01
inorganic	B05-C07 C05-C07 E31-C	chlorine (others)	B10-H02F C10-H02F E10-H02F	Handles (packaging)	A12-P
organic	B10-A02 C10-A02 E10-A02				
Hall effect devices	L04-E07				
Halo-substituted styrenes (co)polymers	A04-C				
monomer	A01-D02				
Haloalkylated/ haloalkylation of polymers	A10-E03				



Handling of		special dietary requirements		apparatus	J08-D
glass, batches	L01-B		D03-H01T5	compositions	A12-W11G
glass, finished products	L01-J	Health physics	K07-X	fluids	G04-B01
glass, post-forming	L01-G01A	Heart disease treatment	B12-F01	from exhaust gases	J08-D08
polymers/plastics, moulded articles	A11-C06		B14-F01	geothermal	J08-D07
polymers/plastics, raw materials	A11-A		C12-F01	media	H08-D09
textile webs	F03-K01	Heart disorder diagnosis	C14-F01	modification in heat exchanger	J08-D06
Handrails	A12-R02		B12-K04A2		J08-D04
Hands, artificial	A12-V02		B12-K04G2B	Heat treatment	A11-A02+
	D09-C01D		C12-K04A2		A11-B02+
			C12-K04G2B	apparatus for ferrous metal	M24-D04
Hapten bound to enzyme	D05-A01A3	Heart extracts	B04-B04H	apparatus for ferrous metal, furnaces for ingots	M24-D04A
Haptens	B04-B04C7		C04-B04H	apparatus for non-ferrous metal	M29-C02
	C04-B04C7	Heart valves, artificial	A12-V02	apparatus for non-ferrous metal, furnaces for treating strip wire or sheet	M24-D04B
			D09-C01C	apparatus for non-ferrous metal, furnaces for treating strip wire or sheet	M24-D04B
Hard alloys based on carbide, nitride, boride or silicide	M26-B12	Hearth steel processing	M24-B02B	apparatus for non-ferrous metal, furnaces for treating strip wire or sheet	M24-D04B
Hard Candy	D03-E10A	Hearts, artificial	D09-C01C	apparatus for non-ferrous metal, furnaces, coilers	M24-D04C
Hard facing	M23-E03	Heat		apparatus for non-ferrous metal, other furnaces	M24-D04D
Hard surface cleaners	D11-D01B	collectors (polymer use)	A12-R02B	apparatus for non-ferrous metal, quenching baths	M24-D04E
Abrasive types	D11-D01B3	developable material for photosensitive systems	G06-C08	furnaces for semiconductor manufacture	L04-D05
Household (other)	D11-D01B5	electrical use	A12-E10		
Industrial	D11-D01B6	insulation	A12-R06	Heat treatment of	
Hardboard	A12-A04+	insulation, for pipes	L02-D15	ferrous metal	M24-D02
	F05-A07	insulation, for vehicles	A12-H02D1	ferrous metal, annealing	M24-D02B
Hardeners for resins	A08-C+	properties	A12-T04B	ferrous metal, cast iron	M27-B03
	A08-D+	sealing	A09-A01+	ferrous metal, iron alloys	M27-B
Hardeners, photographic	G06-H14	setting	A11-C01+	ferrous metal, multistage process	M24-D02D
Harsh abrasive oxides	L02-F04	setting, fabric	A11-B02+	ferrous metal, specific articles	M24-D03
Hats	A12-C03	setting, fibres	F03-A02	ferrous metal, steel alloys	M27-B04
	F04-C05	setting, film	A11-B02C	ferrous metal, surface hardening	M24-D02A
Haul-off		setting, yarn	F01-H05	ferrous metal, using heat treatment baths	M24-D02C
after extrusion	A11-B07D	sinks (electronics)	A11-B02C	fibres	F01-H05
of finished articles	A11-C06	sinks for semiconductor devices	F01-H05	glass	L01-G02
preliminary processing	A11-A	stabilisers	L03-G	non ferrous metal or alloy	M29-C
Hay	B04-A07D4	stabilisers, for fabrics		non-ferrous metal or alloy, apparatus	M29-C02
	B04-A09H	stability of polymers	L04-C25	non-ferrous metal or alloy, specific articles	M29-C01
	C04-A07D4	sterilisation of food	A08-A04+	polymers	A11-A02+
	C04-A09H	Heat exchanger	F03-C07	semiconductors	A11-B02+
		cleaning	A09-A01A		L04-C16
Haze	A09-A02	control arrangements	D03-H02B	Heaters (electrical) polymer use	A12-E10
HDPE	A04-G02+	deposit prevention	A12-W11G	Heating	
Head boxes of paper making machines	F05-A04A	direct contact	J08-E	electrical	A12-E10
Headache treatment	B12-D01	elements	J08-D05	elements used in deodorization	L03-H04A
	B14-C01	indirect contact	J08-D02		
	C12-D01	modifying heat transfer	J08-B		
	C14-C01	nuclear plant	J08-D01		
Heads		petroleum refining	J08-D01		
magnetic	A12-E08A2	special features	J08-C		
	L03-B05M	with moving conduits	J08-D04		
thermal inkjet	L03-G10B	with stationary conduits	K06-B		
Healds	F02-A02	Heat pipes	H05-M		
Health foods		Heat sensitive	J08-D03		
diabetic	D03-H01T5	materials (electrical)	J08-C03		
dietary fibre	D03-H01T1	recording	J08-C01		
gluten free	D03-H01T5		J08-C02		
high calorie	D03-H01T4	Heat storage	J08-C04		
low calorie	D03-H01T3	compositions			
low carbohydrate	D03-H01T3B		J08-S		
low fat	D03-H01T3A		A12-W11G		
other (not prebiotic, not probiotic)	D03-H01T2B		J08-S01		
prebiotic	D03-H01T2A		L03-H04A		
probiotic	D03-H01T2A	devices	J08-S02		
		devices, non-electric	A12-R02B		
		Heat transfer			

Heavy metals		selective	B12-P06 C12-P06 C14-V02	spirofused	B06-S C06-S
compounds as disinfectants					
other than of food or air	D09-A01A				
poisoning treatment	B12-J05C B14-M01D C12-J05C C14-M01D	vegetable crop	C14-V02F	Heterocyclics, mononuclear	B07 C07 E07
removal from waste water	D04-B05 D04-B05A	Herbicides		containing "N" and "O"	
waste encapsulation	L02-D	use of polymers	A12-W04C	only	B07-E C07-E E07-E
Heavy water	E31-A K05-B05A	Het-acid condensant	A01-D08 A01-E12	containing "N" and "S"	
		monomers	A01-A00A	and "O" only	B07-G C07-G E07-G
Heddles	F02-A02	Heterocyclic compound		containing "N" and "S" only	B07-F C07-F E07-F
Helium (element)	B05-B02C C05-B02C E31-J	catalysts	N05-D	containing "N" only	B07-D C07-D E07-D
Helium compounds	B05-B02C C05-B02C E31-J	Heterocyclic compound		containing "O" only	B07-A C07-A E07-A
inorganic	E05-K	containing phosphorus		containing "S" and "O" only	C07-C E07-C
organic		with P-C bond	B05-B01E C05-B01E E05-G01	containing "S" only	B07-B C07-B E07-B
Helmets	A12-C0	with P-halogen bond	B05-B01H B05-B01J C05-B01H C05-B01J	containing ring halogen	B05-C07 C05-C07
Heparin	B04-C02E C04-C02E	with P-N bond	B05-B01J C05-B01J E05-G04	general	E05-K B07-H C07-H E07-H
Heparin (optionally modified)	B04-C02E1 C04-C02E1	with P-O (or S) bond	B05-B01M C05-B01M E05-G07	spirofused	B07-S C07-S
Hepatic condition treatment	C12-G02			Hexacene	B08-A C08-A E08-A
Hepatic extracts	B04-B04H C04-B04H	Heterocyclic compounds as		Hexachloroendo- methylene	
Hepatitis treatment	B12-A01 B12-G02 C12-A01 C12-G02	disinfectants other than of		tetrahydrophthalic acid	
general or Non A Non B	B14-N12 C14-N12	food or air (excluding	D09-A01C	condensant	A01-D08 A01-E12
hepatitis A	B14-A02B3 C14-A02B3	D09-A01A+ D09-A01B)		1,4-Hexadiene	
hepatitis B	B14-A02A5 C14-A02A5	Heterocyclic polymers		(co)polymers	A04-B
hepatitis C	B14-A02B9 C14-A02B9	(excluding polyimides)	A05-J02	monomer	A01-C05
hepatitis D	B14-A02A8 C14-A02A8	Heterocyclics, fused ring	B06 C06 E06	Hexafluoropropylene	E10-H02B E10-H03A3 E10-H04A3
Hepatoprotectives	B12-G02 B14-N12 C12-G02 C14-N12			(co)polymers	A04-E10D
Herbal tea	D03-D03			(co)polymers, with TFE	A04-E09
Herbicide				monomer	A01-D12
antidote	B12-J05D B14-M01E C12-J05D C14-M01E	containing "N" and "O"		Hexahydrophthalic acid	
aromatic crop	C14-V02A C14-V02B	only	B06-E C06-E E06-E	condensant	A01-E12
cereal crop	C14-V00X		B06-G B06-G C06-G C06-G E06-G	Hexamethoxymethyl melamine	A10-E08C
combating resistant weeds	C14-V00X			Hexamethylene diamine	E10-B01E
fruit crop	C14-V02C	containing "N" and "S"		condensant	A01-E05
general and total	B12-P05 C12-P05 C14-V01	only	B06-F C06-F E06-F	Hexamethylene diisocyanate	E10-A14 E10-A14A E10-A14B
oil crop	C14-V02D		B06-D B06-D C06-D E06-D	condensant	A01-E02
ornamental crop	C14-V02E		B06-A C06-A E06-A	Hexamethylene- tetramine	B06-D17 C06-D17 E06-D17
post-emergence	C14-V03A	containing "S" and "O" only	B06-C C06-C E06-C	condensant	A01-E05
post-emergence, pre-			B06-B C06-B E06-B		
emergence general	C14-V03	containing ring halogen	B05-C07 C05-C07 E05-K		
pre-emergence	C14-V03B	general	B06-H C06-H E06-H		

crosslinker for addition and ethylenically unsaturated (co)polymers	A08-C09	Holmium compounds	B05-A03B C05-A03B N03-A02B	HPLC	B11-C08D2 C11-C08D2
crosslinker for other polymers	A08-D03	catalysts	N03-A02B E34-E02B E05-P	5-HT agonist	B14-J03 C14-J03
Hexamine - see Hexamethylene- tetramine		inorganic	E34-E02B	5-HT antagonist	B14-J04 C14-J04
Hexane diamine condensant	E10-B01E A01-E05	organic	E05-P		
1,6-Hexane diol condensant	A01-E14	Holograms, holography	G06-D G06-E L03-G04 L03-G04B9	Human growth hormone (hGH)	B04-J05 C04-J05
Hexene-1 (co)polymers monomer	A04-G A01-D13	materials for	L03-G04B9	Humic acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Hexyl acrylate (co)polymers	A04-F06+	Holomycin	B02-H C02-H		
Hexylene glycol condensant	A01-E14	Home furnishings of fabric	F04-D+	Humus	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Hides (or extracts)	B04-B04E C04-B04E D07-A D07-B	Homogenising of polymers	A11-A03+		
High calorie foodstuff	D03-H01T4	Homopolymerisation			
High density polyethylene	A04-G02+	addition	A10-B+		
High energy rate forming	M21-D	condensation	A10-D+		
High frequency welding of plastics	A11-C01+	Honey	B04-D01A C04-D01A	Huntington's disease treatment	B14-J01A4 C14-J01A4
High impact mixtures of polymers	A07-A+ A09-A05A A04-C02+ A04-C02B1 A09-A05A	Honeycomb structures	A12-R06	Husks from seeds	B04-A07D2 B04-A09F C04-A07D2 C04-A09F
High pressure addition (co)polymerisation	A10-B	Hormonal activity general	B12-G04 B14-D01 C12-G04 C14-D01	Hybridisation tests (DNA) (process)	B11-C08E5 C11-C08E5
High pressure polyethylene	A04-G02+	Hormone inhibitor	B12-G01A B14-D02 C12-G01A C14-D02	Hybrid circuits	L04-F06
High speed melt spinning	A11-B15B1 F01-C08B1	Hormone level determination	B12-K04A6 C12-K04A6	Hybridomas	B04-F05 C04-F05 D05-H15A
High temperature detergents	D11-D01G	Hormones (activity)	C12-G04	Hydraulic fluids	A12-W02+ H08-D05
High throughput screening	B11-C10A C11-C10A	Hormones (general)	B04-B02D B04-J01 C04-B02D C04-J01	Hydrazides of acrylic acids (co)polymers monomer	A04-D04+ A01-D06
Highways, polymer use	A12-R09	Horn (or extract)	B04-B04E C04-B04E	Hydrazine	B05-C03 C05-C03 E31-H B10-A19 C10-A19 E10-A19A E10-A19B
Hinges, polymer use	A12-H06	Horticulture	A12-W04+ A12-S04C	compounds (organic)	B10-A19 C10-A19 E10-A19A E10-A19B
HIPS (high impact polystyrene)	A04-C02+ A04-C02B1 A09-A05A	foam use in	A12-W04+ A12-S04C	Hydrazone	B10-A19 C10-A19 E10-A19 E10-A19A E10-A19B
Histamine agonist/mimetic	B14-L05 C14-L05	Hoses (including tubes, pipes and fittings)	A12-H02+ F04-E A12-H02C A12-H02D A12-H02B A12-H02A	Hydride of metal, catalysts	N05-A
Histaminergic	B14-L05 C14-L05	fabric use	F04-E	Hydride, inorganic (general)	B05-C08 C05-C08 E31-A
Histoma treatment	C12-G07	fittings	A12-H02C		
Histomoniasis treatment	C12-B01	linings and coatings	A12-H02D		
Histomonicide	B14-A03D C14-A03D	reinforced	A12-H02B		
		unreinforced	A12-H02A		
		Hosiery	A12-C03 F04-C02		
		Hot dip metal coatings	M13-A		
		Hot pressing			
		ceramic powders	L02-A04		
		powder metallurgy	M22-H03C		
		Hot stamping of polymers	A11-C04C		
		Hot tops	M22-G02B		
		refractories for	L02-E06		
		Hot working of cast iron alloys	M27-B03		
		ferrous metal	M24-D01A		
		iron alloys	M27-B		
		non-ferrous metal and alloys	M29-A		
		steel alloys	M27-B04		
		Household, polymer use in polyethylene polypropylene	A12-D+ A04-G02E3 A04-G03E1	aliphatic conjugated diolefinic, (co)polymers	A04-B+
				aliphatic conjugated diolefinic, monomers	A01-C05

aliphatic non-conjugated di- or poly-olefinic, (co)polymers	A04-B+	crosslinker for other polymers	A08-D	Hydroquinone condensant	A01-E13
aliphatic non-conjugated di- or poly-olefinic, monomers	A01-C05	redox polymerisation catalyst	A02-A03	Hydrotropes in detergent compositions	D11-B16
aliphatic, monoolefinic, (co)polymers	A04-G+	Hydrogenated/hydrogenation of polymers	A10-E13	Hydroxamic acid (organic)	B10-A18 C10-A18 E10-A18 E10-A18A E10-A18B
aliphatic, monoolefinic, monomers	A01-D13	Hydrogenation processes	B11-C01 C11-C01 E11-D	Hydroxide	E31-D05
aromatic, diolefinic, (co)polymers	A04-B10	of unsaturated carbon-carbon (C-C) bonds	E11-D01	Hydroxy acid based saturated polyesters	A05-E02
aromatic, diolefinic, monomers	A01-C03	of unsaturated carbon-carbon (C-C) bonds (catalytic)	N07-B01	Hydroxy acids condensants	A01-E11 A01-E12 A01-E14
aromatic, monoolefinic, (co)polymers	A04-C+	other than of unsaturated carbon-carbon (C-C) bonds	E11-D02	Hydroxy acids, carboxylic	B10-C04 C10-C04 E10-C04
aromatic, monoolefinic, monomers	A01-D03	petroleum refining	H04-E08	Hydroxy condensants	A01-E13 A01-E14
blowing agents for polymers	A08-B04B	Hydrogen production		Hydroxy group containing vinyl polymer based polyurethanes	A05-G
cycloaliphatic, diolefinic, (co)polymers	A04-B	Electrical methods	E31-A02A	Hydroxy group incorporation in polymer (excluding hydrolysis)	A10-E23
cycloaliphatic, diolefinic, monomers	A01-C05	In fuel cell	L03-E04I	Hydroxy group terminated polybutadiene	A10-E23
cycloaliphatic, monoolefinic, (co)polymers	A04-G	Storage	E31-A02B	Hydroxyalkyl (meth)acrylates (co)polymers	A04-F06+ A01-D10B
cycloaliphatic, monoolefinic, monomers	A01-D13	Other	E31-A02C	paints, coatings	G02-A02C2
unsubstituted condensants	A01-E	Hydrohalogenated/hydrohalogenation of polymers	A10-E04	Hydroxyamines condensants	A01-E05 A01-E13 A01-E14
Hydrochlorinated/hydrochlorination of polymers	A10-E04	Hydroiodinated/hydroiodination of polymers	A10-E04	Hydroxybutyric acid based polyester	A05-E02B
Hydrocortisone	B01-C02 C01-C02	Hydrolase	B04-B02C3 B04-L05 C04-B02C3 C04-L05	Hydroxyethyl cellulose	A03-A04+
Hydrocracking	H04-B03	agonists	B14-L01A3 C14-L01A3	Hydroxyethylamine condensant	A01-E05 A01-E14
Hydroentangling of non-woven fabrics	F02-C02F	enzyme processes	D05-A01B3 D05-A02C	Hydroxylamine	B05-C03 C05-C03 E31-H
Hydrofluoric acid polymerisation catalyst	A02-A04	inhibitors	B12-G01B3 B14-D07 C12-G01B3 C14-D07	organic compounds	B10-A18 C10-A18 E10-A18 E10-A18A E10-A18B
Hydrofluorinated/hydrofluorination of polymers	A10-E04	production by fermentation	D05-C03C	1,4-Hydroxymethyl cyclohexane condensant	A01-E14
Hydroforming	H04-C03	Hydrolysed polymers	A10-E09+	Hydroxynaphthalene condensant	A01-E13
Hydroformylation reaction	E11-F02A	ethylene-vinyl acetate copolymer	A10-E09A A10-E09B	17-Hydroxyprogesterones (excluding cortisones and cortisols)	B01-C03 C01-C03
Hydrogels of polymers	A12-S	polyvinyl acetate	A10-E09A A10-E09B	Hydroxypropyl cellulose	A03-A04+ B04-C02A2 C04-C02A2
Hydrogen		Hydrolysis		Hydroxypropyl ethyl cellulose	A03-A04+ B04-C02A2 C04-C02A2
as chain transfer agent	A02-B	catalytic reaction	N07-F06		
element	B05-C08 C05-C08 E31-A	fabric treatment	F03-C08		
halides (or salts)	B05-C07 C05-C07	non-ferrous metal extraction	M25-B01		
halides (or salts) production	E31-B02	of polymers	A10-E09		
halides (or salts) use	E31-B03	Hydrometallurgical extraction	M25-B		
manufacture (in petroleum refining)	H04-E06	Hydroperoxide			
sulphide (or inorganic salt)	B05-C05 C05-C05	aromatic	E10-A04B1E		
sulphide (or inorganic salt) production	E31-F02	catalyst for polymerisation	A02-A01		
sulphide (or inorganic salt) removal from water	D04-B07D	crosslinker for addition (co)polymers	A08-C05		
sulphide (or inorganic salt) use	E31-F04	crosslinker for other polymers	A08-D		
Hydrogen catalysts	N05-A	organic non-aromatic redox polymerisation catalyst	E10-A04B2E		
Hydrogen peroxide	B05-C08 C05-C08 E31-E01	Hydrophobization	A02-A03		
catalyst for polymerisation	A02-A01	treatment of fabrics	A12-G03 A12-S05R F03-C02A		
crosslinker for addition (co)polymers	A08-C05				

Hydroxypropyl methyl cellulose A03-A04+		organic	E31-F B10-A09C C10-A09C E10-A09C		
	B04-C02A2 C04-C02A2				
5-Hydroxytryptamine agonist	B14-J03 C14-J03	Hypotension treatment	B14-F02A C14-F02A	I2L devices	L04-E06
antagonist	B12-G01 B14-J04 C12-G01 C14-J04	Hypotensives	B12-F05 B14-F02B C12-F05 C14-F02B	Ice for special purposes production working and distribution	J07-B02 J07-B01 J07-B03
Hydroxvaleric acid based polyester	A05-E02B	Hypothalamo- hypophysial system treatment	B12-E01 C12-E01	Ice cream coating packing shaping of	D03-E08 D03-E02 D03-E04 D03-E03
Hygiene	A12-V03C1 D09-A D09-C	Hypothermia treatment	B14-C05 C14-C05	Identification of fabrics fibres	F03-K02 F01-H
Hygroscopic fabric treatment	F03-C05	Hypothermics	B12-D08 B14-C04 C12-D08 C14-C04	Identity cards	A12-D G06-D
Hyoscyamine	B04-A01 C04-A01	Hypoxaemia treatment	B12-E01 B12-K06 B14-K01 C12-E01 C12-K06 C14-K01	Igniters, chemical contact	K04-B02
Hyalon ®	A10-E12B			IIL devices	L04-E06
Hyperglycaemic	B14-F10 C14-F10			IIR	A04-G05A
Hyperopics	B14-J05B C14-J05B	Hytrel ®	A05-E09	Image converters formation by exposure to light, radiation etc. sensors, semiconductor stabilisers (photographic) toners toners, electro-photographic	L03-G10E G06-G18 L04-E05A G06-H11 A12-L05C2 G06-G05 G06-G06
Hypertensives	B12-F04 B14-F02A C12-F04 C14-F02A			toners, non-electrophotographic	G06-H05
Hyperthermic	B14-C05 C14-C05			Imaging body parts for diagnosis	B12-K04C C12-K04C
Hypertonia treatment	B12-C05 B14-J05A C12-C05 C14-J05A			Imaging methods, electrophotographic using isotopes, tracers using X-rays	G06-G08A K08-B01 K08-E01
Hypertriglyceremia treatment	B14-F06B C14-F06B			Imbibition dye transfer systems, photographic	G06-G12
Hypnotics	B12-C07 B14-J01B1 C12-C07 C14-J01B1			Imidation, imidated polymers	A10-E14 A10-E17
Hypoallergic	B12-D02 B14-G02A C14-G02A			Imidazo-pyridines (three N-atoms)	B06-D08 C06-D08 E06-D08
Hypoallergics	C12-D02			Imidazo-pyridines (two N-atoms)	B06-D05 C06-D05 E06-D05
Hypoglycaemics	B12-H05 B14-F09 C12-H05 C14-F09			Imidazo-pyrimidines (four N-atoms)	B06-D09 C06-D09 E06-D09
Hypohalite inorganic	C05-C07 E31-C			Imidazo-pyrimidines (three N-atoms)	B06-D08 C06-D08 E06-D08
organic	B10-A02 C10-A02 E10-A02			Imidazole	B07-D09 C07-D09 E07-D09
Hypohalite (inorganic)	B05-C07			crosslinkers	A08-C09 A08-D03
Hypoleukocytosis treatment	B12-G05 B14-H01A C12-G05 C14-H01A				
Hyponitrite polymerisation catalysts	A02-A02				
Hyposulphites inorganic	B05-C05 C05-C05				

Imidazolidinetrione polymer	A05-J02		C14-G01	Indium compounds	B05-A01B C05-A01B E35-F
2-imidazolidinone condensant	A01-E05	Immunosuppressant	B12-D02B B14-G02 C12-D02B C14-G02	inorganic	G01-A16 E05-D
Imide - see appropriate acid				inorganic compound pigment	B06-D01 C06-D01 E06-D01
Imine (organic)	B10-A20 C10-A20 E10-A20 E10-A20A E10-A20B	Impact modified polymer mixtures	A07-A+ A09-A05A	organic	B06-D04 C06-D04 E06-D04
Immersion plating of metal	M13-B	Impact strength, behaviour of polymers	A09-A05A	Indolizine	B02-I C02-I
Immersion, coating with polymer by	A11-B05A	Impermeability property of polymer	A09-A09	Indolmycin	C14-U01F
Immobilised enzymes	A12-W11L D05-A01	Implants	B11-C04A C11-C04A D09-C01F	Inductances	L03-B02C
Immobilised microorganisms	A12-W11L D05-A03A	Impotency treatment	B14-P02 C14-P02	Induction heating (electric, welding and cutting)	M23-D03
Immunoglobulin general	B04-B04C6 B04-G27 C04-B04C6 C04-G27	Impregnants for concrete, polymeric	A12-B08 L02-D14M	Industrial	C14-W
Immunoglobulin A	B04-B04C6 B04-G27A C04-B04C6 C04-G27A	Impregnating with polymers	A11-B05+ A11-B09+	Industrial culture media preparation	D05-A04B
Immunoglobulin D	B04-B04C6 B04-G27D C04-B04C6 C04-G27D	Impregnation (powder metallurgy)	M22-H03E	Industrial effluent treatment	E11-Q02B
Immunoglobulin E	B04-B04C6 B04-G27E C04-B04C6 C04-G27E	Impregnations of polymers, use	A12-B+	Industrial fabrics	F04-E+
Immunoglobulin G	B04-B04C6 B04-G27G C04-B04C6 C04-G27G	Impression devices, dental	D08-A06	Inert gas (group O) catalysts	N04-A
Immunoglobulin M	B04-B04C6 B04-G27M C04-B04C6 C04-G27M	In vivo radiopharmaceutical diagnostics	B12-K04B C12-K04B	Inert gas compounds	B05-B02C B05-B02C E05-K
Immunoglobulin X	B04-B04C6 B04-G27X C04-B04C6 C04-G27X	In-camera processing	G06-E03	Inert gas compounds organic	C05-B02C
Immunoglobulin Y	B04-B04C6 B04-G27Y C04-B04C6 C04-G27Y	In-situ foaming	A11-B06+	Inert gas-element or inorganic compound	C05-B02C
Immunological disease diagnosis	B12-K04A8 C12-K04A8	Incandescent envelopes or screen production	L03-C04 L03-C04A	Inert gas-element or inorganic compounds	E31-J
Immunomodulatory	B14-G03 C14-G03	Incandescent lamps	L03-C05	Inert silicon compound	D11-B11 D11-B11B2
Immunoregulants	B12-A01 B12-A06 B12-D02B B14-G03 C12-A01 C12-A06 C12-D02B C14-G03	Incineration of waste material	J09-C	Inertia separation of particles from gases	J01-G02
Immunostimulants	B12-A01 B12-A06 C12-A01 C12-A06	Incombustibility of polymers	A09-A01	Infection diagnosis	B12-K04A4 B12-K04G1A C12-K04A4 C12-K04G1A
general and other	B14-G01	Incontinence treatment	B14-N07D C14-N07D	bacterial infection diagnosis	B12-K04A4B B12-K04G1C C12-K04A4B C12-K04G1C
		Incontinence pads	D09-C04E	parasitic infection diagnosis	B12-K04A7 12-K04G1E C12-K04A7 C12-K04G1E
		Incorporation of boron into polymers	A10-E22	viral infection diagnosis	B12-K04A4A B12-K04G1B C12-K04A4A C12-K04G1B
		inserts during moulding	A11-B		
		metal into polymers	A10-E21+ A10-E22+	Infectious development (photographic)	G06-G01
		phosphorus into polymers	A10-E20	Infertility treatment	B14-P02 C14-P02
		silicon into polymers	A10-E22A	antiabortive	B14-P03 C14-P03
		Indazole	B06-D05 C06-D05 E06-D05	Infiltration (powder metallurgy)	M22-H03E
		Indene (co)polymers monomer	E10-J02B A04-C A01-D03	Inflammability of fabrics	F03-C03+
		Indium alloys	M26-B		
		catalysts	N03-G01		
		production	M25-G13		
		Indium antimonide, indium phosphide	L04-A02C		

Inflammability of polymers	A09-A01	Injection-blow moulding	A11-B10	Inotropics	B12-E02
Inflammatory bowel treatment	B14-		A11-B12+		B12-F01C
E10C1		Ink jets	G05-F03		C12-E02
	C14-E10C1	heads	L03-G10A1	general	C12-F01C
Inflation forming of tubular		Inks for ink-jets	A12-W07D1		B14-J05
films	A11-B07A	Inks	A12-W07D	negative	C14-J05
	A12-S06A	(polymeric) for printing	G02-A02A		B14-J05A
Influenza treatment		dyes and pigments for	A12-W07E	negative cardiac	C14-J05A
antiviral	B12-A06	for ink-jet printers	G02-A04B		B14-F01C
	C12-A06		A12-W07D1	positive	C14-F01C
other	B12-D08	magnetic	L03-G09X		B14-J05C
	C12-D08	removers	L03-B02H	positive cardiac	C14-J05C
Infra-red		writing inks, inks for pens	G02-A03C		B14-F01B
absorbers	B12-L08		A12-D05B	Insect attractant	C14-F01B
	B14-R05		G02-A04A		B14-B06
	C12-L08	Inner transition metal			C14-B06
	C14-R05	compounds	B05-A03B	Insect extracts	B04-B04M
detectors, semiconductors	L04-E05C		C05-A03B		C04-B04M
dyes	E24-D	inorganic	E34-E	Insect repellents	A08-M02
radiation sensitive systems	G06-F08+	organic	E05-P		B12-L06
transparent glass	L01-L05	Inner tubes of tyres	A12-T01+		B14-B05
Ingot casting	M22-G02	Inorganic and metallic fibres			C12-L06
methods	M22-G02A	chemical features	F01-D09+		C14-B05
Ingot moulds, linings and hot tops		dyeing/printing	F03-F12	fibre/fabric treatment,	D09-E02
		Inorganic cellulose esters	A03-A03	non-resinous	
	M22-G02B	Inorganic compounds as		fibre/fabric treatment,	A12-S05R
Inhalants	B12-M01B	disinfectants, other than	D09-A01A	resinous	F03-C02B
	C12-M01B	of food or air			A12-G
Inhaler	B12-M01B	Inorganic fibres dyeing/printing	F03-F12	Insect sterilants	F03-C02B
	C12-M01B				B12-K03
Dry powder	B12-M01B1	Inorganic nanostructures	E31-U		B14-B07
	C12-M01B1	nanofilms	E31-U03		C12-K03
Multidose	B12-M01B2	nanoparticles	E31-U01	Insecticide	C14-B07
	C12-M01B2	nanorods	E31-U02		B12-N02
Inhibitor general and other	B14-L06	nanotubes	E31-U02		C12-N02
	C14-L06	nanowhiskers	E31-U02	coleoptera (beetle)	B14-B04B1
Inhibitors		Inorganic peroxide, persalt	B05-C08		C14-B04B1
corrosion	A12-W11J		C05-C08	dictyoptera (cockroach)	B14-B04B2
	M14-F	catalysts for polymerisation	E31-E		C14-B04B2
corrosion, in water systems	D04-A03C	crosslinkers for ethylenically	A02-A01	diptera (house fly,	B14-B04B3
pickling	M12-A02	unsaturated polymers	A08-C05	mosquito,gnat)	C14-B04B3
polymerisation	A02-C	crosslinkers for other		ephemeroptera (mayfly)	B14-B04B4
scale	A12-W11J	polymers	A08-D		C14-B04B4
scale, in water systems	D04-A03A	redox polymerisation		hemiptera (aphid)	B14-B04B5
scale, on polymerisation		catalysts	A02-A03		C14-B04B5
vessels	A08-S08	Inorganic photoconductors,		hymenoptera (bee, ant)	B14-B04B6
	A10-G02	for radiation sensitive			C14-B04B6
Initiated by ionizing		systems	G06-F07+	lepidoptera (butterfly, moth)	B14-
radiation light etc.		containing zinc oxide or		B04B7	
addition		selenium (alloy or		orthoptera (locust)	C14-B04B7
(co)polymerisation	A10-B06	compound)	G06-F07A		B14-B04B8
curing, crosslinking of				siphonaptera (flea)	C14-B04B8
polymers	A11-C02B	Inorganic pigments	A08-E02		B14-B04B9
graft copolymerisation	A10-C03C		G01-A+	Insecticide general	C14-B04B9
modification of polymers	A10-E10	Inorganic polymer coatings	A12-B01C		B14-B04B
Initiators for polymerisation	A02-A+	general	G02-A01+		C14-B04B
Injection gun	B11-C04C	on metal	A12-B01C	Insecticides	
	C11-C04C		A12-B04C	additives for polymers	A08-M02
Injector, needle free	B11-C04E	Inorganic polymers	A06+	for fabrics	F03-C02B
	C11-C04E	Inorganic resins for coating		for wood	F05-B01
		metal	A12-B04C	polymer agricultural use	A12-W04C
Injection moulding	A11-B12+	Inorganic treatment of		Insects	B04-P01C
equipment excluding		pigments/filler	G01-B02		C04-P01C
moulds	A11-B12C			Insert incorporation during	
moulds	A11-B12B			moulding	A11-B
to form specific goods	A11-B12A				

Inspection of fabrics	F03-K02	Interfacial (co)polycondensation	A10-D01	Intermediate for unknown monomer	A01-F
glass	L01-J02	addition polymerisation	A10-B07	Intermedin	B04-B02D4 B04-J05G C04-B02D4 C04-J05G
Instant food	D03-H01L	Interferon	B02-V03 C02-V03	Intermingling of fibres	F01-H02
Instrumentation electrical	A12-E13	general and other	B04-H05 C04-H05	Internal lubricants for polymers	A08-M03B
for polymer processing equipment	A09-D+	IFN alpha	B04-H05A C04-H05A	Internal mixer for polymers	A11-A03A
Instruments, musical	A12-W08	IFN beta	B04-H05B C04-H05B	Internal oxidation of alloys ferrous	M24-D06
Insulated non-metal conductors	A12-E02+ G02-A05A L03-A02A	IFN gamma	B04-H05C C04-H05C	non-ferrous	M29-D
Insulated wire	L03-A01B3	IFN delta	B04-H05D C04-H05D	Interpenetrating polymer network	A07-A+
Insulating (acoustic and thermal) boards	L02-D15B L02-G06	IFN kappa	B04-H05K C04-H05K	Intestinal disease treatment	B14-E10C C14-E10C
ceramic oxides	L02-D15C	Interferon (substance) activity	B12-A06 C12-A06	Intestine splitting machines	D07-A
flexible sheets	L02-D15D	Interferon inducing	B14-G01A C14-G01A	Intranasal delivery	B12-M01D C12-M01D
material compositions	L02-D15	Interhalogen compounds	B05-C07 C05-C07	Introduction of substances into fermentation media	D05-A03
panels	L02-D15	production	E31-B02	Intumescing agents for polymers	A08-B+ A08-F+
Insulating (electrical) cases and bodies	A12-E05	use	E31-B03	Invert sugar	B10-A07 C10-A07 D06-G E10-A07
ceramic oxides	L02-G05	Interlacing of fibres	F01-H02	Investment castings, patterns	A12-H05
layers for semiconductor devices (including passivating)	L04-C12	Interleukin agonist/mimetic	B14-L03 C14-L03	iodated/iodination of polymers	A10-E04A
layers on semiconductors oxide	L04-C12A	Interleukin antagonist/inhibitor	B14-L07 C14-L07	Iodide, vinyl (co)polymers	A04-E05
nanomaterials	L03-A03N	Interleukins		homopolymer	A04-E04
oils	H08-D08	1	B04-H02A C04-H02A	monomer	A01-D12
oils, for cables	L03-A01B4	10	B04-H02L C04-H02L	Iodide, vinylidene (co)polymers	A04-E07
oils, for capacitors	L03-B03D	11	B04-H02M C04-H02M	homopolymer	A04-E06
tape	A12-E03	12	B04-H02N C04-H02N	monomer	A01-D12
Insulation (acoustic and thermal) in buildings	A12-R06 L02-D15	13	C04-H02P B04-H02P	Iodine (or derivatives) - see also Halogen (or derivatives)	
pipe lagging	A12-H02D1	14-20	B04-H02Q C04-H02Q	Iodine catalysts	N04-D
polyurethane foam use in vehicle	A12-S02F A12-T04B	2	B04-H02R C04-H02R	Iodine deficiency treatment	B12-G06 B14-N11 C12-G06 C14-N11
Insulation (electrical) tape	A12-E+	21-25	B04-H02S C04-H02S	Iodine isotopes	B05-A04D C05-A04D
wiring	A12-E03 A12-E02+ G02-A05A	26-30	B04-H02C C04-H02C	Iodo - see also Halo	
Insulators (electrical)	L03-A	3	B04-H02T C04-H02T	Iodohydrogenated/iodohydrogenation of polymers	A10-E04
Insulin and derivatives	B04-B02D2 B04-J03A C04-B02D2 C04-J03A	31-35	B04-H02D C04-H02D	Iodonium compounds	B10-A01 C10-A01 E10-A01
Intaglio printing plates	G05-A03	4	B04-H02G C04-H02G	organic	
Integral skin foams	A12-S04E	5	B04-H02H C04-H02H	Iodostyrenes (co)polymers	A04-C
Integrated circuits lead frames	L04-C23	6	B04-H02J C04-H02J	monomer	A01-D02
photographically produced	G06-D06	7	B04-H02K C04-H02K	Iodosulphonated/iodosulphonation of polymers	A10-E12B
polymer use in systems for	A12-E07C L04-F03	8	B04-H02 C04-H02	Ion beam etching of semiconductors	L04-C07A
Integrated injection logic devices - I2L or ILL devices	L04-E06	9			
Integrated optical systems	L04-F04	general and other			
Integrin	B04-H21 C04-H21	Interlinings for garments	F04-C		
Intensifying screen for X-ray materials	G06-A09				



Ion channel proteins	B04-N07 C04-N07	crosslinking	A11-C02B	crosslinking agents for ethylenically unsaturated polymers	A08-C09A
Ion exchange fibres	J01-D04 F04-E	graft copolymerisation	A10-C03C	crosslinking agents for others	A08-D04A
non-ferrous metal extraction	M25-B03	medical	K08-H01	inorganic	B05-C03 C05-C03 E32-B
petroleum processing	H02-D01	polymer modification	A10-E10	organic	B10-A14 C10-A14 E10-A14
regeneration of exchanger	J01-D04A	polymer surface treatment processes	A11-C04E B11-C01 C11-C01 D09-A02A D09-B07 E11-P		E10-A14A E10-A14B A04-D
resins	A12-M+	Irradiation in water treatment	D04-A01P2A	vinyl (co)polymer	A01-D07
tests	B11-C08D2 C11-C08D2	Irradiation of food	D03-H02C K08-H02	vinyl, monomer	B05-C03 C05-C03 E32-B
water purification by	D04-A01G	Irritable bowel treatment	B14-E10C C14-E10C	Isocyanide (inorganic)	B10-A15 C10-A15 E10-A15A
Ion implantation doping of semiconductor layers	L04-C02B	Ischemia treatment cerebral	B14-F02D1 C14-F02D1	Isocyanide (organic)	B06-D03 C06-D03 E06-D03
Ion or plasma deposition apparatus for semiconductor manufacture	L04-D04	coronary	B12-F02 B14-F01E C12-F02 C14-F01E	Isocyanuric acid, glycidyl derivatives of	B04-B02C6 B04-L07 C04-B02C6 C04-L07
Ion plating	M13-E	general	B14-F02D C14-F02D	Isoidole	B14-L01A5 C14-L01A5
Ionene polymers	A05-J09	muscle	B12-F07 C12-F07	Isomerase	D05-A01B5 D05-A02E
Ionising radiation addition		pulmonary	B12-K02 B14-F02D2 C12-K02 C14-F02D2	agonists	B12-G01B5 B14-D09 C12-G01B5 C14-D09
(co)polymerisation	A10-B06	Island-in-sea fibres	A12-S05B F01-E01+	enzyme processes	D05-C03F
crosslinking	A11-C02B	Islets of Langerhans treatment	B14-N13 C14-N13	inhibitors	B11-C01 C11-C01 E11-J01
graft copolymerisation	A10-C03C	Isobenzofuran	B06-A02 C06-A02 E06-A02	gasoline production	H04-D03
polymer modification	A10-E10	Isobutene (co)polymers monomer	E10-J02C A04-G05+ A01-D13	Isomers of natural rubber	A03-B
Ionising radiation sensitive materials	A12-L+	Isobutene-isoprene copolymer (butyl rubber)	A04-G05A	Isophorone diamine condensant	A01-E05
Ionising radiation stabilisers	A08-A02	Isobutyl acrylate (co)polymers monomer	A04-F06+ A01-D10B	Isophorone diisocyanate condensant	A01-E02
Ionomers	A10-E21B	Isobutyl alpha-chloroacrylate (co)polymers monomer	A04-E A01-D10	Isophthalic acid	B10-C02 C10-C02 E10-C02C E10-C02C1 E10-C02C2
IPN	A07-A+	Isobutyl cyanoacrylate (co)polymers monomer	A04-D A01-D04 A01-D10	condensant saturated polyesters based on	A05-E03
Iridium catalysts	N02-E N02-E04 A02-A06	Isobutyl methacrylate (co)polymers monomer	A04-F06+ A01-D10B	Isoprene	E10-J02C A04-G05A
Iridium compounds	B05-A03B C05-A03B E35-X E05-N E05-N02B	Isobutyl vinyl ethers (co)polymers monomer	A04-F11 A01-D11	butyl rubber copolymers (excluding butyl rubber) with isobutylene homopolymer monomer	A04-B07 A04-B06 A01-C05
inorganic		Isobutylene (co)polymers monomer	E10-J02C A04-G05+ A01-D13	Isopropenyl methyl ketone (co)polymers monomer	A04-F03 A01-D05
organic		Isocitric acid	E10-C02A		
Iron		Isocyanate based resin adhesives	A12-A05F G03-B02E4 A01-E02		
based powder cores, powders	L03-B02A1	condensants			
electrodeposition	M11-A06A				
melt treatment	M24-C				
powder preparation for magnetic purposes	L03-B02A1				
processing	M24-B01				
production	M24-A				
Iron catalysts	N02-A				
element	N02-A01				
oxide	N02-A01				
Iron chloride polymerisation catalyst					
Friedel Crafts	A02-A04				
other	A02-A06B				
Iron compounds	B05-A03A2 C05-A03A2 E35-U E05-L02 E05-L02A G01-A05				
inorganic					
organic					
pigments or fillers					
Iron oxide pigments	A08-E02 G01-A05				
Ironing textiles	F03-J02				
Irradiation					
addition (co)polymerisation	A10-B06				

Isopropenyl nitrile (co)polymers	A04-D03+	Itaconic acid ester addition (co)polymers	A04-F07	<b>J</b>	Jackets	F04-C03
homopolymer	A04-D02+	monomer	A01-D10		Jam	D03-H01V
monomer	A01-D04		A01-E12	Jacquard weaving	F02-A02	
Isopropyl acrylate (co)polymers	A04-F06+	Ivermectin	B02-A	Jars, polymer use	A12-P06A	
monomer	A01-D10B		C02-A	Jasmolin	B04-A07C C04-A07C	
Isopropyl alpha- chloroacrylate (co)polymers	A04-E	Izod impact strength of polymers	A09-A05A	Javanicin	B02-J C02-J	
monomer	A01-D10			Jelly	B12-M03 C12-M03	
Isopropyl cyanoacrylate (co)polymers	A04-D			Jersey fabrics	A12-S05H F02-B02	
monomer	A01-D04 A01-D10			Jet crimping	F01-H04C2	
Isopropyl methacrylate (co)polymers	A04-F06+			Jet engines	A12-T03+	
monomer	A01-D10B			Jet fuel	A12-T03+ H06-B03	
Isopropylidene acetone (co)polymers	A04-F03			Jet ink	G05-F03	
monomer	A01-D05			Jet inks	A12-W07+ G02-A04	
Isopropylidene bisphenols condensants	A01-E13			Jet looms	F02-A04B	
Isoquinoline	B06-D03 C06-D03 E06-D03			Jewellery	A12-F	
Isothiazole	B07-F01 C07-F01 E07-F01			Joining	L03-A01B2	
Isothiocyanate (organic)	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B			cables		
Isothiocyanate condensants	A01-E02			fabric lengths	F03-K	
Isothiurea	B10-A13A C10-A13A E10-A13A E10-A13A1 E10-A13A2			glass by sealant	L01-H07	
Isotope containing compounds	B05-A04+ C05-A04+ E31			glass by fusion (excluding vitreous enamelling)	L01-H04 L01-H03	
inorganic	E05-R			glass by soldering	L01-H03	
organic	E05-R			glass by welding	L01-H03	
Isotope separation	J01-J			glass using		
Isotopes of non-metal (free element)	B05-A04+ C05-A04+ E31			interlayer	L01-H05	
Isotopic labelling	K09-E			glass using		
Isourea	B10-A13B C10-A13B E10-A13B E10-A13B1 E10-A13B2			other methods	L01-H09	
Isoxazole	B07-E01 C07-E01 E07-E01			optical glass fibres	L01-F03H	
Itaconic acid	A04-F05			Joint disorders	B14-S14 C14-S14	
addition (co)polymers	A01-D08			Jointing compositions	G04-B02	
monomer/condensant	A01-E12			Josephson junction elements	L04-E09	
				Jumpers of fabric	F04-C03	
				Junction field effect transistors (JFET)	L04-E01A1	
				Juvenile hormone	B04-J17 C04-J17	
				Juvenile hormone activity	B12-G04 B14-D01E C12-G04 C14-D01E	

**K**

Kallikrein	B04-B02C3 B04-L05C C04-B02C3 C04-L05C	Kinases	B04-L04C C04-L04C
Kanamycin	B02-K C02-K	Kitchenware	A12-D03
Kaolin	E31-P G01-A10 A08-R06B	Kneading of polymers	A11-A03+
filler	A05-J01+	Knees, artificial	A12-V02 D09-C01D
Kapton®	A03-C01 B04-B04A6 B04-N02 C04-B04A6 C04-N02	Knit-deknit crimping of fibres	F01-H04C F02-B03
Keratin	H06-B02	Knitted fabrics	A12-S05H F02-B02
Kerosene	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Knitting	
Ketal (non-heterocyclic)	A10-E02	machine accessories	F02-B04
Ketalised polymers	A10-E02	machines	F02-B03
Ketals, polyvinyl	A10-E02	methods	A11-C05A F02-B03
Ketenes	E10-F02	warp	F02-B03A
Ketomethylene, photographic		weft	F02-B03B
couplers	G06-H08C	Knives (tableware)	A12-D03
Ketone	B10-F02 C10-F02 E10-F02 A01-E10	Knop yarn	F01-E
condensants		Knotted carpets	F02-E03
monomers (mono-		Knotting	F02-E03
unsaturated, aliphatic)	A01-D05	Knotting of fibres to join ends	F01-H03B
polymers	A04-F03	Kodachrome® type colour	
thio	B10-F01 C10-F01 E10-F01	materials	G06-C02
Ketone condensation polymers		Krypton (element)	B05-B02C C05-B02C E31-J
with amides/amines	A05-B	Krypton compounds	
with other condensants	A05-J08	inorganic	B05-B02C C05-B02C E31-J
with phenols	A05-C	organic	B05-B02C C05-B02C E05-K
Kevlar®	A05-F05	Kurchatovium compounds	B05-A04 C05-A04 E35-R E05-Q
Kickers for blowing agents	A08-B	inorganic	
Kidney extracts	B04-B04H C04-B04H	organic	
Kidney machines (polymer use)	A12-V02 A12-V03B	Kuru disease treatment	B14-N16C C14-N16C
Kidney treatment	B12-G03 B14-N10 C12-G03 C14-N10		
Killing ferrous melt	M24-C03		
Killing insects (in a room)	D09-B06		
Kilns			
rotary for calcining raw			
ceramic materials	L02-A02		
rotary for clinkering cements	L02-C02		
tunnel for sintering ceramics	L02-A04		

**L**

L.O.I of polymers	A09-A01
Lab-on-chip	J04-B02 L04-E01H
Labelling of textiles	F04-F04
Labelling system for foodstuff	D03-K11
Labelling with isotope	K09-E
Labels	A12-P A12-W03
Laboratory	
(meth)acrylamide	
(co)polymer	A04-D04A1
apparatus and methods	J04-B
applications of glass	L01-L03
control, sampling and	
testing	J04-C
equipment	A12-L04+
use in PVA, use in	A10-E09B2
Labour inducing	B12-E09 B12-G04 B14-P01B C12-E09 C12-G04 C14-P01B
Lace casting process of	
polymers	A11-B04C
Lace production	F02-E01
Laces, shoe	A12-C04
Lacquer, based on	A12-B01E A12-B01E G02-A02C+
acrylics	
acrylics containing acrylic	
acids	G02-A02C4
acrylics containing acrylic	
amides	G02-A02C4
acrylics containing acrylic	
nitriles	G02-A02C4
acrylics containing	
aminoalkyl acryl	G02-A02C3
acrylics containing	
diacrylates	G02-A02C4
acrylics containing epoxy	G02-A02C1
acrylics containing	
hydroxyalkyl acrylates	G02-A02C2
acrylics containing	
polyacrylates	G02-A02C4
alkyd resins	A12-B01H G02-A02E
aminoplasts	A12-B01J G02-A02F
epoxy resins	A12-B01L G02-A02G
general addition polymers	A12-B01W
general condensation	
polymers	A12-B01X
inorganic film formers	A12-B01C G02-A01+
natural polymers	A12-B01D G02-A02A
organic film formers	G02-A02+
other addition polymers	A12-B01C G02-A02D+
other addition polymers,	
unsaturated aromatic	
(styrenic) polymers	G02-A02D4

other addition polymers, vinyl ester or unsaturated acid polymer excluding acrylic	G02-A02D3	film phenol-formaldehyde resin in phenolic resin in reinforced plastics sheet	A12-S06C+ A05-C03A A05-C01B1 A12-S08A A12-S07A	Latensification	G06-G04
other addition polymers, vinyl halide polymer	G02-A02D2	unsaturated polyester in unspecified	A05-D02E1 A12-A04D	Latent image transfer process, electrophotographic	G06-G08D
other additional polymers, diene or polyene polymers	G02-A02D1	Laminating	A11-B05+ A11-B09+ F03-D+ F03-D01	Latex (latexes, latices) paints	A07-B+ A12-B01A G02-A+ A07-B01
phenoplasts	A12-B01J G02-A02F	adhesive, of fabrics board (chip-, fibre-, card-) production	A11-B09B	rubber	A07-B01
polyesters	A12-B01H G02-A02E	decorative laminates production	A11-B09B	Laundry compositions	F03-J+ D11 F03-J03
polymers (general)	A12-B01+	fibre reinforced plastics production using moulds/extrusions	A11-B09C	Laundry detergent compositions	D11-D01H
polyurethane	A12-B01K G02-A02H	filament winding	A11-B09C	Lauroctam condensant	A01-E04
silicone	A12-B01C G02-A01A	flame of fabrics	F03-D02	Lauroyl peroxide catalyst for polymerisation	A02-A01
synthetic polymers (general)	G02-A02B	non-fibrous bodies (film, sheet etc.)	A11-B09D	crosslinker for addition (co)polymers	A08-C05
Lacquers	A12-B+ G02-A+ G02-A03+ G02-A03C	process for fabrics to form specific goods	F03-D+ A11-B09A+	crosslinker for other polymers	A08-D
additives for chemical removers for general addition polymer	A12-B01W	Lamps	A12-E11	redox catalyst for polymerisation	A02-A03
general condensation polymer	A12-B01X	discharge, luminescent envelope for discharge, structural parts for	L03-C03 L03-C05 A12-L03	Lauryl acrylate (co)polymers monomer	A04-F06+ A01-D10B
organic pigment used in polymeric	G02-A03A A12-B01+	incandescent shades for	L03-C03 L03-C05 A12-L03	Lauryl methacrylate (co)polymers monomer	A04-F06+ A01-D10B
polymeric, solvent based polymeric, water based	A12-B01B A12-B01A	Landfills		Lavatory cleaners ware	D11-D01D A12-R02
Lactam		waste storage	J10-A	Lavsan ®	A05-E04+
condensants	A01-E04	Lanolin	B04-B01B C04-B01B	Lawrencium compounds	B05-A04 C05-A04 E35-R E05-Q
derived polyamides	A05-F03	Lanthanide (-um) compounds	B05-A03B C05-A03B	inorganic	
dye precursor	E26-B	containing glass	L01-A02A	organic	E05-Q
Lactides condensants	A01-E11 A01-E12 A01-E14	inorganic (general)	E34-E02	Laxatives	B12-J07 B14-E09 C12-J07 C14-E09
Lactones		inorganic (other than cerium)	E34-E02B	Lay-flat film	A12-S06+
condensants/monomers, (cyclo)aliphatic	A01-E12 A01-E14	organic	E05-P	Lay-up of fibre reinforced plastics to form specific goods	A11-B09+ A11-B09A+
condensants/monomers, aromatic	A01-E11 A01-E14	Lanthanide (-um), production	M25-G21	Laying of textile webs	F03-K01
dye precursor	E26-B	Lanthanide catalysts		LCD, polymer use sealant materials(resins)	A12-L03B L03-G05B5A
saturated polyesters derived from	A05-E02	general	N03-A02	LDPE	A04-G02+
Lactose	D06-G E07-A02	lanthanoids (other than cerium)	N03-A02B	Leaching (non-ferrous metal extraction)	M25-B
in compositions	B04-D01 C04-D01	Lanthanum catalysts	N03-A01	Lead alloys	M26-B04
production	B07-A02 C07-A02	Lasers		Lead catalysts	N03-G04
Ladles, casting	M22-G03G	annealing in semiconductor production	L04-C16B	Lead compounds	B05-A02 C05-A02 E35-J E05-F02 E05-F02C G01-A04
Lagging for pipe, tube, hose	A12-H02D1	beams for electric welding and cutting	M23-D05 L03-F02A	inorganic	
Lamb	D02-A03B	compositions	L03-F02A	organic	E05-F02 E05-F02C G01-A04
Laminated		Oxide compositions	L02-G10B	pigment/filler	G01-A04
film	A12-S06C+	dye lasers	L03-F02A3	Lead for pencils	A12-D05B G02-A04
for packaging	A12-P01A	construction and design	L03-F02B	Lead frame attachment to semiconductor and other devices	L04-C24
glass	L01-H02	fluorescent and luminescent materials for semiconductor manufacture	L03-G09G		
sheet	A12-S07A	polymerisation initiated by	A10-B06 A10-C03C A10-D+ A12-L03C G06-D07 L04-E03B		
Laminates	E12-A11	recording devices	A12-L03C G06-D07 L04-E03B		
decorative	A12-A04A	semiconductor type	L04-E03B		
fabric/fibre reinforced	A12-S08A F03-D				

Lead frame manufacture for semiconductor devices and integrated circuits	L04-C23	Leukaemia treatment	B12-G05 B14-H01A C12-G05 C14-H01A	Light, polymerisation initiated by	A10-B06 A10-C03C A10-D+
Lead oxide, glass composition	L01-A03C1	Leukocytes	B04-B04D1 B04-F04 C04-B04D1 C04-F04	Light-induced adhesive photographic systems developed with toner	G06-C
Lead production	M25-G14	Leukosis treatment	B12-G05 B14-H01A C12-G05 C14-H01A	Light-sensitive dyes for radiation sensitive systems	G06-F05
Lead recovery from battery electrodes	L03-E01B1	Leukotrienes	B04-H03F C04-H03F	microencapsulated compositions	G06-C16
Lead removal from waste water	D04-B05 D04-B05A	agonist/mimetic	B14-L04 C14-L04	photographic materials	A12-L+
Leads and terminals preparation	L03-A01B5	antagonist/inhibitor	B14-L08 C14-L08	polymer compositions for radiation sensitive systems	G06-F03+
Leasing	F02-A01	Levelling agents for electroplating	M11-B01	Lighters, chemical	K04-B02
Leather artificial, general	A12-B02A F04-B01+	Levomycetin (chloramphenicol)	B02-C01 C02-C01	Lighting, electrical	A12-E11 L03-H04A
chemical treatment coatings on	D07-B A12-B02A	Lewis acid polymerisation catalyst	A02-A04	Lightning arresters	L03-B04E
coatings on natural	A12-B06	Lewis acid, metal halide catalyst	N04-D01	Lignin	A03-C02 B04-C03D C04-C03D
mechanical treatment	D07-A	Lexan®	A05-E06+	Lignite	A03-C03
waste	B04-B04E C04-B04E	Lichen controlling	B12-P07 C12-P07	Lignosulphonate	A10-E12A B04-C03D C04-C03D
with polyurethanes	F04-B01A	Lids for containers	A12-P03	Limbs, artificial	A12-V02 D09-C01D
with polyvinyl chloride	F04-B01B	Ligase	B04-B02C7 B04-L08 C04-B02C7 C04-L08	Lime (calcium oxide, hydroxide)	E34-D01 L02-B04 L02-B01
Leathercloth	A12-B02A F04-B01	agonists	B14-L01A6 C14-L01A6	by-product production	L02-B01
Leaves (of plants)	B04-A07D5 B04-A09A C04-A07D5 C04-A09A B04-A10B C04-A10B	inhibitor	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Limestone (calcium carbonate)	E34-D03 L02-B01
extracts	B04-B01B B05-B01P C04-B01B C05-B01P	Ligase enzyme process	D05-A01B6 D05-A02F	production	L02-B01
Lecithin	B04-B01B B05-B01P C04-B01B C05-B01P	Light concrete	L02-D03	Limiting oxygen index of polymers	A09-A01
LED, polymer use	A12-E11A	Light emitting: diodes	L04-E03A	Lincomycin	B02-L C02-L
Fluorescent and luminescent materials for semiconductor manufacture	L03-G09G	diode lamps	L03-C06	Linear low density polyethylene (LLDPE)	A04-G06+
Light emitting diodes	L04-E03A	fluorescent and luminescent materials	L03-G09G	Linear polyethylene (HDPE)	A04-G02+
Legs, artificial	A12-V02 D09-C01D	luminescent and fluorescent compositions	L02-G10A L04-E03	Linen, fabric use	F04-D01 F04-D02
Length metering, in winding of fibres	F01-H03B	semiconductor devices	L04-E03	bed	F04-D01
Lenses	A12-L02A L01-G04D A12-V02A D09-C01A	Light irradiated/irradiation of polymer for chemical modification crosslinking	A10-E10 A11-C02B	table	F04-D02
coating	A12-L02A A12-V02A	Light receiving and detecting devices (semiconductor) general	L04-E05	Liners (well equipment)	H01-C07
contact	A12-L02A A12-V02A	Light stabilisers	F03-C07 A08-A03	Lining of pipes, processes	A11-B09A+
spectacle	A12-L02A A12-V02A	fabrics	F03-C07	Linings for casting ladles	M22-G03G2
Leprosy treatment	B12-A03 B14-A01B1 C12-A03 C14-A01B1	polymers	A08-A03	casting moulds	M22-A04
Letterpress printing plates	G05-A02	Light, photographic exposure to	G06-G18	drums (packaging)	A12-P05
Leuco base (general)	E26			furnaces	M22-G03G2
Leuco dyes (dye precursor) for dyeing/printing fibres for heat sensitive systems	E26 F03-F23 G06-F08A			garments	F04-C
				hoses	A12-H02D+
				ingot moulds	M22-G02B
				iron and steel apparatus	M24-A05A
				oil wells	A12-W10C
				pipes	A12-H02D+
				tanks	A12-P05
				tubes	A12-H02D+
				Linoleum	F04-B02
				Lip gloss	D08-B01 D08-B01B D08-B01 D08-B01B
				Lip liner	D08-B01 D08-B01B

Lipid	B04-B01B C04-B01B	semiconductor layers etching of semiconductors	L04-C01C L04-C07C	Low alkali glass	L01-A01C
Liposome	B12-M11F C12-M11F	Liquid skin care formulations	D08-B09A1A	Low calorie beer	D05-B02 D03-H01T3
Liposome site-specific release M10E1	B12- M10E1	Liquid soap	D11-C01C	food Low carbohydrate food	D03-H01T3B
Lipoxygenase	B04-L03E C04-L03E	Liquid toning, electrophotographic	G06-G06	Low density polyethylene	A04-G02+
Lipstick	A12-V04C D08-B01 D08-B01B	Liquid-gas mass transfer	J01-A02	Low fat food	D03-H01T3A
Liquefaction of natural gas	H01-F02	Liquids, application to surfaces	J02-C	Low pressure polyethylene	A04-G02+
Liquefied gas vessels	J06-B01	Liquids, treatment with adsorbents	J01-D01	Low silica glass	L01-A04
Liquefied natural gas	H06-A02	Liquids, Biological treatment	J01-D07	Low temperative detergents	D11-D01F
Liquefied petroleum gases	H06-A01	Liquids, materials for filtering	J01-H02A	Lozenges	A12-V01 B12-M11 C12-M11
Liquefying gases for separation	J07-D01 J07-D02	Liquids, vessels for storing	J06-B	Lubricants	
Liquid chromatography-mass spectrometry	J04-B01C6	Lithium catalysts	N01-A	additives	H07-G
Liquid crystals	A12-L03B E12-B07 G04-B L03-G05B1 L03-G05B4 A12-L03B L03-G05A	Lithium compounds	B05-A01B C05-A01B E35-G E05-A E05-A01	ceramic oxide	L02-G08
additives	L03-G05B	Lithium halide polymerisation catalyst	A02-A07+	coatings (oil free) for metal containing oxygen	M13-H H07-A02
display devices	L03-G05A	Lithographic films or papers	G06-D02	extremely high viscosity oils for electrical components	H07-B01 H08-E04
display devices, components for display devices, (electro)photographic production of mixtures properties	L03-G05B G06-D06B L03-G05B2 A09-A02A	Lithographic printing plates produced photographically	A12-W07B G05-A01 G06-D05+	for fibres	A12-S05S F01-H06+ M21-B03 H08-D07
Liquid detergent compositions	D11-D07	Liver extract	B04-B04H C04-B04H	for metal working	M21-B03 H08-D07 A08-M03+
dishwashing detergents	D11-D07D	Liver fluke treatment	B12-B06 B14-B03 C12-B06 C14-B03	for polymers	J07-A09 H08-D11 M21-A06 H08-D07
laundry detergents with bleach (stain removers)	D11-D07C3	Liver treatment	B12-G02 B14-N12 C12-G02 C14-N12	for refrigerators	J07-A09 H08-D11 M21-A06 H08-D07 H07-E
laundry detergents with special use	D11-D07C	Liverworts	B04-A08A C04-A08A	gaseous layers in magnetic recording	L03-B05K3 H07-B H07-A01 G06-H17 A12-W02 H07-L H08-D11 H07-D H07-A A12-S05S F03-C05
Light duty liquid laundry detergents	D11-D07B	LLDPE (linear low density polyethylene)	A04-G06+	Lubrication systems	H07-F
liquid soap type (hand washing compositions)	D11-D07F	Lobed fibres	A12-S05A F01-E02	Luggage	A12-T
Liquid etching of metal, compositions	M14-A03	Looking glasses	A12-L03	Luminescent	
Liquid fabric softeners	D11-B15B F03-C05	Looms	F02-A04A F02-A04B F02-A02 F02-A04B F02-A04+	ceramic oxides	L02-G10A
Liquid food, testing and monitoring	D03-K03	conventional jet, rapier shedding mechanisms	F02-A04A F02-A04B F02-A02 F02-A04B F02-A04+	compositions for discharge lamp or tube surfaces	L03-C02C
Liquid freezing	J07-B	shuttleless weaving methods	F02-A04A F02-A04B F02-A02 F02-A04B F02-A04+	compounds containing metals	E24-A06A
Liquid metal coolants (for nuclear reactor)	K05-B03A	Lorries	A12-T+	cosmetic pastes	D08-B01
Liquid metal cooled reactor processes	K05-A02C	Lost patterns	M22-C01	dyes containing metals	E24-A06A
Liquid particle separation	J01-F	Lost wax process	M22-G03N	dyes (gen.)	E24-A06
Liquid personal face and body wash	D08-B09A2A	Lotions	A12-V04+ D08-B A12-V01 B12-M02B C12-M02B	heterocyclic dyes	E24-A06B
Liquid petroleum fuel	H06-B	cosmetic	A12-V04+ D08-B A12-V01 B12-M02B C12-M02B	envelopes and screens	L03-C04
Liquid phase chromatography	J01-D01A	pharmaceutical	A12-V04+ D08-B A12-V01 B12-M02B C12-M02B	materials	G04-A
deposition apparatus for semiconductor processing	L04-D03	Loudspeakers	A12-E12 L03-H02	materials for semiconductor manufacture	L03-G09G
epitaxial growth of				others dyes	E24-A06C
				Lung disease treatment	B12-K06 B14-K01 C12-K06 C14-K01



Magnetography	G05-F	Manufacturing processes, for polymer articles	A11-B+ A11-C+	Matting agents for polymers inorganic organic	A08-E02 A08-E03C
Magnetophoretic display	L03-G05H				
Magnetorheological fluid	H08-D12	Marble, artificial	A12-R01	Mattresses	A12-D01
Magnets	A12-E08B	Margarine	D03-C	Mayonnaise	D03-H01H
Magnetostrictive materials	L03-G09I	margarine	D03-C02	MDI condensants	A01-E02
Magnets	A12-E08 L03-B	Mariculture	A12-W04+	Measuring purity of water	D04-A01H
Make up (cosmetics)	A12-V04+ D08-B01 D08-B01C D08-B01A	Marine drilling equipment	H01-B01	Measuring, electrical	A12-E13
Eye make up		drill ships	H01-B01C	Measuring, non-electrical	A12-L04B
Male sexual dysfunction	B14-P04A C14-P04A	Fixed multi-well platforms	H01-B01A	Meat paste	D02-A03B
		mobile jack-up platforms	H01-B01B	Meat preservation	D03-A01
		semi-submersible platforms	H01-B01D	Meat processing	D02-A
Maleate, diallyl (co)polymers monomer	A04-A03 A01-B03	Marine production equipment, for oil and gas	H01-D05	Meat products	D02-A03
Maleic acid esters (monoolefinic) (co)polymers monomer	A04-F07 A01-D10 A01-E12	Marine production platforms		Meat substitutes	D02-A03E
		Decommissioning	H01-B01E	Mechanical	
Maleic acid/anhydride (co)polymers monomer	A04-F05 A01-D08 A01-E12	Marine storage and transport, for oil and gas	H03-D	etching of metal	M14-A01
Maleic anhydride	E07-A01	Marker buoys	A12-T	finishing of fibres and yarns	F01-H
Maleic esterified polymer	A10-E07A	Marker gene	B04-E12 C04-E12	properties of polymers	A09-A05+
Maleimides (co)polymers monomer	A04-D09 A01-D01	Marketing textiles	F03-K	purification of paper pulps	F05-A03
Maleinised rosin	A10-E23	Marking defective semiconductor devices	L04-C19	relaxation or stabilisation of fabrics	F03-A02
Malnutrition treatment	B14-E11C C14-E11C	Marking inks	A12-D05B G02-A04+	testing of properties	J04-C02D
		Markings, road	A12-R G02-A05F	tools	A12-H
Malt	B04-A07F B04-A09F C04-A07F C04-A09F	Marmalade	D03-H01V	Mechanical engineering	A12-H+
Malting grain	D05-B01A	Masers	L03-F01	Mechanical engineering, use of	
Maltose	D06-G E07-A02 B04-D01 C04-D01	Mask design and manufacture in semiconductor processing	L04-C06A	polyamides	A05-F01E2
in compositions		Masking materials in semiconductor processing	L04-C05	polyethylene	A04-G02E4
production	B07-A02 C07-A02	Masking methods (photographic)	G06-E02	polyurethanes	A05-G01E2
Mammary gland	B14-N18 B14-N18	Masking techniques (for semiconductors)	L04-C06	PTFE	A04-E08B
Mammalian extracts (general)	B04-B04L C04-B04L	Masonry, coating compositions for	G02-A05F	PVC	A04-E02E1
Mammothrophin	B04-B02D4 B04-J05 C04-B02D4 C04-J05	Mass colouring of polymer	A11-A01+	reinforced polymers	A12-S08D1
Manganese alloys	M26-B	Mass spectroscopy testing	B11-C08A C11-C08A J04-B01A1 J04-B01C5A	silicon polymers	A06-A00E2
Manganese catalysts for polymerisation	N03-E A02-A06+	Mass transfer (liquid-gas)	J01-A02	Mechanical treatment of fabrics	A12-S05U
Manganese compounds	B05-A03A1 C05-A03A1 E35-S E05-L03 E05-L03A	Masterbatching with polymers of additives of pigments	A11-A03+ A11-A01+	fibres	F03-A+ F01-H
inorganic		Masticating of polymers	A11-A03+	fibrous raw material in papermaking	F05-A01
organic		Mastics	A12-R08 G04-B02	natural fibrous material	F01-A+
Manganese production	M25-G17	Mastitis treatment	B14-N18 C14-N18	natural fibrous material, animal fibres	F01-A01
Manifolds for forming fibres	F01-C01	Matches	A12-T03A K04-D	natural fibrous material, mineral fibres	F01-A03
Manufacture, tyre equipment	A12-T01A	Material handling (polymers)	A11-C06	natural fibrous material, vegetable fibres	F01-A02
		Mats, sport	A12-F01A	Mechanisms, loom shedding	F02-A02
		Matting agents (photographic)	G06-H16	Medical equipment	A12-V03+
				Medical products (textiles)	F04-E04
				Medical use of (meth)acrylate (co)polymers	A04-F06E5 B04-C03B C04-C03B
				cellulose ethers	A03-A04A1 B04-C02A2 C04-C02A2
				polyamides	A05-F01E3 B04-C03D C04-C03D
				polyethylene	A04-G02E3 B04-C03B C04-C03B
				polypropylene	A04-G03E1 B04-C03B C04-C03B



PVA	A10-E09B2 B04-C03B C04-C03B	Membranes	A12-W11A A12-E06B A12-E09	Metal atom incorporation in polymer	A10-E20 A10-E21+ A10-E22+
silicone polymers	A06-A00E3 B04-C03 C04-C03	battery use	A12-E09		
Medical, surgical, polymer use	A12-V+	electrolysis cell separators	J03-B03	Metal casting	M22-G
Medicine		ion transport	J01-E02C1	casting ingots for rolling, forging	M22-G02
nuclear applications to	K09-B	reverse osmosis use	A12-W11A D04-A01D	casting pigs for remelting	M22-G01
Medicines, polymer use in	A12-V01	semipermeable	A12-W11A J01-C03	centrifugal casting	M22-G03B
Medullary reflex active	B12-E01 C12-E01	semipermeable, for gas separation	J01-E03E	chill casting	M22-G03C
Megakaryocyte potentiator	B04-H12 C04-H12	semipermeable, for waste gas treatment	J01-E02C	continuous casting	M22-G03A
MEK condensants	A01-E10	separation use in petroleum processing	H02-D04	die casting	M22-G03D
MEK peroxide		Memory elements	L03-G04	Directional solidification	M22-G03L
catalyst for polymerisation	A02-A01	optical	L03-G04B	For aero engines	M22-G03K1A
crosslinking agent for addition (co)polymers	A08-C05	semiconductor	L03-G04A	For IC engines	M22-G03K2
crosslinking agent for other polymers	A08-D	Memory enhancer	B14-J01A4 C14-J01A4	For turbines	M22-G03K1
redox polymerisation catalyst	A02-A03	MEMS	L03-G10M	Investment casting	M22-G03N
Melamine	E07-D13	Mendeleeevium compounds	B05-A04 C05-A04	Rapid Solidification Processes	M22-G03M M22-G03E
condensant	A01-E01	inorganic	E35-R	vacuum casting	M22-G03E
formaldehyde resin	A05-B02	organic	E05-Q	Metal coated with ceramic	L02-J01E
Melanin	B04-B04E C04-B04E	Meningitis treatment	B14-N16 C14-N16	Metal coated with polymer	A12-B04+
Melanin concentrating hormone	B04-J19 C04-J19	Mercaptan - see also Thioalcohol or Thiophenol		Metal coatings on glass sheet	L01-G04C
Agonists	B14-D01E2 C14-D01E2	Mercaptan chain transfer agents	A02-B	Metal complex dyes for dyeing/printing fibres	F03-F25
Antagonists	B14-D02E2 C14-D02E2	Mercaptan condensants	A01-E	Metal containing compound crosslinker for addition (co)polymers	A08-C09 A08-D05
Melanin concentrating hormone receptor	B04-K01Y1 C04-K01Y1	Mercaptobenzothiazole accelerator for crosslinking agents	A08-C03 A08-D04	for other (co)polymers	A08-D05
Melanocortin agonists	B14-D01E1 C14-D01E1	for addition (co)polymers	A08-C03	Metal containing heat stabiliser for polymers	A08-A04A
Melanocortin antagonists	B14-D02E1 C14-D02E1	for other polymers	A08-D04	Metal containing monomer/ condensant	A01-A+
Melanocyte stimulating hormone	B04-B02D4 B04-J05G C04-B02D4 C04-J05G	Mercerising of fabrics	A11-C05C F03-B	Metal drawing of sheet, wire, rod, tube or profile equipment processes	M21-B01 M21-B01B M21-B01A
Melanophoric hormone	B04-B02D4 B04-J05G C04-B02D4 C04-J05G	Mercuric sulphide	L04-A03A	Metal extrusion of sheet, wire, rod, tube or profile auxiliary processes	M21-B02 M21-B02B
Melt		Mercury alloys (e.g. amalgam)	M26-B02	control devices	M21-B02D
adhesives	A12-A+	Mercury catalysts	N03-F02	equipment	M21-B02C
blowing	A11-C05A1 F01-C07A	Mercury compounds	B05-A03A5 C05-A03A5	processes	M21-B02A
coating onto substrates	A11-B05E	inorganic	E35-E	Metal fillers or reinforcing agents for polymer	A08-R05
iron and steel treatment	M24-C	organic	E05-N E05-N03C	Metal incorporated polymer	A10-E20 A10-E21 A10-E22
proofing of fabrics	F03-C03+	pigments/fillers	G01-A09	Metal inhibitors for polymer	A08-A07
spinning	A11-B15B F01-C08B	Mercury production	M25-G15	Metal insulator semiconductor field effect transistor (MIST, MISFET)	L04-E01C
spinning, high speed	A11-B15B1 F01-C08B1	Mercury selenide	L03-A03B	Metal-organic framework gas sorption	J01-E02B1 J01-E03C1 J06-B06C
Melting refractory or ceramic	L02-A05	Merocyanine dyes	E25-B E25-E	Metal oxide semiconductor transistors	L04-E01B
Melts of polymers	A12-S	Merocyanine/ neutrocyanine spectral sensitisers	G06-H07B	field effect	L04-E01B1
		Mesa isolation in semiconductor manufacture	L04-C12C	Metal plating of magnetic layers	L03-B05E
		Mesogenic/ mesomorphic (liquid crystal property of polymer)	A09-A02A	Metal reinforced with ceramic fibre	L02-J01D
		Metabolic disease treatment	B14-S13 C14-S13	Metal reinforced with specifically designed fabric	F03-D04
		Metaformaldehyde condensant	A01-E09		

Metal removal from water	D04-B05	Methacrolein	B10-D01	Methoxylated melamine	
heavy metals	D04-B05A		C10-D01	formaldehyde resin	A10-E08C
other metals	D04-B05B	(co)polymers	A04-F02	Methoxylated methylolated	
Metal salt adhesion		monomer	A01-D05	melamine	A10-E08C
promoter for polymers	A08-M01C	production	E10-D01A	Methoxymethylated melamine	
Metal salt containing polymer	A10-E21+	use	E10-D01D	formaldehyde resin	A10-E08C
	A10-E22+	Methacrylamide		Methyacrylated polymers	A10-E07B
Metal spraying	M13-C	(co)polymers	A04-D04+	Methyl acrylate	E10-G02
Metal supports for magnetic		monomer	A01-D06	(co)polymers	A04-F06+
recording	L03-B05L2	Methacrylates		monomer	A01-D10B
Metal wires	F04-A	diolefinic (co)polymers	A04-B09	Methyl cellulose	A03-A04+
Metal working		diolefinic monomers	A01-C01		B04-C02A2
ancillary equipment	M21-N	monoolefinic (co)polymers	A04-F06+		C04-C02A2
control and testing	M21-M	monoolefinic monomers	A01-D10	Methyl ethyl ketone	
manipulators	M21-N02	polyolefinic (co)polymers	A04-A03	condensant	A01-E10
safety devices	M21-N03	polyolefinic monomers	A01-B03	Methyl ethyl ketone peroxide	
take-offs, furnaces and		Methacrylic acid	E10-C04G+	catalyst for addition	
cooling beds	M21-N04	(co)polymers	A04-F04+	polymerisation	A02-A01
Metal(loid) containing polymers		monomer	A01-D08	crosslinking agent for	
	A06+	Methacrylic acid aldehyde		addition (co)polymers	A08-C05
Metal, polymer coating on	A12-B04+	(co)polymers	A04-F02	crosslinking agent for	
Metal-ceramic composites	L02-J01	monomer	A01-D05	other polymers	A08-D
Metal-ceramic seals	L02-J01C	Methacrylic acid esters		redox polymerisation	
Metallic electrical conductors	L03-A01	(co)polymers	A04-F06+	catalyst	A02-A03
insulated	L03-A01B	monomer	A01-D10B	Methyl hydroxypropyl cellulose	
non-insulated	L03-A01A	production	E10-G02D3		A03-A04
Metallic fibres features		use	E10-G02H2C		B04-C02A2
chemical	F01-D09	vinyl methacrylate	E10-G02D1		C04-C02A2
fibres, dyeing/ printing	F03-F12	Methacrylic acid halide	E10-G02H2A	Methyl isopropenyl ketone	
Metallic magnets	L03-B02A	polymers	A04-E	(co)polymers	A04-F03
Metallic pigments/fillers	G01-A12+	Methacrylic acid production	E10-C04G1B	monomer	A01-D05
Metallicised ceramic	L02-J01A	Methacrylic acid use	E10-C04G2B	Methyl methacrylate	E10-G02
Metallicised dyes for dyeing/		Methacrylic anhydride		(co)polymers	A04-F06
printing fibres	F03-F25	(co)polymers	A04-F04+	monomer	A01-D10B
Metallicised polymers	A11-C04B1	monomer	A01-D08	Methyl methacrylate-	
Metallicising from metal		Methacrylic fibres		glycidyl acrylate copolymer	A04-F06+
vapour to form coatings	M13-F	chemical features in			A05-A04
Metallicising plastics	A11-C04B1	production	F01-D02	4-Methyl pentene-1	
Metallicising printed circuits	L03-H04E3	dyeing/printing	F03-F05	(co)polymers	A04-G10
Metallicising textiles	F03-H	Methacrylonitrile	B10-A15	monomer	A01-D13
Metalloenes general	E05-V+		C10-A15	Methyl phenol condensant	A01-E13
	B05-V	(co)polymers	E10-A15	Methyl styrene, alpha	
	C05-V	homopolymer	A04-D03+	substituted	E10-J02B
	E05-V02	monomer	A04-D02+	(co)polymers	A04-C05
bridged carbocyclic		Methacryloyl halide polymers	A01-D04	monomer	A01-D03
carbocyclic with only				Methyl styrene, o-, m-, or p-	E10-J02B
1 pi-arene ligand	E05-V03	Methallyl acrylate		(co)polymers	A04-C05
heteroatom-containing rings	E05-V04	(co)polymers	A04-B09	monomer	A01-D03
metallocenes catalysts	A02-A06E	monomer	A01-C01	Methyl vinyl ether	
Other 3-D structures	E05-V05	Methallyl methacrylate		(co)polymers	A04-F11
Unbridged metallocene with		(co)polymers	A04-B09	monomer	A01-D11
2-4 pi-arene ligands	E05-V01	monomer	A01-C01	Methyl vinyl ketone	
Metalloproteases	B04-L05C1	Methallyl sulphonic acid		(co)polymers	A04-F03
	C04-L05C1	(co)polymers	A04-A	monomer	A01-D05
Metallurgical coke production	H09-	monomer	A01	2-Methyl-1,3-butadiene	E10-J02C
A02A		Methane	B10-J02	(co)polymers	A04-B07
Metallurgy			C10-J02	butyl rubber	A04-G05A
nuclear applications to	K09-J	production by fermentation	E10-J02D	homopolymer	A04-B06
Metallurgy polymer use	A12-W12F		D05-C14	monomer	A01-C05
Metals (non-silver), radiation		4,7-Methanoindene	B09-D02	Methylenedioxy-benzene	B06-A02
sensitive systems including	G06-F04		C09-D02		C06-A02
Metalworking fluid	H08-D07		E09-D02		E06-A02
Metathesis of olefins	E11-H02	Methine dyes	E25-B	Methylenedioxy-pyridine	B06-E03
					C06-E03
					E06-E03

Methylenedioxy-quinoline	B06-E05 C06-E05 E06-E05	Microsuspension polymerisation	A10-B03 A10-B05	Miticide	B12-B04 B14-B04A C12-B04 C14-B04A
Methylolated melamine	A05-B02	Microwave heat sealing/ welding of polymers	A11-C01+	Mitomycin	B02-M C02-M
Methylolated urea	A05-B03	Microwave treatment of pigments fillers	G01-B01	Mixed chromophore dyes	E24-C
MF resins	A05-B02	Microwelding printed circuits	L03-H04E7	Mixed filament yarns	F01-E07
Mica fillers	A08-R06B G01-A06	Mikamycin	B02-M C02-M	Mixers flow for polymers rotary	J02-A02A A11-A03A J02-A02B
Microarray	B11-C08E6 C11-C08E6	Military fabrics and products	F04-E02	Mixing	A11-A03 J02-A
Microanalysis	J04-B04	polymer use	A12-T03D+	devices for fermentation vessels	D05-A03B A11-A03A J02-A02
Microbial mutants recombinant	D05-H03 D05-H14A	polymer use, reinforced	A12-S08D3	equipment	D01-A05 L01-B D03-K07 J02-A01
Microbial polysaccharide	B04-C02F C04-C02F	Milk	B04-B04K C04-B04K D03-B15 D03-B08 D03-B10 D03-B07 D03-B11 D03-B09 D03-B10	equipment, for batter and dough glass batch food processes	D01-A05 L01-B D03-K07 J02-A01
Microbicidal	B14-A01 C14-A01	additives carriers for concentrates synthetic testing transporting	A11-A05+	Mixtures of polymers	A07-A
Microbiological culture, apparatus media	D05-H02 D05-H01	Milling of plastics	A11-A05+	Modacrylic fibres	A04-D02B A04-D03B
Microbiology	A12-W11L D05-H	Millipedes	B04-P01C C04-P01C	chemical features of dyeing/printing	F01-D02 F03-F05
Microcapsules	A12-W05 B12-M11E C12-M11E D11-D02B G06-C16	Mimetic general and other	B14-L01 C14-L01	Modelling compositions, clays	A12-F
detergent use photographic		Minced meat	D02-A03B	Moderating neutrons	K08-B
Microcomputers for sewing machines	F02-F01B1	Mineral (naturally occurring)	B04-D02 C04-D02	Moderators for nuclear reactors	K05-B05
Microdenier yarns	F01-E06	Mineral acids in detergents	D11-B13	Modification, chemical of drying oils natural resins	G02-B03 G02-B01
Microfilm	G06-D	Mineral bound to enzyme	D05-A01A5	Modification, chemical of polymers by acetalisation alcoholysis alkylation amidation amination of epoxy or polyether resins amination other polymers arylation cyclisation dehalogenation dehydrohalogenation depolymerisation, degradation electric discharge epoxidation esterification etherification glycolysis halogenation hydrohalogenation hydrolysis incorporating OH or COOH groups other than by hydrolysis incorporation of alkali(ne earth) metal including ammonium incorporation of other metals including B and Si incorporation of phosphorus irradiating with ionising	A10-E02 A10-E09+ A10-E03 A10-E17 A10-E18 A10-E19 A10-E03 A10-E14 A10-E04 A10-E04 A10-E05+ A10-E10 A10-E06 A10-E07+ A10-E08+ A10-E09+ A10-E04A A10-E04 A10-E09+ A10-E23 A10-E21+ A10-E22+ A10-E20
Microfluidic devices	B11-C08C1 C11-C08C1	Mineral fibres mechanical treatment preparation product	F01-A03 L02-B08 L02-D11		
Microgels of polymers	A12-S	Mineral oils	B04-B01C3 C04-B01C3 H07-B		
Microorganisms	A12-W11L B04-B02B B04-F01 C04-B02B C04-F01 D03-G02 D05-H04 D05-H05 D05-A03A A12-W11L D05-H03 B04-B04A5 B04-N03 C04-B04A5 C04-N03 D03-F03 D05-H06A	lubricants			
animal feeds from bacteria fungi linked to a carrier linked to a carrier, polymeric microbial mutants protein from		Mineral removal from water	D04-B07G		
viruses		Mineral waxes	B04-B01C3 C04-B01C3		
Microparticle	B12-M11N C12-M11N	Mineralocorticoid antagonist	B14-D02A C14-D02A		
Microprocesses	J04-F01	Mines (explosive)	K03-A01		
Microphones, polymer use	A12-E12	Minicells/organelles	B04-F12 C04-F12		
Microprocessors in polymer processing	A09-D+	Mining (meth)acrylamide (co)polymer use in using low or zero gravity polymer use in	A04-D04A2 M25-F04 A12-W10+		
Microreactor	J04-X04	MIP (Macrophage inflammatory protein)	B04-H11 C04-H11		
Microscopy	B11-C08J C11-C08J	Mirrors	A12-L03		
Microspheres	E12-A13	MIS	B04-H10 C04-H10		
		Miscarriage prevention	B14-P03 C14-P03		
		Missiles, military	A12-T03D+ K03-A		

radiation irradiating with visible or UV light	A10-E10	Monoazo dyes for polymers pigment	A08-E03A+ E21	polymer	A04-C+
nitration, sulphation, thio group formation, sulphonation	A10-E10	Monobath processing, photographic	G06-G15	Monoolefinic monomers	A01
oxidation, ozonisation	A10-E24	Monochloroalkane	E10-H02K E10-H03C5 E10-H04C5	Monoquaternary ammonium compounds	B10-A22 C10-A22 E10-A22
reduction	A10-E11	Monochloroalkene	E10-H02J E10-H03C3 E10-H04C3	Monosaccharides (general)	B04-D01 C04-D01
sulphation	A10-E24	Monochloroalkyne	E10-H02J E10-H03C3 E10-H04C3	with no heterocyclic ring	B10-A07 C10-A07 E10-A07
sulphohalogenation	A10-E12B	Monoclonal Antibodies prepared by hybridoma techniques	D05-H11A D05-H11A1	Monothiocarbamic acid, or ester (organic)	B10-A12B C10-A12B E10-A12B E10-A12B1 E10-A12B2
sulphonation	A10-E12A	Monoclonal Antibodies prepared by recombinant DNA techniques	D05-H11A2	Mops	A12-D03
sulphurisation	A10-E24	Monocotyledons	B04-A08C2 C04-A08C2	Mordant, photographic	A12-L02F G06-H10
thio group formation	A10-E24	Monocytes	B04-F04 C04-F04	Morphinan	B04-A04 B06-D18 C04-A04 C06-D18 E06-D18
ultrasonic vibrations	A10-E10	Monoepoxy condensants	A01-E07	Morphine	B04-A04 C04-A04
urethanisation	A10-E24	Monofilaments (monofils)	A12-S05E F01-E05	Morpholine	B07-E03 C07-E03 E07-E03
xanthation	A10-E24	Monoglycidyl ether/ester condensants	A01-E07	Mortars, cements	A12-R01A L02-D01
Modified polymers	A10-E+	Monohydric phenols condensants	A01-E13	Moss	B04-A07D B04-A08A C04-A07D C04-A08A
Modifiers		Monolithic capacitors	L03-B03B	controlling	B12-P07 C12-P07
polymerisation	A02-B	Monomer		Moth proofing of fabrics, non-resinous	A12-S05R F03-C02B
viscosity, for polymers	A08-M06	Sulphur dioxide	A01-A	of fabrics, resinous	A12-G F03-C02B
Moisture conservation	B12-P10 C12-P10 C14-T02	Monomer intermediates	A01-F	Motilin	B04-J12 C04-J12
Moisture crosslinking agent	A08-D06	Monomer recovery/removal from polymer	A10-G01A	Motion sickness treatment	B12-D05 B14-E05 C12-D05 C14-E05
Moisture sensitive resistors	L03-B01A3	Monomer removal from waste water	D04-B06	Motor molecules	B04-H20 C04-H20
Molasses	B04-D01 C04-D01	Monomer, polymerisation coating process	A11-B05C	Motors, electric	A12-E08B L03-B02E
Molasses, extraction of sugar from	D06-F	Mononuclear monohydric phenols condensants	A01-E13	Mould inhibitors	B12-A02 B14-A04 C12-A02 C14-A04
Molecular chaperones/ chaperonins	B04-N09 C04-N09	Mononuclear polyhydric phenols condensants	A01-E13	Mould material control and testing	M22-A
Molecular properties of polymers, testing of	A09-C	Monoolefin, aliphatic, substituted monomer	A01	drying or cooling	M22-B03
Molecular sieve catalysts (silico)phosphate	N06-A N06-B03 L02-G01A	Monoolefin, aliphatic, substituted polymer containing halogen (but not nitrogen)	A04-E+ A04-D+	hardening including catalysts	M22-A
sorption (petroleum processing)	H02-B01	containing nitrogen	A04-F+	machines for handling or dressing	M22-B
gas sorption	J01-E02B1 J01-E03C1 J06-B06C	or nitrogen		mixing, grinding and kneading	M22-B01
Molluscicides	B12-N04 B14-B12 C12-N04 C14-B12	Monoolefin, aliphatic, unsubstituted polymer (general)	A04-G+ A04-G01E A04-G01B A04-G01C A04-G01A A04-G01D		
Molten polymers	A12-S	application			
Molybdenum alloys	M26-B13 M25-G18	compounding			
Molybdenum catalysts	N03-D N03-D02 A02-A06+	fabrication			
for polymerisation		production			
Molybdenum compounds	B05-A03B C05-A03B E35-Q	treatment			
inorganic					
inorganic compound	G01-A14 E05-M E05-M03C				
organic					
Monitoring radiation	K07-A				
Monoalkyl orthophosphate (or its salt)	B05-B01P C05-B01P E05-G09C				

reclaiming, sieving and separating	M22-B02	Mucolytic	B12-K05 B14-K01E C12-K05 C14-K01E	whole	B04-A07D5 B04-A08D C04-A07D5 C04-A08D
Mould release agents for concrete moulding polymers	L02-D02 A08-M03B	Mud, drilling	A12-W10A	Musical instruments	A12-W08
Mould repellent (biological)	A08-M02	Mulch films	A12-S06+ A12-W04A B12-P10 C12-P10 C14-T02	Mutagen	B14-H02 C14-H02
Mouldable refractories	L02-E05			Mutant formation - general	D05-H03
Moulded articles	E12-A09			Mutant sequences engineered naturally occurring	D05-H12B D05-H12B2 D05-H12B1
Moulding		Mulches	A12-W04A B12-P10 C12-P10 C14-T02	Mutase	B04-L07 C04-L07
blow	L01-E03			Mycobacteria	B04-F10B2 C04-F10B2
food	D03-K06	Mulleian inhibitory substance	B04-H10 C04-H10	Mycobactericides (-stats)	B12-A03 B12-A04 B14-A01B1 C12-A03 C12-A04 C14-A01B1
foundry	M22-A	Multi-CSF	B04-H02C C04-H02C		
glass	L01-E05	Multicolour diffusion transfer materials	G06-C09+	Mycocides	B12-A02 B14-A04 C12-A02 C14-A04
machine	M22-E	Multicomponent inorganic pigment	G01-C		
pressure (ceramics)	L02-A03	Multicore optical glass fibres	L01-F03J	Mycoplasma	B04-B02B5 B04-F10A4 C04-B02B5 C04-F10A4
pressure (glass)	L01-E04	Multilayer (electro)-photographic systems	G06-C14+		
Mouldings of polymers		Multilayer systems i.e. with multiple conductive layers	L04-C13	Mycostats	B12-A02 B14-A04 C12-A02 C14-A04
blow	A11-B10	Multiple sclerosis treatment	B12-C10 B12-E02 B14-S01 C12-C10 C12-E02 C14-S01	Mydriatics	B12-E03 B14-J05B C12-E03 C14-J05B
compression	A11-B11				
equipment control/safety in	A09-D1	Multiply paper material multiply tissue/wipes	F05-A06A F05-A06A2	Myeloma	B14-H01P C14-H01P
foams	A11-B06C	Multistep processing in semiconductor manufacture involving conductive and insulating layer formation	L04-C14 L04-C15	Mylar®	A05-E04+
injection	A11-B12+	Multivitamin compositions	B15-Z C15-Z	Myocardial infarct treatment	B12-F01B B14-F01B C12-F01B C14-F01B
rotational	A11-B04A	Muscarinic	B14-J02A2 C14-J02A2	Myopics	B12-E03 B14-J05B C12-E03 C14-J05B
slush	A11-B04B	Muscle contractant	B14-J05C C14-J05C	Myosin	B04-H20C2 C04-H20C2
stereographic	A11-B16	Muscle proteins	B04-H20C+ C04-H20C+	Myotrophics	B12-E02 B14-J05 C12-E02 C14-J05
stereolithographic transfer	A11-B16 A11-B11	Muscle relaxants	B12-E02 B14-J05A C12-E02 C14-J05A	Myotropics	B12-E02 B14-J05 C12-E02 C14-J05
with crosslinking	A11-C02D	Muscular active general	B14-J05 C14-J05		
Mouldings, polymeric, ejection of	A11-C06	Mushrooms cultivation extracts	D05-A04C B04-A07F1 B04-A10A C04-A07F1 C04-A10A B04-B04A4 B04-N01 C04-B04A4 C04-N01	Myriapods	B04-P01C C04-P01C
Moulds					
apparatus for production (for foundry casting)	M22-E				
chill casting	M22-G03C1				
compositions	M22-A01				
compositions, inorganic binders	M22-A02				
compositions, organic binders	M22-A03				
compositions, surface coating, release composition	M22-A04				
continuous casting	M22-G03A1				
design production (for foundry casting)	M22-D				
for glass	L01-E06				
for ingots	M22-G02B				
injection	A11-B12B				
of plastics, of polymers	A12-A02 A12-H05 A12-H05				
of rubber	A12-H05				
Moulds, compositions surface coating, mould					
Mouth preparations	B12-L04 B14-N05 C12-L04 C14-N05 D08-B08+				
Mouth disease	B14-N05A C14-N05A				
Mouth wash whitening	D08-B08B D08-B14B				
MSH (melanocyte stimulating hormone)	B04-J05G C04-J05G				

**N**

N-Acylation reactions	E11-F07D	Nanostructures, inorganic	B05-U06 C05-U06 E31-U	Nasal preparations	B12-L04 B14-N04 C12-L04 C14-N04
N-methylol (meth)acrylamide (co)polymers	A04-D04+	Nanostructures (bound to dye or pigment)	E24-U	Natriuretics	B12-G03 B14-N08 C12-G03 C14-N08
monomer	A01-D06	Nanostructures (containing heteroatoms)	E05-U06	Natta catalysts for polymerisation	A02-A06+
N-Propyl acrylates (co)polymers	A04-F06+	Nanostructures (organic)	E05-U07	Natural flavouring agents	D03-H01C D03-H01E1
monomer	A01-D10B	Nanotechnology	B11-C12 C11-C12 J04-F02 A12-W14	food colorant gums	A03-A A03-C02 A03-C02 G02-B01
N-vinyl carbazoles (co)polymers	A04-D06	Nanotechnology devices	B12-M10A7 C12-M10A7	resins	A03-C02 G02-B01
monomer	A01-D01	Nanotubes, carbon only	B05-U03 C05-U03 E05-U03 E31-U02 L02-H04B	rubber	A03-B
N-vinyl phthalimides (co)polymers	A04-D08	double-walled	E05-U03B	Natural fibrous material treatment	
monomer	A01-D01	multiple-walled	E05-U03C	chemical	F01-B+
N-vinyl pyridines (co)polymers	A04-D07	single-walled	E05-U03A	mechanical	F01-A+
monomer	A01-D01	Nanotubes, carbon plus heteroatom	B05-U04 C05-U04 E05-U04	Natural gas	H01-F
N-vinyl pyrrolidones (co)polymers	A04-D05A	Nanowhiskers	E31-U02	field treatment	H01-F01
monomer	A01-D01	Nanowhiskers (carbon only)	E05-U05B	liquefaction	H01-F02
Nadic condensants	A01-E12	Naphtha extenders	A08-P08	products	H06-A02
Nafion®	A04-E09 A04-E10+	Naphthacene	B08-C01 C08-C01 E08-C01	recondensation systems for	H03-E01
Nail care preparation	A12-V04C D08-B02 D08-B02C D08-B02A D08-B02B	Naphthalene	B10-J02 C10-J02 E10-J02B A01-E	Natural leather, coatings on	A12-B06
artificial nails	D08-B02C	condensant	A01-E	Natural polymers	A03-A+ A03-B+ A03-C+ B04-C03D C04-C03D
polish	D08-B02A	Naphthalene 1,5- diisocyanate condensant	A01-E02	adhesives/binders	A12-A05A G03-B02A
polish remover	D08-B02B	Naphthalene dicarboxylic acid C02C	E10-C02C1B E10-C02C2B A01-E11	coatings on metal	A12-B04C
Nail disease treatment	B14-N19 C14-N19	condensant	A01-E11	coatings/paints	A12-B01D G02-A02A A07-A01+
Nails (or extracts)	B04-B04E C04-B04E	Naphthalene dicarboxylic based saturated polyester	A05-E05A	in polymeric blend modified by alkali(ne earth) metal incorporation	A10-E21A A10-A
Nairit®	A04-B08	Naphthalene sulphonic acid condensant	A01-A A01-E	production	A10-A
Nanobuds (carbon only)	E05-U05D	Naphthalene sulphonic acid-formaldehyde resin	A05-J08	Natural polypeptides	A03-C01
Nanocatalyst	N06-C09	Naphthalenes, vinyl (co)polymers	A04-C05 A01-D03	Natural products (general)	E04
Nanocrystals	M26-C02	monomer	A01-D03	Natural resins	A03-C02 B04-C03D C04-C03D G02-B01
Nanofilms	E31-U03 B05-U05B C05-U05B	Naphthol condensant	A01-E13	for coating metal	A12-B04C G02-A02A
Nanofilms (carbon only)	E05-U05C	Naphtholic couplers, photographic	G06-H08A	paints	A12-B04C G02-A02A
Nanofilters	J01-C04	Napkins, baby	A12-V03A F04-C01A D09-C03	Natural rubber	A03-B B04-C03D C04-C03D
Nanoform (morphology) chromophores (general)	E27-B03A	shape of	D09-C03	adhesives/binders	A12-A05A G03-B02B
dyes	E27-B02A	Napping of fabrics	F03-A	in polymeric blends	A07-A+ A07-B01
pigments	E27-B01A	Narrow fabrics	F02-E02	latex	A07-B01
Nanohorns (carbon only)	E05-U05D			Nausea treatment	B14-E05 C14-E05
Nanomaterials				NBR (acrylonitrile-butadiene rubber)	A04-B04
conductive	L03-A01A6 L03-A02G L03-A03N L03-A01C4 L04-A05			Near infra-red dyes	E24-D
insulative	L03-A03N			Nebulizer	B12-M01B3 C12-M01B3
semiconductive	L03-A01C4 L04-A05			Needles	B11-C02B C11-C02B
Nanoparticles	E31-U01				
Nanoparticles (carbon only)	E05-U05A				
Nanophase alloys	M26-C02				
Nanopowder (carbon only)	E05-U05A				
Nanorods	E31-U02				
Nanorods (carbon only)	E05-U05B				

Needle-free injector	B11-C04E C11-C04E	Neurotropics	B12-E02 B14-J01A4 C14-J01A4	layers on semiconductors	L04-C12B
Needle selection in knitting machines	F02-B01	Neutral refractories	L02-E09	Nitriding metal using gas	M13-D03A M13-D02A
Needling to give non-woven fabrics	F02-C02D	Neurocyanine/merocyanine spectral sensitisers	G06-H07B	using liquid	M13-D01A
Neisseria	B04-F10A5 C04-F10A5	Neutron counters	K08-A01	using solid	
Nematocides	B12-B02 B14-B03A C12-B02 C14-B03A	flux control (nuclear reactor) moderating and producing	K05-B06A K08-B	Nitriding metal using	
Neodymium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	Neutrophil activating protein	B04-H02J C04-H02J	Nitrification inhibitors	B12-N08 C12-N08 C14-T01D
catalysts		Nibs for pens	A12-D05B	Nitrile acrylic (co)polymers monomer	A04-D03+ A01-D04
inorganic		Nickel		polymer	A04-D02+
organic		alloys	M26-B08	Nitrile rubber	A04-B04
Neomycin	B02-N C02-N	alloys, magnetic electrodeposition	L03-B02A4 M11-A02	Nitrites, organic	B10-A05 C10-A05 E10-A05
Neon (element)	B05-B02C C05-B02C E31-J	electrodes for batteries production	L03-E01B4 M25-G19	Nitro compounds, organic	B10-G03 C10-G03 E10-G03
Neon compounds	B05-B02C C05-B02C E31-J E05-K	Nickel catalysts element	N02-C N02-C01 N06-C	Nitro dyes	E25-A
inorganic		Raney		Nitrocellulose	A03-A03 B04-C02A3 C04-C02A3
organic		Nickel compounds	B05-A03B C05-A03B E35-W	Nitrogen (element)	B05-C03 C05-C03 E31-H03
Neopentyl glycol condensant	A01-E14	inorganic inorganic compound pigment	G01-A13 E05-L02 E05-L02C	Nitrogen catalysts	N04-A
Neoprene (co)polymers monomer	A04-B08 A01-C04	organic		Nitrogen compounds, inorganic (excluding ammonia, ammonium) halogen and/or sulphur containing	E31-H E31-H03 E31-H04 E31-H05
Nephritis treatment	B12-G03 B14-N10 C12-G03 C14-N10	Nickel, Raney, see also N06-C		other, production	
Neptunium compounds	B05-A04 C05-A04 E35-R E05-Q	Niobium alloys	M26-B13	other, use	
inorganic		Niobium catalysts	N03-C N03-C03 A02-A06+	Nitrogen containing compound crosslinker	A08-C09 A08-D03 A08-D04
organic		for polymerisation		Nitrogen containing inorganic compounds removal from water	D04-B07C
Nerve gas antidotes	B12-E04 B12-J05 B14-M01 C12-E04 C12-J05 C14-M01	Niobium compounds	B05-A03B C05-A03B E35-N E05-M E05-M03A	Nitrogen containing inorganic detergent additives	D11-B20
Net fabrics	A12-S05J F02-E03	inorganic organic		Nitrogen containing mono-unsaturated monomers amide	A01-D06
Net lace	F02-E01	Nitrates, cellulose	A03-A03 B04-C02A3 C04-C02A3	cyclic	A01-D01
Net making	F02-E03	Nitrates, inorganic general		nitrile (aliphatic)	A01-D04
Nets	A12-P07 F02-E03	removal from water	B05-C02 C05-C02 E31-H D04-B07C	others (not specified above)	A01-D07
Neurohypophyseal	B04-B02D4 B04-J05 C04-B02D4 C04-J05	Nitrates, organic	B10-A05 C10-A05 E10-A05	Nitrogen containing monoolefinic (co)polymers	A04-D+
Neuroleptics	B12-E02 B14-J01B3 C12-E02 C14-J01B3	Nitration (catalytic)	N07-D08C	Nitrogen halides, organic	B10-A02 C10-A02 E10-A02
Neuroprotective	B14-J01 C14-J01	Nitration of polymers	A10-E24	Nitrogen oxides, inorganic	B05-C03 C05-C03 E31-H E31-H E31-H E31-H04
Neurospora	B04-F09B C04-F09B	Nitric acid	B05-C02 C05-C02 E31-H	production removal, catalytic	E31-H01 H06-C03B
Neurotensin	B04-J15 C04-J15	Nitric oxide agonists	B14-L01D C14-L01D B14-L06D C14-L06D	removal, other use	E31-H02 E31-H05
		antagonists/inhibitors			
		Nitrides			
		abrasive	L02-F03		
		ceramic	L02-H02B2		
		hard alloy	M26-B12		

Nitrogen oxides, organic	B10-A03 C10-A03 E10-A03B	Non-electrolytic deposition/ coatings		reduction	M25-D
		cathode sputtering	M13-G	refining in a vacuum	M25-F01
Nitrolic acid	B10-A03 C10-A03 E10-A03A	cementation by diffusion processes	M13-D	specific metal by general method	M25-G
		cladding of or with metal	M13-H01	Non-ferrous ore treatment	M25-A
Nitrone	B10-A03 C10-A03 E10-A03A	electroless plating	M13-B	concentration	M25-A01
		electrostatic coating, general	M13-H06	sintering, crushing, roasting, briquetting	M25-A02
Nitroso compounds, organic	B10-A03 C10-A03 E10-A03C	electrostatic coatings	M13-H06	Non-flammability of polymers	A09-A01
		enamelling/vitreous coating of metal	M13-J02	Non-ionic detergents	A12-W12+ D11-A03
Nitroso dyes	E25-A	gas plating by decomposition or reduction	M13-E	Non-iron textile finish non-resinous	A12-S05R F03-C04
Nitroso group containing (co)polymers monomer	A04-A04 A01-A05	hot dip metal coating	M13-A	resinous	A12-G02 F03-C04
NMR analysis of polymers	A09-B	metal spraying	M13-C	Non-magnetic layers for magnetic recording	L03-B05K
NMR diagnosis	B12-K04C2 C12-K04C2	metallising from metal vapour	M13-F	Non-mammalian extract (general)	B04-B04M C04-B04M
NMR testing	B11-C08A B11-C08G2 C11-C08A C11-C08G2	oil free lubricant and friction coatings	M13-K	Non-metal additive in glass composition	L01-A07
		plastics coatings	M13-H05	Non-metal compounds	E31
Nobelium compounds	B05-A04 C05-A04	refractory coatings, general	M13-H04	Non-metal conductors	L03-A02A
inorganic	E35-R	sintering on or of metal	M13-H02	Non-metal/ceramic composites	L02-J02
organic	E05-Q	using adhesives	M13-H03	Non-metallic coating of metal by surface reaction	M14-D
Noble gas catalysts	N04-A	vacuum evaporation or		chromate layer	M14-D03
Noble gases	B05-B02C C05-B02C E31-J	Non-ferrous alloys (based on particular metals)	M26-B	oxide layer	M14-D01
compounds	B05-B02C C05-B02C	Non-ferrous alloys (changing physical structure)		phosphate layer	M14-D02
compounds, organic	E05-K	changing physical properties	M29-E	Non-metallic coating of metal electrolytically	M11-F
inorganic	E31-J	cold working	M29-B	Non-metallic electric conductors	L03-A02 L03-A02A
Noble metals		heat treatment	M29-C	non-insulated	L03-B02B
alloys	M26-B01	heat treatment, apparatus	M29-C02	Non-metals	E31
electrodeposition	M11-A05	heat treatment, of specific articles	M29-C01	Non-oxide ceramics	L02-H
production (excluding silver)	M25-G20	hot working	M29-A	Non-oxide network former, in glass composition	L01-A07B
		special physical treatment	M29-D	Non-polymer coating on fabrics and fibres (sizes)	A12-G04
Noble metals catalysts	N02	Non-ferrous alloys (production)		on polymers	A11-C04+
Noise insulation in transport	A12-R06 A12-T04B	by melting	M26-A	Non-radiation sensitive agent	
Nomex ®	A05-F05	by pressing or sintering	M26-A01	binders	G06-A06
Non-chocolate candy+ chewy	D03-E10B2	by removing material	M26-A02	filter dyes	G06-A02
hard	D03-E10A2	from another alloy	M26-A03	nucleating	G06-A04
Non-circular fibres	A12-S05A F01-E02	Non-ferrous metal compounds		nuclei	G06-A04
		extraction from ore by wet method	M25-B	screening dyes	G06-A02
Non-coding sequences	D05-H12D	Non-ferrous metals (changing physical structure)		Non-radiation sensitive copying materials	G05-E
antisense sequences	D05-H12D2	changing physical properties	M29-E	Non-radiation sensitive layer	
other	D05-H12D6	cold working	M29-B	antihalation	G06-A02
primers	D05-H12D1	heat treatment	M29-C	antistatic	G06-A03
probes	D05-H12D1	heat treatment, apparatus	M29-C02	barrier	G06-A08
regulation sequences	D05-H12D5	heat treatment, of		conversion screens	G06-A09
ribozyme	D05-H12D4	specific articles	M29-C03	dielectric	G06-A13
triple-helix forming	D05-H12D3	hot working	M29-A	electrically conductive (for electrophotography)	G06-A07
Non-combustible polymers	A09-A01	special physical treatment	M29-D	filter	G06-A02
Non-destructive testing of ferrous metals	M24-E	treating and testing (other)	M29-E	intensifying screens	G06-A09
non-ferrous metals	M25-H	Non-ferrous metals (production)		intermediate	G06-A10
welds	M23-G	apparatus	M25-J		
Non-drying oil derived polyesters	A05-E08	control/testing	M25-H		
		dry reduction of ore	M25-C		
		dry reduction of ore, apparatus	M25-C01		
		dry reduction of ore, methods	M25-C02		
		extraction from scrap, flue dust, slag	M25-E		
		refining by carbonyl			



magnetic	G06-A12	Nuclear fusion reactors	K05-A03	Nylon 6:6	
nucleating	G06-A04	constructional features	K05-A03C	Nylon 66	A05-F02
protective	G06-A08	fusion targets	K05-A03B	Nylon fibre filler for polymers	A05-F+
receiving	G06-A04	plasma containment	K05-A03A		A08-R08A
reflective	G06-A11	Nuclear hormone receptor	B04-K01X	Nylon fibres dyeing/printing	A12-S05N
release	G06-A05		C04-K01X		F03-F06+
scratch resistant	G06-A08	Nuclear magnetic resonance		Nylons	A05-F+
storage phosphors for		analysis of polymers	A09-B	Nylons modified by alkylation	
X-ray material	G06-A09	testing	B11-C08A	or by alkoxyalkylation	A10-E19
stripping	G06-A05		B11-C08G2	Nystatin	B02-N
subbing	G06-A01		C11-C08A		C02-N
			C11-C08G2		
Non-resinous sizing of			J04-B01A		
fabrics and fibres	A12-G04	Nuclear power			
Non-silver metal, radiation		heat exchangers for	K06-B		
sensitive system including	G06-F04	plant aspects	K06-X		
Non-steroidal nuclear		steam raising plant for	K06-A		
hormone receptors	B04-K01X	Nuclear reactors	K05-A		
	C04-K01X	accessories	K05-B07		
Non-stick coatings	G02-A05D	materials for	K05-B10		
Non-woven fabrics	A12-S05G	Nucleating agents for polymer	A08-M10		
	F02-C01	foam	A08-S07		
adhesive or binder bonded	F02-C01C	Nucleating layer, photographic	G06-A04		
polymer-bonded	A12-B02B	Nucleic acid - see also DNA			
production	F02-C02	and RNA	B04-B04A1		
production by air laying	F02-C02F	detection and analysis of	J04-B03		
production by		Nucleosides	B04-B03A		
hydroentangling	F02-C02F	biosynthesis of	C04-B03A		
production by spunlacing	F02-C02F	Modified nucleosides	D05-C06		
production by wet laying	F02-C02F		B04-B03D		
Non-woven pile fabrics	F02-C01A		C04-B03D		
Non-woven self-bonded fabrics		Nucleotides	B04-B03B		
	F02-C01B1	biosynthesis of	C04-B03B		
Nonyl phenoxy polyethylene		Modified nucleotides	D05-C05		
glycol	A10-E08B		B04-B03E		
Noodles	D01-B02E		C04-B03E		
Nootropics	B14-J01A4	Nutritional additives, or			
	C14-J01A4	compositions			
Norbornene		Nutritional agents	B14-E11		
monomer	A01-D13		C14-E11		
monoolefinic (co)polymer	A04-G	Nuts (seed)	B04-A09F		
Normalising, ferrous metals	M24-D02B	extracts	C04-A09F		
Norovirus	B14-A02B0	products	B04-A10G		
	C14-A02B0	Nuts and bolts	C04-A10G		
Nose preparations	B12-L04		D03-Q		
	B14-N04	Nuts, treatment of	A12-H12		
	C12-L04		D03-J02		
	C14-N04	Nylon 11	A05-F03		
Notched izod impact strength	A09-	dyeing fibres	F01-D03A		
A05A			A12-S05N		
Novobiocin	B02-N		F03-F06+		
	C02-N	Nylon 6	A05-F03		
Novolacs	A05-C+	dyeing fibres	F01-D03A		
Nozzles	J02-C01		A05-F02		
for glass fibre formation	L01-F03B		A12-S05N		
for metal casting	M22-G03G1		F03-F06+		
NR - see Natural rubber	A03-B	Nylon 66	F01-D03A		
Nub yarn	A12-S05E	dyeing fibres	A12-S05N		
	F01-E		F03-F06+		
Nuclear warfare engineering		Nylon 6:10	A05-F02		
protection against	K02-A03	dyeing fibres	F01-D03A		
Nuclear ceramic oxides	L02-G09		A12-S05N		
Nuclear engineering			F03-F06+		
(polymer use)	A12-W11C				
Nuclear explosives	K08-D				



		antioxidants for additives, methacrylate	D10-A03	Olefins	B10-J02 C10-J02 E10-J02C
		antioxidants for, (co)polymer in	A04-F06E3 A12-W02A	(co)polymer in polymeric blends	A07-A+ A04-B+
O/W dispersion of polymers	A07-B+	chemical modification of compositions containing cooking(liquid)	D10-B02 D10-A06 D03-C01	diolefinic (co)polymers	A04-B+
Obesity treatment	B14-E12 C14-E12	dielectrics for cables	L03-A01B	diolefinic monomers	A01-C+
Octene-1 (co)polymers monomer	A01-D13 A04-G	dielectrics for capacitors	L03-B03	metathesis	E11-H02
Odorant for polymers	A08-M04	dielectrics for transformers	L03-B02D	monoolefinic (co)polymers	A04-G+
Odorant treatment of textiles	F03-C09	drying	G02-B03	monoolefinic monomers	A01-D13
Oedema treatments	B12-G03 C12-G03	edible	D03-C	production by disproportionation	E10-J02C2
general	B14-C03 C14-C03	edible(liquid)	D03-C01	production by oligomerisation	E10-J02C1
Oesophagus disease treatment	B14-E10A C14-E10A	essential	D10-A05	production by other methods	E10-J02C3
Oestr - see also Estr-		extenders	A08-P08	uses	E10-J02C4
Oestrogen inhibitors	B12-G01A B14-D02A C12-G01A C14-D02A	fatty acids from halogenated	D10-B01 B04-B01A C04-B01A J01-F04X3	Olefins, mono-unsaturated - see Monoolefins	
Oestrogen receptors	B04-K01L2 C04-K01L2	filtration	L03-A01B4	Oligomerisation equipment	A10-B08 A10-B01
Oestrogenic	B12-G04C B14-D01B C12-G04C C14-D01B	insulating for cables	L03-B03D	Oligonucleotides	B04-B03C C04-B03C D05-H12 D05-H12D2
Oestrus cycle determination	B12-K04A6 B12-K04G2E C12-K04A6 C12-K04G2E	insulating for capacitors	A08-P08	antisense sequences modified	B04-B03F+ C04-B03F+ D05-H12D1 D05-H12D1 D05-H12D3
Office equipment	A12-D05+	pollution of water by, treatment	D04-B02 D04-B03 H03-G H05-L02	primers	D05-H12D1
Office use, polyethylene in	A04-G02E3 A12-D05+	preservation, by additives	D10-A03	probes	D05-H12D1
Office, polypropylene use in	A04-G03E1 A12-D05+	production from raw materials	D10-A01	triple-helix forming	D05-H12D3
Oil baths, heat treatment of iron and steel	M24-D02C	proofing textile - see Oil		Oligosaccharides	B04-C02X C04-C02X
Oil cloths		repellant textile treatment recovery	A12-W10B	Omega-aminocaproic acid condensant	A01-E04
general	F04-B01	refining	D10-A02	Omega-aminoenanthic acid condensant	A01-E04
with polyurethanes	F04-B01A	removal from water	A12-W11+ D04-B02 D04-B03 J01-D03	Omega-aminoundecanoic acid condensant	A01-E04
with polyvinyl chloride	F04-B01B	repellants as - see Oil		On-site foaming of polyurethanes	A11-B06+ A12-S02A
Oil lifting equipment	H01-D01	repellant textile treatment		Oncogene	B04-E02G B04-E03G C04-E02G C04-E03G
Oil repellant textile treatment non-resinous	A12-S05R F03-C02	repellants as additives for polymers	A08-S08	Onium compounds as disinfectants other than of food or air	D09-A01B
resinous	A12-G03 F03-C02	repellants as textile finishes/treatment	A12-G03 D10-A04 A12-W11+ D04-B02 D04-B03	Open cell foams	A12-S+
Oil shale production and treatment	H01-D10	separation of mixtures of slick control		Open hearth process	M24-B02B
Oil testing methods	H01-E03	textile finishes - see Oil		Open-end spinning	F01-G05
Oil well consolidation	H01-C09	repellant textile treatment unhalogenated	B04-B01C C04-B01C	Opening of fibres	F01-F03
control equipment	H01-B03B	Ointments	B12-M02 C12-M02	Ophthalmic lenses	A12-L02A A12-V02A D09-C01A
Oil wells (polymer use)	A12-W10+	Oleandomycin	B02-O C02-O	Ophthalmic preparations	B12-L04 B14-N03 C12-L04 C14-N03
Oil-in-water dispersion of polymers	A07-B+	Olefinics		Opium alkaloids	B04-A04 C04-A04
Oiling agents for fibres	A08-M03A	di-unsaturated polymers	A04-B+	Optical (electro-) uses	A12-E11+
Oiling of fibres	F01-H06+	hydrocarbon polymer	A04-B+	Optical application of glass	L01-L05
Oils	D10-A	adhesives	A12-A05+		
additives, methacrylate		mono-unsaturated monomers	A01		
		mono-unsaturated, aromatic polymer	A04-C		
		monomer as crosslinking/ curing agent	A08-C07+		

Optical bleaches	A08-E03C E24-A F03-B01 F05-A06D	silicones	A06-A00E4 A12-L+	Organolithium catalysts for polymerisation	A02-A07+
addition to paper		Optically anisotropic melt of polymers	A09-A02A	Organometallic compounds	B05 C05 E05
Optical bleaching of fabrics	F03-B01 A11-A01+	Optically anisotropic/ anisotropy of polymers	A09-A02A	activator for Ziegler type catalysts	A02-A07A
Optical brighteners for detergents	E24-A D11-B01	Optically readable records	A12-L03C	catalysts (excluding transition metals)	A02-A07+
for fabrics	F03-B01	Opto-electronics	A12-E11+ L03-G	complexes (general)	E05-W
for paper	F05-A06D	devices	L03-G10	condensants (for polymers)	A01-A04
inorganic pigments	A08-E02	electrophotographic production of materials	G06-D06B L03-G	monomer	A01-A04
organic	A08-E03C	Ordered copolymerisation by addition	A10-C+	Organophosphorus compounds	B05-B01 E05-G
removal from water	D04-B06B	Ore (non-ferrous) treatment concentration	M25-A M25-A01	Organoselenium or -tellurium compounds	B05-B01D C05-B01D C05-B01D E05-K
Optical cables coatings	G02-A05H	sintering, crushing, roasting, briquetting	M25-A02	Organosilicon compounds	B05-B01B C05-B01B E05-E
Optical cables (polymer use)	A12-L03A F04-G01	Ore treatment for iron and steel manufacture	M24-A01	Organosols of polymers	A12-S
Optical ceramic oxides	L02-G10	Organs, artificial	B11-C04F C11-C04F	Orientation fibres	A11-B02B F01-C06 A11-B02A
Optical cards	L03-G04B5	Organ preservation	D09-A03A	films	A11-B02+
Optical discs coatings	L03-G04 L03-G04B4	Organelles/minicells	B04-F12 C04-F12	polymers	A11-B02+
photographic use	G06-D07	Organic coatings on glass sheet	L01-G04B	Orlon®	A04-D02+ A04-D03+ F01-D02
polymer use	A12-L03C	of polymers	A12-B05	Orphan G protein coupled receptor	B04-K01 C04-K01
Optical fibres	F04-G01 L01-L05 G02-A05H	Organic compounds catalyst	N05	Orthopaedic casts	A12-V03A
coatings		Organic photoconductors for radiation sensitive system	G06-F06	Orthophosphoric acid (and salts)	B05-B02A C05-B02A E31-K
manufacture-glass film deposition	L01-F03F3	Organic pigments	A08-E04	Orthophosphoric acid, alkyl ester	B05-B01P C05-B01P E05-G09C
polymer use	A12-L03A	Organic semiconductors materials	L04-A04 A12-E07C	Osmium alloys	M26-B01 M11-A05 M25-G20
Optical filters (electro)photographic production of	A12-L03D G06-D06B	polymer use in	A12-E07C	electrodeposition production	N02-E
Optical glass component coating	L01-G04D	Organic substrates		Osmium catalysts	N02-E
Optical glass fibres	L01-F03M	Metal coatings, processes	M13-F03C	Osmium compounds	B05-A03B C05-A03B E35-X E05-N E05-N02A
cable manufacture	L01-F03L	Organic treatment of pigment/filler	G01-B03	inorganic	
coating	L01-F03A1	Organic waste fermentation	D05-A04A	organic	
core and sheath manufacture	L01-F03F1	Organo silane adhesion improvers	A08-M01D	Osmosis	J01-C03
cutting and joining	L01-F03H	Organoaluminium + transition metal (compound) polymerisation catalyst	A02-A06C	in water treatment reverse	A12-W11A
drawing and spinning	L01-F03G	Organoaluminium compound (not with transition metal/ compound) as polymerisation catalyst	A02-A07C	Osmotic pump	B12-M01A1 C12-M01A1
manufacture, multicore and elliptical single core	L01-F03J	Organoantimony compounds	B05-A02 C05-A02 E05-J	Osteoarthritis treatment	B14-C09A C14-C09A
manufacturing apparatus	L01-F03K	Organoarsenic compounds	B05-B01C C05-B01C E05-H	Other condensation polymer coatings	A12-B01V
preform manufacture	L01-F03F	Organoboron compounds	B05-B01A C05-B01A E05-C E05-C01 E05-C02	Osteogenesis treatment	B14-N01B C14-N01B
with preformed sheath and core	L01-F03F4				
Optical memory elements	L03-G04B				
Optical parts of vehicles (polymer use)	A12-T04A				
Optical processes	B11-C08J C11-C08J				
Optical properties of polymers	A09-A02+				
Optical sensitisers	G06-H07+				
Optical storage media, photographic use	G06-D07				
Optical uses of (meth)acrylamide (co)polymer	A04-D04A1 A12-L+				
(meth)acrylate (co)polymer	A04-F06E4 A12-L+				
polymers	A12-L+				
PVA	A10-E09B2 A12-L+				

Osteoporosis treatment	B12-J08 B14-N01A C12-J08 C14-N01A	Oxidase agonists	B14-L01A1 C14-L01A1	Oxidoreductase inhibitors	B12-G01B1 C12-G01B1 B14-D05 C14-D05
Other processes, appts.	B11-C09 C11-C09	Oxidase inhibitors	B14-D05A C14-D05A	general and other	
Apparatus	B11-C09B C11-C09B	Oxidation		Oxidoreductase production by fermentation	D05-C03B
Processes	B11-C09A C11-C09A	LOCOS	L04-C12C3	Oxime	B10-A18 C10-A18 E10-A18 E10-A18A E10-A18B
Oto-rhino laryngology	C12-L04	polymers	A10-E11		
Outerwear	A12-C03 F04-C03	sewage and waste water water	D04-B08 D04-A01K D04-A01K1 D04-A01K2 D04-B08	Oxirane	B07-A03 C07-A03 E07-A03
Outset moulding	A11-B12+	water using ozone	D04-A01K1	condensant	A01-E07
Ova	B04-F03 C04-F03	water using other	D04-A01K2	Oxonium compounds	B10-A01 C10-A01 E10-A01
Oven cleaners	D11-D01B1	Oxidation base, for dye (general)	E26	organic	E10-A01
Ovicide	C12-B04	Oxidation process	B11-C01 C11-C01 E11-E A10-E11	Oxy-diethanol condensant	A01-E14
Ovulation inhibitors	B12-G01 B14-P01B C12-G01 C14-P01B	for polymers	A10-E11	Oxygen (element)	B05-C08 C05-C08 E31-D E11-E01
Oxacyclobutanes	B07-A03 C07-A03 E07-A03C A01-E08	other than with air or oxygen (O2) (catalytic) with air	N07-C03 E11-E01 N07-C01 E11-E01 N07-C01	in oxidation reaction	E11-E01
condensants		with air (catalytic)	N07-C01	Oxygen catalyst for polymerisation	A02-A01
Oxadiazole	B07-E04 C07-E04 E07-E04	with oxygen (O2)	E11-E01	Oxygen catalysts	N04-A
Oxalic acid	B10-C02 C10-C02 E10-C02D E10-C02D1	with oxygen (O2) (catalytic)	N07-C01	Oxygen halide (organic)	B10-A02 C10-A02 E10-A02
Oxanol spectral sensitiser	G06-H07C	Oxidative polymerisation	A10-D06	Oxygen stabiliser	A08-A06
Oxathiazine	B07-G C07-G E07-G	Oxide catalyst carrier for polymerisation	L02-G12 A02-D	Oxygenase agonists	B14-L01A1 C14-L01A1
Oxathiazole	B07-G C07-G E07-G	Oxide coating of metals by surface reaction	M14-D01	inhibitors	B14-D05C C14-D05C
Oxathiole	B07-C C07-C E07-C	Oxide layers for semiconductors	L04-C12A	Oxygenating devices (polymer use)	A12-V03B
Oxazine (excluding morpholine)	B07-E02 C07-E02 E07-E02 A01-E06	Oxide network formers in glass composition	L01-A07A	Oxyhalides of transition metals as polymerisation catalyst	A02-A06B
condensants		Oxides of non-transition metals as polymerisation catalysts	A02-A07+	Oxytetracycline	B02-T C02-T
Oxazole	B07-E01 C07-E01 E07-E01	Oxides of transition metals as polymerisation catalysts	A02-A06A	Oxytocin	B04-J05A C04-J05A
photographic brighteners	G06-H09A	Oxides, abrasive, harsh	L02-F04	Oxyuris treatment	B12-B02 B14-B03A C12-B02 C14-B03A
Oxazoli(di)nes condensants	A01-E06	Oxides, inorganic (general)	B05-C08 C05-C08 E31-D L02-G+ L02-G12	Ozone	B05-C08 C05-C08 E31-D J03-A01
Oxazolines chain couplers for polymers	A02-B	preparation	L02-G12	generation	J03-A01
Oxepine	B07-A03 C07-A03 E07-A03C	Oxidised polymers	A10-E11	Ozone catalysts	N04-A
Oxetane	B07-A03 C07-A03 E07-A03C	Oxidising agents	A08-C05 A08-D	Ozone stabiliser	A08-A05
condensants	A01-E08	as crosslinkers	A08-C05 A08-D	Ozonisation of polymers	A10-E11
		as polymerisation catalysts	A02-A+	Ozonised polymer	A10-E11
		Oxidising agents as disinfectant other than of food or air	D09-A01A		
		Oxidising, using gas	M13-D03B		
		Oxidoreductase	B04-B02C2 B04-L03 C04-B02C2 C04-L03		
		Oxidoreductase agonists	B14-L01A1 C14-L01A1		
		Oxidoreductase enzyme process	D05-A01B1 D05-A02A		

**P**

Package formation of yarns	F01-H03D	hydroxyalkyl acrylates	A12-B01E G02-A02C2	general addition polymer	A12-B01W
Packaging involving heat sealing/welding	A11-C01A1	addition polymer, other, vinyl halide polymer	A12-B01F G02-A02D2	general condensation polymer	A12-B01X
Packaging materials using films (laminates)	A12-P01A	addition polymers, other	G02-A02D	magnetic	L03-B02H
glass	L01-L06	addition polymers, other, diene or polyene polymers	A12-B01C G02-A02D1	pigments (organic)	A08-E04 G02-A03A
polyamide	A05-F01E3 A12-P+	addition polymers, other, unsaturated aromatic (styrenic) polymers	A12-B01G G02-A02D4	powder forms	A12-B01+ A12-S09
polyethylene	A04-G02E2 A12-P+	addition polymers, other, vinyl ester or unsaturated acid polymer excluding acrylic	A12-B01F A12-B01H G02-A02D3 G02-A02E	road, traffic signs	A12-R G02-A05F
polypropylene	A04-G03E1 A12-P+	alkyd resin	A12-B01J	skin	B12-M02 C12-M02
saturated polyester	A05-E01D3 A12-P+	aminoplasts	G02-A02F A12-B01A	solvent based	A12-B01B
Packaging of coffee	D03-D01A	emulsions	A12-B01L	water based	A12-B01A
electr(on)ic devices	L03-J02	epoxy resins	G02-A02G A12-B01C G02-A01+	Palladium alloys	M26-B01 L01-A02B
fabrics	F04-F04	inorganic film formers	A12-B01D G02-A02A G02-A02+ A12-B01J G02-A02F	containing glass	M11-A05
food	D03-K03	inorganic polymer, silicone, or diene/polyene polymers	A12-B01E B01C	electrodeposition	M25-G20
glass	L01-J04	natural polymers	A12-B01D G02-A02A	production	N02-F N02-F02
pharmaceutical and agricultural compositions	B12-M04 C12-M04 G06-E	organic film formers	A12-B01H G02-A02E	Palladium catalysts	N02-F01 A02-A06+
photographic materials	A11-C06	phenoplasts	A12-B01J G02-A02F	element, not on C	N02-F01
plastics	L04-C21	polyesters	A12-B01H G02-A02E	element, on C	A02-A06+
semiconductor devices	D03-D02A	polymer (general)	A12-B01+ A12-B01K G02-A02H	Palladium compounds	B05-A03B C05-A03B N02-F04 E35-X N02-F03 E05-M E05-M02C
tea	F01-H03+	polyurethanes	A12-B01C G02-A01A A12-B01B	carboxylate catalysts	N02-F04
yarns	F01-H03+	silicones	A12-B01C G02-A01A A12-B01B	inorganic	E35-X
Packaging types	A12-P+	solvents	A12-B01B	inorganic salt catalysts	N02-F03
aerosol containers	A12-P06A	vinyl ester, or halogen containing addition polymers	A12-B01F A12-B01A	organic	E05-M E05-M02C
bags	A12-P02	water	A12-B01A	Palladium in glass composition	L01-A02
blister packs	A12-P06C	Paint brushes	A12-D03	Pallets	A12-T
boil-in-bag packs	A12-D03 A12-P02	Paint spray booths	G02-A06A	Pancakes	D01-B02F
bottles	A12-P06A	cleaning/maintenance	G02-A06A	Pancreas treatment	B14-N13 C14-N13
boxes, cartons, crates	A12-P06B	Paint, based on	A12-B01W	Pancreas, artificial	D09-C01C
closures	A12-P03	general addition polymers	A12-B01X	Pancreatic hormone	B04-B02D2 C04-B02D2
collapsible tubes	A12-P06C	general condensation polymers	A12-B01X	Pancreatic hormone general	B04-J03 C04-J03
drums	A12-P05	Painting, general	A11-B05+ G02-A06+	Pancreatitis	B14-N13
film and laminates	A12-P01A	Paints	A12-B+ G02-A+	Pancreozymin	B04-J13 C04-J13
foam use in	A12-S04C	additives	G02-A03+ G02-A+	Panels	A12-A04A A12-D01 A12-S08A A12-R02B A12-R07
rigid packs	A12-P06B	applied to cloth/felts	A12-B02+	decorative laminate	A12-A04A
sachets	A12-P06C	applied to glass/glass fibre	A12-B05	furniture	A12-D01
sacks	A12-P02	applied to inorganic material	A12-B08 A12-B06 A12-B04+	of reinforced polymer	A12-S08A
shrink	A12-P04	applied to leather	A12-B08	solar	A12-R02B
tanks	A12-P05	applied to metal	A12-B06 A12-B04+	wall, ceiling	A12-R07
wrapping film	A12-P01A	applied to others	A12-B	Panes, window	A12-R04
Packing of polymer materials	A11-C06	applied to paper	A12-B03	Pans	A12-D03
Packing, sealing compositions	A12-R08 G04-B02	applied to polymer	A12-B07+	Pantographs	L03-A01A4
Pails	A12-D04	applied to wood/cellulosics	A12-B09	Pants, baby	A12-V03A D09-C03
Paint based on	A12-B01E G02-A02C	chemical removers	A11-C07	Panty hose	F04-C01 F04-C02
acrylics	A12-B01E G02-A02C			Papain	B04-B02C3 B04-L05C C04-B02C3 C04-L05C
acrylics, containing aminoalkyl acrylates	A12-B01E G02-A02C3			Papaverine	B04-A04 C04-A04
acrylics, containing epoxy	A12-B01E G02-A02C1				
acrylics, containing					

Paper	A12-W06+ B04-C02A C04-C02A F05-A+	Paraffins (aliphatic hydrocarbon)	B10-J02 C10-J02 E10-J02D	Passivating layers, plastics for semiconductor devices	A12-E07C L04-C12E
addition of non-polymer	F05-A06D	Parasite		Passivation coating of metal	M14-D
addition of polymer or resin	A12-W06+	microbial	B04-F01 C04-F01	chromate layer	M14-D03
				oxide layer	M14-D01
coatings on	F05-A06C A12-B03 F05-A06B G02-A05C F05-A06+	Parasympathetic blocker	B12-E04 B14-J02B C12-E04 C14-J02B	phosphate layer	M14-D02
composition				Passive deodorisation/ disinfection	D09-B01C
composition, containing polymer	A12-W06+ F05-A06C F05-A05	Parasympathetic stimulant	B12-E05 B14-J02A C12-E05 C14-J02A	Pasta	D01-B02E
cutting	F05-A05			Paste	A12-S10 B12-M02 C12-M02
felts, use of fabric	F04-E05A			polymeric coating process	A11-B05D
felts, use of polymer	A12-H04	Parasympatholytic	B12-E04 B14-J02B C12-E04 C14-J02B	Pasteurising food	D03-H02
manufacture	A12-W06+ F05-A+			Pastilles	B12-M01 C12-M01
manufacture, fibreboard	F05-A07	Parasympathomimetic	B12-E05 B14-J02A C12-E05 C14-J02A	Pastry products	D01-B02D
multiply	F05-A06A			Patient compliance methods	B11-C11A C11-C11A
testing	F05-A05	Parathyroid hormone	B04-B02D3 B04-J04B C04-B02D3 C04-J04B	Pathology (polymer use in)	A12-V03C2
Paper making machine	A12-H+ F05-A04+ F05-A05			Pattern cards for (including design)	
accessories	F05-A05	Parathyroid hormone	B04-B02D3 B04-J04B C04-B02D3 C04-J04B	knitting machines	F02-B01
complete	F05-A04D			looms	F02-A02
dewatering	F05-A04B	Paresis	B12-E02 C12-E02	Pattern control in	
embossing equipment	F05-A05B			knitting	F02-B01
forming equipment	F05-A05B	Parisons		weaving	F02-A02
head boxes	F05-A04A	(pre)heating of	A11-A02B	Pattern plates	M22-C02
methods of producing paper	F05-A04+	blow moulding of	A11-B10	Patterning processes for	
press and drier sections	F05-A04C	glass, formation	L01-E02	printed circuits	L03-H04E2
stamping equipment	F05-A05B	Parkinson's disease		Patterns, foundry	M22-C
testing equipment	F05-A05A	Parkinson's disease treatment	B12-C04 B14-J01A3 C12-C04 C14-J01A3	Patterns, lost	M22-C01
wet end, general	F05-A04A			Paving compositions	A12-R09
Paper making process		Partially hydrolysed		PBT	A05-E04+ F01-D04
addition polymer in pulp (cellulosic)	A12-W06B F05-A06C	ethylene-vinyl acetate copolymer	A10-E09+ A10-E09+	fibres	
cleaning/sterilisation of equipment	F05-A04E	polyvinyl acetate		PCTFE	A04-E10D
condensation polymer in pulp (cellulosic)	A12-W06C F05-A06C	Particle accelerator, use of electro(in)organics	L03-H04D	PE	A04-G02+
from non-cellulosic polymer	A12-W06A	Particle board	F05-A07 A12-A04B	Peat	B04-A07D1 B04-A09J C04-A07D1 C04-A09J H09-B
		particle use in	B11-C13 C11-C13	Pectin	B04-C02D C04-C02D
mechanical treatment of fibrous raw material	F05-A01	Particle engineering		Peek ®	A05-J10
methods	F05-A04	Particle counters		Pellet	B12-M11D C12-M11D E12-A06
natural polymer in cellulosic pulp	A12-W06D	for neutrons	K08-A01	Pelleting	J04-A05 A11-A04
polymer use in, general	A12-W06+ F05-A06C	for charged particles	K08-A02	of polymers	
pretreatment of digested material	F05-A03	for gamma and cosmic rays	K08-A03	Pellets as carriers for microorganisms	D05-A03A
pulp after-treatment	F05-A02B	for X-rays	K08-A04	Pellicle design/manufacture	L04-C06A1
pulp purification	F05-A03	Particles	E12-A08	Pelmets	A12-R02
pulping	F05-A02A	Particles of polymers	A12-S09+	Pelt shearing machine	D07-A
regeneration of pulp liquor	F05-A02C	Particulate forms	E12-A08	Pencil (lead)	G02-A04
testing	F05-A05A	Parylene ®	A05-J	containing polymer	A12-D05B
PAPI condensant	A01-E02	Passivating and insulating layers for semiconductor devices	L04-C12	Pendant device	B12-M10A5 C12-M10A5
Papier-mache, manufacture of articles	F05-A07	Passivating layers, glass for semiconductor devices	L04-C12D		
Parachutes	F04-E02				
Paraffin wax	B04-B01C C04-B01C				
lubricant	A08-M03+				

Penicillins		Permeability		use of polymers	A12-W04C
6-acetamido other	B02-P03 C02-P03	property of polymer	A09-A09	PET	A05-E04+
6-acetamido, alpha-substituted by N-atom	B02-P02 C02-P02	Permeability reducers	A12-W10C	dyeing of	F03-F07+
general	B02-P C02-P	Permeable membranes	A12-W11A J01-C03	fibres, chemical features of	F01-D04A
Pens	A12-D05B	for water treatment	D04-A01D	pH Monitoring	J04-C02A
Pentacene	B08-B C08-B E08-B	Per mucosal administration	B12-M11F C12-M11F	Petroleum	
1,3 Pentadiene (co)polymers monomer	E10-J02C A04-B A01-C05	Peroxidases	B04-L03B C04-L03B	chemicals general	A01-B04
Pentaerythritol condensant	E10-E04H3 A01-E14	agonists	B14-L01A1 C14-L01A1	coke	H08-E02
tetraacrylate (co)polymers	A04-A03	inhibitors	B14-D05B C14-D05B	fuel additives	A12-T03B H06-D
tetraacrylate monomer	A01-B03	Peroxide		liquid paraffin	B04-B01C3 C04-B01C3
Pentane volatile blowing agent	A08-B04B	catalysts	N04-A	nuclear applications to	K09-H
Penton ®	A05-H	catalysts, polymerisation	A02-A01	product, miscellaneous	H08-E
Pepsin antagonist	B12-G01B3 B14-D07C C12-G01B3 C14-D07C	crosslinkers	A08-C05 A08-D	resins	A03-C04
Peptide hydrolases	B04-L05C C04-L05C	redox catalyst for polymerisation	A02-A03	resins, in polymeric blend	A07-A01A
Peptide nucleic acid	B04-E10 C04-E10 D05-H12D9	Peroxide disinfectants (not of food or air)	D09-A01A	resins, production	A10-A
Peptising agents for polymers	A08-M08	Peroxide, inorganic (general)	B05-C08 C05-C08 E31-E	Phage lambda	B04-F11 C04-F11
Peracid, inorganic (general)	B05-C08 C05-C08 E31-E	Hydrogen peroxide	E31-E01	Phage display libraries	B11-C10D C11-C10D
Perchlorinated polymers	A10-E04A	Inorganic peroxide (general)	E31-E05	Phagemids	B04-E08 B04-F11 C04-E08 C04-F11
Perchlorination	A10-E04A	Perborate	E31-E04	Phagocytosis treatment	B12-D02 C12-D02
Perchlorovinyl polymer	A10-E04A	Percarbonate	E31-E02	Pharmaceutical antidote general	B14-M02 C14-M02
Percutaneous	B12-M02F C12-M02F	Persulfate	E31-E03	Pharmaceutical composition general	B12-M05 C12-M05
Perfluoroalkyl acrylate polymers	A04-E10D	Peroxide, organic	B10-A04 C10-A04 E10-A04B+	machine for producing	B11-C05 C11-C05
Perfluoroalkyl methacrylate polymers	A04-E10D	Peroxide, vulcanising agent (addition polymers)	A08-C05	Pharmaceuticals	A12-V01
Perforating polymers	A11-A05A	Peroxisome proliferator activated receptor	B04-K01X1 C04-K01X1	Pharmacogenomics	B12-Q01A C12-Q01A
Perfumes	B12-L07 B14-R04 C12-L07 C14-R04 D10-A05	Persalts - see also Peroxide crosslinker	A08-C05 A08-D	Pharynx cancer	B14-H01F C14-H01F
in air (masking)	D09-B04	polymerisation catalyst	A02-A01	Phenanthrene	B08-D02 C08-D02 E08-D02
in cosmetics	D08-B12	redox catalyst for polymerisation	A02-A03	Phenanthridine	B06-D13 C06-D13 E06-D13
in detergents	D11-B23	Personal face/body wash	D08-B09A2 D08-B09A2A D08-B09A2B	Phenanthroline	B06-D15 C06-D15 E06-D15
Perhalate (organic)	B10-A02 C10-A02 E10-A02	Liquid	D08-B09A2A	Phenazine	B06-D14 C06-D14 E06-D14
Periodontal treatment	B14-N06B C14-N06B	Solid	D08-B09A2B	Phenol	B10-E02 C10-E02 E10-E02B E10-E02B1 E10-E02E E10-E02E1
Peripheral vascular disorder treatment	B14-F02F+ C14-F02F+	Personal care compositions	D11-D01J	Phenol based	
Perlon ®	A05-F03	Personnel dosimeter	K07-A01	aldehyde resin (excluding formaldehyde)	A05-C04
		Perspex ®	A04-F06+	formaldehyde resin	A05-C03+
		Persulphates - see also Peroxide crosslinker	A08-C05 A08-D	ketone resin	A05-C
		polymerisation catalyst	A02-A01	terpene resin	A05-J
		redox catalyst for polymerisation	A02-A03	Phenol blocking agent	A02-C
		Pesticide (general)	B12-N01 B14-B01 C12-N01 C14-B01		
		antidote	B12-J05D B14-M01E C12-J05D C14-M01E		

Phenol, condensant	A01-E13	Phlogistic	B14-C05 C14-C05	Phosphorus containing aliphatic (or alicyclic) compounds with P-C bond	B05-B01G C05-B01G E05-G03
Phenol, thio - see also Thiophenol	B10-E01 C10-E01 E10-E01+	Phosgene condensant	A01-E12	with P-halogen bond	B05-B01H C05-B01H E05-G03A B05-B01L C05-B01L E05-G06
Phenolic compound removal from water	D04-B06A	Phosphate coating of metal by surface reaction	M14-D02	with P-N bond	B05-B01P C05-B01P E05-G09
condensants	A01-E13	Phosphate glass compositions	L01-A07A	with P-O (or S) bond	B05-B01F C05-B01F E05-G02
crosslinkers for other polymers	A08-D	Phosphates plasticisers/ extenders	A08-P05	with P-halogen bond	B05-B01H C05-B01H B05-B01K C05-B01K E05-G05
crosslinkers for unsaturated polymers	A08-C09	Phosphates see also Phosphorus compounds		with P-N bond	B05-B01J C05-B01J E05-G04
disinfectants (not food or air)	D09-A01B	Phosphatides	B04-B01B B05-B01P C04-B01B C05-B01P D03-F07	with P-O (or S) bond	B05-B01M C05-B01M E05-G07
fibres	A05-C+ A12-S05+	Phosphide ceramic	L02-H03	with P-halogen bond	B05-B01E C05-B01E E05-G01
Phenols, glycidyl ethers of	A05-A02	Phosphodiestherases	B04-L05A1 C04-L05A1	with P-N bond	B05-B01I C05-B01I B05-B01J C05-B01J E05-G04
Phenoplast adhesives	A05-C+ A12-A05D G03-B02E1	Phospholipids	B04-B01B B05-B01P C04-B01B C05-B01P D03-F07	with P-O (or S) bond	B05-B01N C05-B01N E05-G08
coatings, paints, varnishes	A12-B01J G02-A02F	Phosphonitrile linear polymers	A06-B	with P-halogen bond	B05-B01E C05-B01E E05-G01
electrophotographic use	A05-C01B2	Phosphonitrilic halides condensants/monomer	A01-A02	with P-N bond	B05-B01F C05-B01F E05-G02
fibres	A05-C+ A12-S05+	Phosphonium compounds aliphatic or alicyclic	B05-B01G C05-B01G E05-G03A	with P-O (or S) bond	B05-B01I C05-B01I B05-B01J C05-B01J E05-G04
fibres, chemical features of	F01-D10	aromatic	B05-B01F C05-B01F E05-G02	with P-halogen bond	B05-B01H C05-B01H B05-B01J C05-B01J E05-G04
foams	A12-S03	heterocyclic	B05-B01E C05-B01E E05-G01	with P-N bond	B05-B01I C05-B01I B05-B01J C05-B01J E05-G04
from monohydric phenol and aldehyde (excluding formaldehyde)	A05-C04	Phosphorus (element) production use	B05-B02A3 C05-B02A3 E31-K04 E31-K07	with P-O (or S) bond	B05-B01M C05-B01M E05-G07
from monohydric phenol and formaldehyde	A05-C03+	Phosphorus catalyst for polymerisation	N04-B A02-A+	Phosphorus incorporated/ incorporation by polymer modification	A10-E20
from polyhydric phenol in polymeric blends	A05-C02	Phosphorus compounds inorganic	B05-B02A C05-B02A E31-K	Phosphorus oxide production use (excluding catalysts) use in catalysts	B05-B02A3 C05-B02A3 E31-K04 E31-K07 E31-K01
photographic use	A05-C01B2	inorganic, removal from water	D04-B07B	Phosphorylation	A10-E20
resins	A05-C01+	organic	B05-B01 E05-G	Photocatalysts for polymerisation	A02-A09
resins, compositions/ production	A05-C01A	Phosphorus containing condensant cross-linker (including polymer)	A01-A02 A08-C+ A08-D05	Photocatalytic apparatus	J04-E09C
resins, uses	A05-C01B+	detergent additive, inorganic	D11-B21	Photochemical process	B11-C01 C11-C01 E11-P
specific others	A05-C	detergent additive, organic	D11-B18	Photochromic dye precursor	E26 E26-B
Phenothiazine	B06-F04 C06-F04 E06-F04	flame retardant for polymers	A08-F03	Photochromic materials	G04-A01 L03-G09R
Phenoxazine	B06-E04 C06-E04 E06-E04	flame retardant for textiles	F03-C03A	Photoconductive polymer for electrophotography	A12-L05B G06-F03A
Phenoxy resins	A05-H06	monomer	A01-A02	Photoconductors polymeric	L04-E05B A12-L05B G06-F03A
Phenyl acrylate homopolymer	A04-F06+	plasticiser (esters)	A08-P05		
Phenyl amine condensant	A01-E05	polymer	A06-B		
Phenyl methyl ketone crosslinker for other polymer	A08-D				
crosslinker for unsaturated polymer	A08-C				
photocatalyst for polymerisation	A02-A09				
Phenyl naphthylamine antioxidant	A08-A06				
Phenylene diamines condensants	A01-E05				
Phenylene dichloride condensants	A01-E				
Phillips-type catalysts	A02-A06+				



Photoconductors for radiation sensitive system inorganic	G06-F+ G06-F07+	Photography, special techniques	G06-E+	Phthalic anhydride condensant	E06-A02 A01-E11
inorganic, containing zinc oxide or selenium	G06-F07A	Photohardening	A11-C02B	Phthalic condensants	A01-E11
organic polymer	G06-F06 G06-F03A	Photoinitiators catalysts for polymerisation	A02-A09	Phthalimides, vinyl (co)polymers monomer	A04-D08 A01-D01
Photocopying, electrostatic	A12-L05+	crosslinkers for other polymers	A08-D+	Phthalocyanine dye water insoluble	E23 E23-B
Photocrosslinking	A11-C02B	crosslinkers for unsaturated polymers	A08-C+	water soluble	E23-A
Photodevelopable material for photosensitive system	G06-C07	Photomasking opto-electronics printed circuits	G06-D06B G06-D06A G06-E02 L03-H04E2 G06-D06A G06-E02 L03-H04E2	water soluble, non-reactive	E23-A02
Photodiodes	A12-E11A	semiconductor		water soluble, reactive	E23-A01
Photoelectric cells	A12-E11B	Photopolymerisation of addition (co)polymers	A10-B06	Phylloquinone	B03-J C03-J
Photoelectric elements (production)	G06-D06	Photoresists printing	G06-D04 G05-B	Physical process (general)	E11-R
Photoelectric materials	L03-G09J	Photoresists (polymer use)	A12-L02+	Physical properties, testing	A09-C
Photographic agent (miscellaneous) apparatus binder	G06-H+ A12-L02A A12-L01 A12-L05D	Photoresists materials for printed circuit boards for semiconductor	L03-G09P L03-H04E2 L04-C05	Physical treatment of pigment/filler	G01-B01
equipment film support material	A12-L02A A12-L01 A12-L02+	Photosensitive materials microencapsulated	A12-L02+ G06-C16	Physical treatment of pigment/filler	G01-B01
material, composition for electrical device	A12-L02B2	Photosensitive polymer for radiation sensitive system	A12-L02+ G06-F03+	Physical vapour deposition of ceramics	L02-A02B
material, composition for printing plate	A12-L02B1	additives for (e.g. photosensitisers)	G06-F03D	of metal	M13-F
material, compositions containing other photosensitive polymer	A12-L02E	light sensitive composition containing monomer	G06-F03B	Physiological amelioration of potable water by specific additives	D04-A04
material, compositions containing unsaturated monomer	A12-L02C	light sensitive polymer containing compositions	G06-F03C	Physiological response in animals or plants test	B11-C08E2 C11-C08E2
polymers	A12-L02D	polymeric photoconductors	G06-F03A	Phytohormone	B12-P04 C12-P04 C14-U01C
process, general	A12-L02+	resin system development system (type)	G06-G17 G06-C+	Pi bonded complex catalyst	N05-B
process, general, apparatus (including lenses)	A12-L02A A12-L01 G06-B+	Phototransistors	L04-E01G	Picene	B08-B C08-B E08-B
support		Photovoltaic devices, photoelectric cells but see L03-E05 for solar cells	L04-E05D	Pickling foods	D03-H02D
Photographic use of (meth)acrylamide (co)polymers	A04-D04A1 A12-L+	Phthalate plasticisers	A08-P02	Pickling metal with solutions or molten salts apparatus disposal/regeneration processes	M12-A M12-A04 M12-A03 M12-A05 M12-A01
(meth)acrylate (co)polymers	A04-F06E4	Phthalate, cellulose	A03-A03 B04-C02A3 C04-C02A3	solutions/salt mixtures solutions/salt mixtures, inhibitors for	M12-A02
phenoplasts, general	A12-L+ A05-C01B2	Phthalates, diallyl (co)polymers monomer	A04-B09 A01-C01	Picture frame	A12-D
polyamides	A12-L+ A05-F01E3	Phthalazine	B06-D06 C06-D06 E06-D06	Piezochromic dye (general)	E26
polyethylene	A04-G02E3 A12-L+	Phthalethrin	B04-A07C C04-A07C	Piezoelectric ceramic oxides compositons devices	L02-G07B A12-E15 A12-E15
polypropylene	A04-G03E1 A12-L+	Phthalic (iso-, ortho- and tere-) condensant	A01-E11	material polymer use transducers	L03-G10 L03-G09A A12-E15 L03-G10A
PVA	A10-E09B2 A12-L+	Phthalic acid	B10-C02 C10-C02 E10-C02C E10-C02C1B E10-C02C2B A01-E11	Pig casting	M22-G01
silicones	A06-A00E4 A12-L+	Phthalic acid condensant		Pig iron production by processing iron	M24-B01A
Photographically active materials released on processing, excluding dyes	G06-C15			Pig production, blast furnace by applying additives making slags of special composition	M24-A02 M24-A02A M24-A02B
Photography nuclear applications to	A12-L+ K09-G			Pigmenting	A11-A01+

Pigments	A08-E+	lining process	A11-B09A	sap	B04-A07D4
ceramic	L02-G04	lining product	A12-H02D		B04-A09H
compositions containing		mill (metal rolling)	M21-A03		C04-A07D4
polymer	A12-W11H	Piscicide	B12-N05		C04-A09H
for dyeing/printing fibres	F03-F17		B14-B11	stems	B04-A07D4
formulations	E27-A01		C12-N05		B04-A09H
inorganic	A08-E02		C14-B11		C04-A07D4
	G01-A+	Piston rings	A12-H08	whole	C04-A09H
magnetic	L03-B05D1				B04-A07D5
morphology of	E27-B01	Pitch	A03-C03		C04-A07D5
organic	A08-E04	in polymeric blend	A07-A01A	whole plants general and	
	E21			other	B04-A08
	E22	Pitches, sports	A12-F01A		C04-A08
	E23	Pituitary gland hormones	B04-B02D4	whole tobacco	B04-A08C2
	E24		B04-J05		C04-A08C2
	E25		C04-B02D4		
organic, for ink, crayons	G02-A04B	Pizza bases	D01-B02D	Plasma	
organic, for paint	G02-A03A	Placenta extract	B04-B04H	arc welding or cutting	M23-D01
polymeric, for ink	A12-W07E		C04-B04H	containment (fusion	
treatment of	G01-B+	Plaiting of fibres	F02-E01	reactors)	K05-A03A
				deposition (or ion) for	
Pile		Planes	A12-T+	semiconductor processing apparatus	L04-D04
cutting (fabrics)	F03-A	Planographic printing plate	A12-W07+	deposition in	
fabrics	A12-S05J		G05-A01	semiconductor layer growth	L04-C01B
Pile fabrics	A12-S05J	Plant extract general	E04-A	semiconductor layer growth apparatus	
	F02-G03	Plant or vessel scale,			L04-D04B
Piles treatment	B12-J04	prevention of	A10-G02	etching of semiconductors	L04-C07D
	B14-E04	Plant pots	A12-W04A	polymerisation	A10-B
	C12-J04	Plant repellents (additive		reactors	J04-X01
	C14-E04	for polymer)	A08-M02	spraying (flame) refractory	
Pill resistant fabric treatment		Plants		or ceramic	L02-A06
non-resinous	A12-S05R	angiosperms	B04-A08C2	spraying metal	M13-C
	F03-C04	antibodies to	C04-A08C2	techniques	K08-F
resinous	A12-G02	bryophytes	B04-G10	techniques, application of	
	F03-C04	cells	C04-G10	electro(in)organic materials	L03-H04D
Pilling prevention in fabrics	F03-C04		B04-A08A	treatment of polymer	
Pillows	A12-D01	extract general	C04-A08A	surfaces	A11-C04E
	F04-D01	extracts general and other	B04-B04A2	Plasma (blood)	
Pills	A12-V01	growth regulant (general)	C04-F08	substitute	B12-H06
	B12-M11	growth regulants	C04-F08		B14-F11
	C12-M11	gymnosperms	C04-B04A2	Plasmids	C12-H06
Pilo erecting	B12-L05	polysaccharides	C04-F08		C14-F11
	B14-R02	preservation	C04-A07F	Plasmin	B04-E08
	C12-L05	produced by tissue culture	C04-A07F		C04-E08
	C14-R02	protection from poisons	B04-A10	Plasminogen	B04-B02C3
Pipeline			C04-A10		B04-L05C
accessories	H03-B03		B12-P01	Plasminogen activator	C04-B02C3
control	J06-C02		C12-P01		C04-L05C
fluid loss additive	H03-B01		C14-U01		
installing	H03-B02		B04-A08C1		B04-B02C
repair	H03-B04		C04-A08C1		B04-L05C
system	J06-C01		B04-C02D		C04-B02C
testing	H03-B03		C04-C02D		C04-L05C
transporting oil or gas	H03-B		D09-A03B		
Piperazine	B07-D11		B04-A07D5	Plaster (building)	B04-H15
	C07-D11		B04-A08	board	C04-H15
	E07-D11		C04-A07D5		L02-D01
condensant	A01-E05		C04-A08		A12-R01A
Piperidine	B07-D05		B12-J05E	Plaster (medical)	L02-D07
	C07-D05		B14-M01F		A12-V03A
	E07-D05		C12-J05E		B12-M02
condensant	A01-E05		C14-M01F		C12-M02
Piperylene	E10-J02C		B04-B04A4	casts	D09-C04A
(co)polymers	A04-B		B04-N01	dental	A12-V03A
monomer	A01-C05		C04-B04A4	sticking	D08-A06
Pipes - see also Hoses	A12-H02+		C04-N01		B12-M02D
fittings	A12-H02C	pteridophytes	B04-A08B	Plastic coatings on glass sheet	C12-M02D
forming	A11-B08C		C04-A08B		A12-B05
					L01-G04B

Plastic mixing	A11-A03+	Plexifilaments	F01-E02	(modified polymer)	A10-E19
Plasticisation	A11-A03+	Plexiglas ®	A04-F06	Poly (chloromethyl substituted styrene) quaternised using tertiary amine	A10-E19
Plasticisers	A08-P+	Plugging, well (polymer use)	A12-W10C	Poly(1,3- imidazolidine dione-2, 4,5-trione)	A05-J02
coal tar fractions	A08-P08	Plumbic, plumbous compounds - see Lead		Poly(2,6-dimethyl-1,4-phenylene oxide)	A05-H07A
concrete additive	L02-D14E	Plutonium compounds	B05-A04 C05-A04 E35-R E05-Q	Poly(4-methylpentene- 1) (co)polymers	A04-G10
epoxy compound	A08-P07	inorganic		Poly(alkyl vinyl ketones)	A04-F03
ester, aliphatic, (excluding hydroxy acid)	A08-P04	organic		Poly(meth)acrylates in polymeric blends	A07-A+
ester, aromatic, (excluding phthalate)	A08-P03	Plying of yarns, fibres	F01-H01	Poly(N-methylol-methacrylamide)	A04-D04+
ester, hydroxy acid	A08-P06	Plywood	A12-A04C F05-B	Poly-p-xylylene resin	A05-J
ester, inorganic	A08-P05	PMMA	A04-F06+	Polyacetal resin production, composition	A05-H02+ A05-H02A
ester, Phosphorus containing	A08-P05	Pneumatic laying of non- woven fabrics	F02-C02+	Polyacrolein	A04-F02
oils	A08-P08	Pneumatic tyres	A12-T01+	Polyacrylamide - see also Acrylamide, polymer	A04-D04+
photographic phthalate	G06-H15	Poisoning by heavy metal treatment	B12-J05C B14-M01D C12-J05C C14-M01D	Polyacrylate polymer paint	A12-B01E G02-A02C+
waxes	A08-P08	Polarisers		Polyacrylic acid or anhydride - see also Acrylic acid or anhydride polymer	A04-F04+
Plastics		for liquid crystal displays	L03-G05B7B	Polyacrylic ester - see also Acrylate, alkyl polymer	A04-F06+
ceramic composite	L02-J02B	Polarity, optical	A09-A02A	Polyacrylonitrile - see also Acrylonitrile, polymer	A04-D02+
coating on glass	A12-B05 L01-G04	Polarography testing	B11-C08B C11-C08B	Polyacryloyl chloride	A04-E
coating on metal	A12-B04+ M13-H05	Polaroid ® - type development	G06-E03	Polyalkenamers	A04-G
nuclear applications	A12-W11C K09-A	Polishing		Polyalkylene oxide detergents	A05-H+ A12-W12+ D11-A03A
passivating layers for semiconductor devices	A12-E07C L04-C12E	glass	L01-G06	Polyalkyleneimines	A05-J07
storage substrates for printed circuits	A11-C06 A12-E07A L03-H04E1	metal, electrolytic	M11-H02	Polyallomer	A04-G06+
Plastification	A11-A03+	metal, non-electrolytic	M14-B	Polyallyl (2 double bonds) sucrose	A04-A03
Plastisol	A12-S10	polymer	A11-C04	Polyallyl alcohol	A04-F
Platelets	B04-F13 C04-F13	Polishing composition (excluding French)	A12-B01+ G02-C A12-A03 G04-B04 L02-F G02-B05	Polyamic acid	A05-J01+
Platens, flat, pressing between	A11-B13	abrasive		Polyamide imides	A05-F A05-J01+
Plates		French	B04-A09C C04-A09C B04-A10D C04-A10D	Polyamideester	A05-E07
magnetic recording	L03-B05B	Pollen		Polyamides (nylons)	A05-F+ B04-C03D C04-C03D
printing	A12-W07+	extracts		aromatic as cross-linkers	A05-F05 A08-C08 A08-D04
tableware	A12-D03	Pollution control		fabrication fibre filler	A05-F01C A05-F+ A08-R08A
Plating - see also Chemical plating, Electrodeposition and Non-Electrolytic deposition/coatings		marine oil	H03-G01	fibres, chemical features in production	A05-F+ F01-D03
Plating bath additives	A12-W12E	oil	D04-B	fibres, dyeing/printing	A12-S05N F03-F06+
Plating of polymers with metal	A11-C04B1	processes	A11-C07	in polymeric blends preparation from dimerised fatty acid and diethylenetriamine	A07-A+
Platinum		refineries	H05-L		
alloys	M26-B01	relative to use of fuels	H06-C		
containing glass	L01-A02B	Soil contamination	H03-G02		
electrodeposition	M11-A05	storage and transport	H03-G		
in glass composition	L01-A02	use of polymer	A12-W11+		
production	M25-G20	using coagulants	A12-W11E		
Platinum catalysts	N02-F	using coagulants, for water	D04-A01B		
carboxylate	N02-F04	using flocculants	A12-W11E		
element, not on C	N02-F02	using flocculants, for water	D04-A01B		
element, on C	N02-F01	using poly-electrolytes	A12-W11E		
inorganic salts	N02-F05	water treatment	A12-W11J		
Platinum compounds	B05-A03B3 C05-A03B3	Polonium catalysts	N03-H		
inorganic	E35-X	Polonium compounds	B05-A04 C05-A04		
organic	E05-N E05-N02C	inorganic	E35-R		
Pleating of fabrics	F03-A01	organic	E05-Q		
		Poly (4-vinyl-N-butylpyridinium bromide)			

tyre cord	A05-F01E A12-T01C F04-E01	Polycarbamates	A05-G+	Polyantholactam	A05-F03
Polyamine, with aromatic amino	B10-B01A C10-B01A E10-B01A	Polycarbodiimides	A05-J09	Polyene dye	E25-B
Polyamine, without aromatic amino	B10-B01B C10-B01B E10-B01B E10-B01E	Polycarbonates	A05-E06+ A05-E06A	polymer coatings	A12-B01C G02-A02D1
with carboxy deriv	E10-B01C+	compositions	A05-E06A	polythiol polymers	A05-J05
with Hydroxy, ether	E10-B01D	fibres, chemical features of	F01-D04	Polyepichlorohydrin	A05-H04
with Mercapto(ether)	E10-B01D	fibres, chemical features of,	F03-F07+	Polyepihalohydrins	A05-H04
Polyamine- polymaleimide polymers	A05-J11	dyeing of	A12-S05N	Polyepisulphides	A05-J05
Polyaminoamide (Versamid)	A05-F04	in polymer blends	F03-F07+	Polyepoxides	A05-A+ A05-A05
Polyaminoamides from polymerised vegetable oil acids and polyamines	A05-F04	printing of	A07-A+ A12-S05Q	Polyesteramides	A05-E07
Polyaminobismaleimide	A05-J11	production	F03-F07+	fibres, chemical features of	F01-D03 F01-D04
Polyammonium methacrylate	A04-D09	uses	A05-E06A A05-E06B	Polyesterether	A05-E09
Polyanhydride	A05-J03	Polycarboranes	A06-C	from poly (tetramethylene ether) glycol, dimethyl isophthalate and ethylene glycol	A05-E03 A05-E09 A05-H05
Polyarylate	A05-E10	Polycarboxy methylene	A04-A03 A04-F04+	Polyesterification	A10-D05
Polyarylene ethers	A05-H07A	Polycarboxylic acid	B10-C02 C10-C02 E10-C02	Polyesterification modification	A10-E07+
Polyarylene sulphides	A05-J05A	Polycarboxylic condensants (cyclo)aliphatic aromatic	A01-E12 A01-E11	Polyesterimides	A05-E07 A05-J01+
Polybasic (acid) condensant (cyclo)aliphatic aromatic	A01-E12 A01-E11	Polychloroalkane	E10-H02H E10-H03C4 E10-H04C4	Polyesterpolyol and isocyanate based polyurethanes	A05-G02
Polybenzimidazo- pyrrolones	A05-J02	Polychloroalkene	E10-H02G E10-H03C3 E10-H04C3	Polyesters - see also Polyester saturated, and Polyesters, unsaturated adhesives/binders	A12-A05E G03-B02E3
Polybenzimidazoles	A05-J02	Polychloroalkyne	E10-H02G E10-H03C3 E10-H04C3	coatings/paints	A12-B01H G02-A02E+
Polybenzobisthiazole	A05-J02	Polychloroprene	A04-B08	fibres, chemical features in production	F01-D04
Polybenzothiazole	A05-J02	Polychlorotrifluoro-ethylene	A04-E10D	fibres, dyeing	A12-S05N F03-F07+ A12-S05Q
Polybenzothiazolene	A05-J02	Polyclonal Antibodies	D05-H11B	fibres, printing	F03-F07+
Polybenzoxazoles	A05-J02	Polycondensation apparatus and equipment	A10-D+ A10-D04 A10-D06	non-linear (alkyd resin) polyol based polyurethane	A05-E08 A05-G02
Polybenzyl acrylate	A04-F06+	electrolytic/oxidative esterification	A10-D05	Polyesters, saturated based on aliphatic acid	A05-E+ A05-E02
Polybisbenzimidazo- benzophenanthroline	A05-J02	interfacial	A10-D01	based on aromatic acid (excluding iso and terephthalic acids)	A05-E05
Polyblends	A07-A+	ordered	A10-D02	based on Hydroxyacids	A05-E02B
Polybrene	A05-J09	ring-closure, ring-opening	A10-D03	based on isophthalic acid	A05-E03
Polybromobutyl acrylate	A04-E	Polycrystalline layers in semiconductor processing	see also L4-C10B	based on lactones or glycolides	A05-E02C
Polybutadiene	A04-B02+	see also L4-C10B	L03-C04	based on saturated (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols	A05-E02A A05-E04+
Polybutadiene diol and isocyanate based polyurethane	A05-G	Polycyanide (organic)	B10-A15 C10-A15 E10-A15A	based on terephthalic acid, application	A05-E04E
Polybutadiene in polymeric blends	A07-A+	Polycyanurates from dicyanates	A05-J02	based on terephthalic acid, compounding	A05-E04B
Polybutadiene, production	A04-B02A	Polycyclic quinone dye	E22-E	based on terephthalic acid, fabrication	A05-E04C
Polybutene-1	A04-G04	Polycyclohexyl methacrylate	A04-F06+	based on terephthalic acid, production	A05-E04A
Polybutene-2	A04-G	Polydiallyldimethyl ammonium chloride	A04-B	based on terephthalic acid, treatment	A05-E04D
Polybutenyl succinimide	A10-E03	Polydiene polyol	A05-G		
Polybutylene terephthalate (PBT)	A05-E04+ F03-F07+	polyurethanes	A05-G		
dyeing of	F03-F07+	Polydiolefins in polymeric blends	A07-A+		
fibres, chemical features of	F01-D04	Polydodecamethylene dodecane-dioic amide	A05-F02		
Polycaprolactam	A05-F03	Polydodecanolactam	A05-F03		
Polycaprolactone polyol polyurethane	A05-G02	Polyelectrolytes	A12-M+ A12-M01 A12-M02		
Polycapryllactam	A05-F03	acrylic	A12-M01		
		others	A12-M02		

composition	A05-E01A2	chemical features of fibres	F01-D04A	Polyimides	A05-J01+
production	A05-E01A1	dyeing of fibres	A12-S05N F03-F07+	Polyimines	A05-J11
textiles, textile treatment	A05-E01B+			Polyindene	A04-C
textiles, textile treatment, chemical treatment	A05-E01B2	Polyethylene terephthalate isophthalate	A05-E03 A05-E04+	Polyisobutene	A04-G05
textiles, textile treatment, mechanical treatment	A05-E01B1			Polyisobutenyl succinimide	A10-E03
textiles, textile treatment, uses	A05-E01B3	Polyfluoroacrylates	A04-E10D	Polyisobutylene	A04-G05+
Polyesters, unsaturated application	A05-D02+ A05-D02E+	Polyformaldehyde	A05-H02+	Polyisocyanates condensants crosslinkers	A01-E02 A08-C09A A08-D04A
application, building components, laminates	A05-D02E1	Polyfunctional stabilisers	A08-A01+		
compounding	A05-D02B	Polygermanates (polymerisation product)	A06-D	Polyisocyanurates	A05-J02
fabrication	A05-D02C	Polyglutamic acid	A05-F03	Polyisomaltose	B04-C02 C04-C02
production	A05-D02A	Polyglycerol	A05-H		
treatment	A05-D02D	Polyglycerol polyether	A05-H	Polyisoprene (co)polymers, butyl rubber copolymers	A04-G05A A04-B07 A04-B06
Polyesterurethanes foams	A05-G02 A12-S02+	Polyglycidyl compounds - see also Epoxy resins	A05-A+	homopolymer	
Polyetheresters	A05-E09	Polyglycidyl isocyanurate	A05-A04	Polyitaconic acid	A04-F05
fibres, chemical features of	F01-D04 F01-D10	Polyhexafluoro- propylene	A04-E10D		
		Polyhexamethylene adipamide	A05-F02	Polyketones including polyether-ketones	A05-J10
Polyetherketones	A05-J10	caprolactam		Polylauryllactam	A05-F03
Polyetherpolyol and isocyanate based polyurethane	A05-G03	cocondensate (nylon 6:6/6)	A05-F02 A05-F03	Polymaleic acid/anhydride (co)polymer	A04-F05
Polyethers	A05-H+ B04-C03C C04-C03C	hexamethylene azelaiamide cocondensate (nylon 6:6/6:9)	A05-F02	Polymaleimide- polyamine polymers	A05-J11
based on dihydric phenol	A05-H06	hexamethylene azelamide- caprolactam cocondensate (nylon 6:6/6:9/6)	A05-F02 A05-F03	Polymer coatings on metal general	A12-B04+
based on ethylene oxide	A05-H03+			preparation of compositions; resinous metal treatment	A12-B04B A12-B04D
based on ethylene oxide, composition	A05-H03A	hexamethylene isophthalamide cocondensate (nylon 6:6/6iP)	A05-F A05-F02	using acrylic resins	A12-B04C
based on ethylene oxide, production	A05-H03A			using natural, inorganic or condensation resin	A12-B04C
based on furan	A05-H05			using other addition polymer(s)	A12-B04F
foam	A12-S02D	hexamethylene sebacamide- caprolactam cocondensate (nylon 6:6/6:10/6)	A05-F02 A05-F03	using vinyl ester or halogen addition polymer	A12-B04E
in polymeric blends	A07-A+			Polymer coatings on polymer (use)	
polyether polyol based				general	A12-B07+
polyurethane	A05-G03			on films (optionally laminated)	A12-B07A A12-S06C+
propylene oxide based (including epihalohydrins)	A05-H04	hexamethylene terephthalamide cocondensate (nylon 6:6/6T)	A05-F A05-F02	on foams	A12-B07B
Polyethersulphones	A05-J06			on tubes, cables or other profiles	A12-B07C
Polyetherurethanes foams	A05-G03 A12-S02D	Polyhexamethylene azelaiamide	A05-F02	Polymer use	
		Polyhexamethylene dodecanedioic amide	A05-F02	Adsorption	A12-W11D
Polyethylene - see also Ethylene, polymer	B04-C03B C04-C03B	Polyhexamethylene isophthalamide	A05-F	Polymerase agonists	B14-L01A2 C14-L01A2 B14-D06A C14-D06A
fibres, chemical features of	F01-D05	Polyhexamethylene sebacamide	A05-F02	inhibitors	
fibres, dyeing/printing	F03-F08	Polyhexamethylene terephthalamide	A05-F	Polymeric adhesion promoter for polymers	A08-M03 A08-M01B
homopolymer	A04-G02+	Polyhexene-1	A04-G	animal repellent compounds	A08-M02
Polyethylene glycol	A05-H03	Polyhexyl acrylate	A04-F06+	antiseptic compounds	A08-M02
Production	A05-H03A1	Polyhydantoin	A05-J02	conductors, electrical	L03-A02D
Composition	A05-H03A3	Polyhydrazides	A05-J09	cross-linking/curing agents	A08-C08 A08-D+
Polyethylene imine	A05-J07	Polyhydric alcohol acrylic esters	A04-F06+	dye or precursor	E24-B
Polyethylene naphthalate	A05-E05A	Polyhydric alcohol condensants	A01-E14	dyeing aids	A08-M01A
Polyethylene oxide	A05-H03+	Polyhydric phenol condensants	A01-E13	fibrous filler for polymers	A08-R08A
Homopolymer Production	A05-H03A1	Polyhydric phenols-aldehyde resins	A05-C02	fillers	A08-R08+
Homopolymer Composition	A05- H03A3				
Copolymer Production	A05-H03A2				
Copolymer Composition	A05-H03A4				
Polyethylene terephthalate - see also Polyester, saturated, based on terephthalic acid	A05-E04+				

fungicidal compounds	A08-M02	Ziegler (halide containing)	A02-A06B	Polymethacrylonitrile	A04-D02+
halogen containing flame retardants	A08-F04A	Polymerised drying oils	A03-C	Polymethyl isopropenyl ketone (co)polymer	A04-F03
impregnants and coatings for concrete	L02-D14M	vegetable oil acids and polyamine based polyamides	A05-F04	Polymethyl methacrylate (PMMA)	A04-F06+
impregnants and coatings for concrete	A12-R01A	Polymerising condensant during coating	A11-B05C	Polymethyl vinyl ketone	A04-F03
paper, synthetic	A12-W06+	monomer during coating	A11-B05C	Polymethylene polyphenylene polyisocyanate condensant	A01-E02
particulate filler for polymers	A08-R08B	Polymers removal from water	A11-C07 D04-B06D	Polymyxin	B02-P01 C02-P01
reinforcing agents	A08-R08+	Polymers general (excluding polypeptide and polysaccharide)	A01 B04-C03 C04-C03	Polynaphthenate polymers	A05-E05A
supports for magnetic recording	A12-E08A+ L03-B05L1	addition in paper manufacture	A12-W06+ F05-A06C	Polynonanolactam	A05-F03
Polymerisation	B11-C01 C11-C01 A02+	additives for concrete	A12-R01A L02-D14F	Polynorbornene (rubber)	A04-G
controllers	A02-A+	additives for polymers	A08+ A09-B A07-A+	Polynosic fibres	
controllers, catalysts	A02-B	analysis of blends/mixtures		chemical features	F01-D06
controllers, chain transfer agents	A02-C	bonded to antigen or antibody	B11-C07A6 C11-C07A6	dyeing/printing	F03-F09
controllers, inhibitors	A02-B	bonded to enzyme	A12-W11L D05-A01A2	Polynuclear mono- or polyhydric phenols condensants	A01-E13
controllers, modifiers	A02-B	bonded to non-woven fabrics	A12-B02B	Polyoctene-1 (co)polymers	A04-G
controllers, regulators	A10-B01	carriers for microorganism carriers for microorganisms	D05-A03A	Polyol condensants	A01-E14
equipment	A10-D04	W11L	A12-W11L	Polyolefins	A04-G+ B04-C03B C04-C03B
equipment, cleaning	A10-G	detergent additive	D11-B19	adhesive/binder (based on)	A12-A05B2
equipment, scale prevention/ reduction	A10-G02	detergent additive, for fibres	A12-W12A	A05B2	
natural polymer production	A10-A	detergent additive, for others	A12-W12B	fibres dyeing/printing	G03-B02D3 A12-S05P F03-F08
process, addition	A10-B+	filled with non-metallic conductors	L03-A02E	fibres, chemical features in production	F01-D05
process, condensation	A10-D+	film laminates	A12-S06C	foaming processes	A12-S04A1
process, gasoline preparation	H04-D01	in paper	A12-W06+ F05-A06C	foams (compositions)	A12-S04A2
process, ordered	A10-C+	natural	A03+ B04-C03D C04-C03D	in polymeric blends	A07-A+ A08-A01A1
Polymerisation catalysts	A02-A+	of metal containing compound (including Boron, Phosphorus, Silicon) as crosslinkers	A08-C08 A08-D05	stabilisers for	
Alfin	A02-A05	pigment/filler treatment with removal from water	G01-B03 A11-C07 D04-B06 A12-S07A A09-C	Polyoxadiazoles	A05-J02
alkali(ne earth) metal containing organic compound	A02-A07B	sheet laminates	A12-S07A	Polyoxazoli(di)nes	A05-J02
azo	A02-A02	testing of	A09-C	Polyoxazolidones	A05-J02
biocatalyst	A02-A12	Polymers, proteinaceous	A03-C01	from diglycidyl ether of bisphenol A and polyisocyanate	A05-A02 A05-J02
enzyme	A02-A12	Polymetaxylylene adipamide	A05-F02	Polyoxyethylene copolymers	A05-H03+ Production Composition
free radical	A02-A03	Polymethacrolein	A04-F02	Production	A05-H03A2
Friedel-Craft	A02-A04	Polymethacryloyl chloride	A04-E	Composition	A05-H03A4
inhibitors	A02-C	Polymethacrylamide - see also Acrylamide, polymer	A04-D04+	Polyoxyethylene homopolymers	
metallic (non-transition metal)	A02-A07+	Polymethacrylic acid	A04-F04+	Production	A05-H03+ A05-H03A1
organoaluminium compound (not with transition metal/compound)	A02-A07C	Polymethacrylic anhydride	A04-F04+	Composition	A05-H03A3
organoaluminium compound + transition metal/compound	A02-A06+ A02-A06C A02-A07A	Polymethacrylic ester	A04-F06+	Polyoxymethylene (co)polymers	A05-H02+
organometallic (non-transition metal)	A02-A07+			Production	A05-H04+ A05-H04A1 A05-H04A3
P containing (excluding with transition metal/compound)	A02-A11			Composition	A05-H04A4
peroxide	A02-A01			Polyoxypropylene copolymers	A05-H04+
persalt	A02-A01			Production	A05-H04A2
redox	A02-A03			Composition	A05-H04A4
support	A02-D			Polyoxypropylene homopolymers	
transition metal (compound)	A02-A06+			Production	A05-H04+ A05-H04A1 A05-H04A3
transition metal halide or oxyhalide	A02-A06B			Composition	A05-H04A3
transition metal oxide	A02-A06A			Polyparabanic acid	A05-J02
Ziegler (general)	A02-A06+			Polyparaxylylene	A05-J
				Polyparaxylylene dodecanedioic amide	A05-F02

Polypeptides	A03-C01 B04-C01 C04-C01	Polyquaternary ammonium compounds	B10-A21 C10-A21 E10-A21	Polythioethers	A05-J05+
modified/cyclic	B04-C01H C04-C01H	Polyquinazolone	A05-J02	Polythiol-polyene resins	A05-J05
animal	B04-N02 C04-N02	Polyquinoxaline	A05-J02	Polythiophenes	A05-J12
from microorganisms	B04-N03 C04-N03	Polysaccharides	A03-A+ B04-C02 C04-C02	Polythiourea	A05-J04
bacterial	B04-N03C B04-N03D C04-N03C C04-N03D	bisynthesis	D05-C08	Polythiourethanes	A05-G
fungal	B04-N03G B04-N03H C04-N03G C04-N03D	bound to enzyme	D05-A01A1	Polytitanates (polymerisation product)	A06-D
viral	B04-N03E B04-N03F C04-N03E C04-N03F	general	A03-A01+	Polytriazoles	A05-J02
plant	B04-N01 C04-N01	other non-cellulosics (not specified elsewhere)	A03-A+ A03-A01A	Polytrimethyl dihydroquinoline	A04-D08
polypeptide general	B04-N04 C04-N04	textiles	A06-A+	Polyundecanolactam	A05-F03
production by fermentation	A10-A D05-C11	Polysilazanes	A06-A+	Polyunsaturated compound, monomer	A01-B03 A01-C+
Polyperfluoroalkyl acrylate	A04-E10D	Polysilicon layers on semiconductor circuits	L04-C10B	Polyunsaturated compound, polymer	A04-A03 A04-B+
Polyperfluoroalkyl methacrylate	A04-E10D	Polysiloxanes (including polysilazanes)	A06-A+ A06-A00E+	Polyurea adhesives	A05-J04 A12-A05F G03-B02E4
Polyphenol - see Phenol		applications, adhesives, coatings, textile treatment	A06-A00E1	Polyurethane polyurea	A05-G+ A05-J04
Polyphenyl acrylate	A04-F06+	applications, in engineering	A06-A00E2	Polyurethanes applications	A05-G+ A05-G01E+ A12-A05F G03-B02E4
Polyphenylene oxide-styrene polymer blends ("Alloys")	A04-C+ A05-H07A A07-A04E	applications, medical, dental, cosmetic, veterinary	A06-A00E3	applications, artificial leather	A12-B02A F04-B01A A05-G01E1
Polyphenylene oxides/ethers	A05-H07A	applications, photographic, printing, optical	A06-A00E4	applications, coatings	A12-B01K G02-A02H A05-G01B
Polyphenylene sulphide	A05-J05A	compounding	A06-A00B	elastomers	A05-G+ A12-S02+
Polyphosphate, inorganic - see Phosphorus compounds, inorganic		expanded, foams	A12-S01+	expanded, foamed	A12-S02+
Polyphosphazene	A06-B	fabrication	A04-C02C	fabrication	A05-G01C
Polyphthalocyanine	A05-J02	foam, composition or process	A12-S01A	fibres, chemical features in	F01-D07
Polypropylene	A04-G03+ B04-C03B C04-C03B A04-G03E	production	A04-C02A	fibres, dyeing and printing	F03-F10
application	A04-G03E	treatment	A04-C02D	foams	A12-S02+
application, for packaging, medical, home, photographic, film	A04-G03E1	Polysulphides, organic	B10-A04 C10-A04 E10-A04	in polymeric blends	A07-A+
compounding	A04-G03B	polymer	A05-J05+	monomeric polyol based	A05-G04
fabrication	A04-G03C	Polysulphone	A05-J06	polyester polyol based	A05-G02
fibres, chemical features of	F01-D05	Polysulphonamides	A05-F	polyether polyol based	A05-G03
fibres, dyeing/printing	F03-F08	Polyterpenes	A03-C	production	A05-G01A
production	A04-G03A	Polytetrafluoro-ethylene	A04-E08+	treatment	A05-G01D
treatment	A04-G03D	application to engineering	A04-E08B	Polyvinyl acetal	A10-E02
Polypropylene oxides/glycols	A05-H04+	compositions, production	A04-E08A	Polyvinyl acetate	A04-F08
Polypyromellitimides from pyromellitic condensant and diamines	A05-J01+	Polytetrahydrofuran	A05-H05	Polyvinyl alcohol	A10-E09+
Polypyrroles		Polytetrahydrofuran based polyurethane	A05-G03	fibres, chemical features	F01-D08
polypyrroles	A05-J12	Polythene see also Polyethylene	A04-G02+	fibres, dyeing/printing	F03-F11
Polypyrrolidone	A05-F03	Polythiocarbonates	A05-E06+	production by hydrolysis	A10-E09
		Polythiodiethanol	A05-H	Polyvinyl bromide	A04-E04
				Polyvinyl butyral	A10-E02
				Polyvinyl butyrate	A04-F10
				Polyvinyl carbazoles	A04-D06
				Polyvinyl chloride applications	A04-E02+ A04-E02E+
				applications, adhesives	A12-A05B3 G03-B02D2
				applications, artificial leather	A12-B02A F04-B01B
				applications, coatings	A12-B01F G02-A02D2
				applications, in engineering, building	A04-E02E1

compounding	A04-E02B	Potassium compounds	B05-A01A	Powders	E12-A07
fabrication	A04-E02C	inorganic	C05-A01A	coating onto substrates	A11-B05E
fibres, chemical features	F01-D08	organic	E33-S	dusting	B12-M02E
fibres, dyeing/printing	F03-F11		E05-A		C12-M02E
production	A04-E02A		E05-A02	formation of polymer	E12-A07
treatment	A04-E02D	Potassium fluoride	E33-B	metal production by	A11-A04
Polyvinyl cinnamate	A10-E07B	Potassium halide	B05-A01A	electrolysis	M28-D
	A10-E09+		C05-A01A	metal production by	
Polyvinyl cyclohexane	A04-G		E33-B	other methods	M22-H01
Polyvinyl fluoride	A04-E10A	Potassium hydroxide	E33-A	of polymers	A12-S09
Polyvinyl formal	A10-E02	electrolytic production	E33-A01	oral application	B12-M11G
Polyvinyl iodide	A04-E04	production	E33-A02		C12-M11G
Polyvinyl isobutyl ether	A04-F11	use	E33-A03	polymeric coating process	A11-B05E
Polyvinyl ketal	A10-E02	Potassium iodide	E33-B	Powdery mildew	C14-A06N
Polyvinyl pyridines	A04-D07	Potassium nitrate	E33-E	Pozzuolanic cements	L02-C03
Polyvinyl stearate	A04-F10	Potassium oxide	E33-A	PP	A04-G03+
Polyvinylamine	A10-E09		E33-A04	PPAR agonist	B14-L01C
Polyvinylene carbonate	A04-F	Potassium persulphate	E31-E03		C14-L01C
Polyvinylidene bromide	A04-E06	catalyst for polymerisation	A02-A01	PPAR antagonist	B14-L06C
Polyvinylidene chloride	A04-E06	crosslinker	A08-C05		C14-L06C
Polyvinylidene fluoride	A04-E10B	redox catalyst for	A08-D	Praseodymium compounds	B05-A03B
Polyvinylidene iodide	A04-E06	polymerisation	A02-A03	catalysts	C05-A03B
Polyvinylpyrrolidone	A04-D05A	Potassium sulphates	E33-C	inorganic	N03-A02B
	B04-C03A	Potassium sulphites	B05-A01A	organic	E34-E02B
	C04-C03A		C05-A01A	Pre-spinning yarn process	E05-P
iodine complex	A10-E04A	Potassium titanate filler/ reinforcing agent	E33-C	Prebiotics (health food)	F01-F
Polyxylylene	A05-J		A08-R09	Probiotics (health food)	D03-H01T2A
Pools, swimming	A12-F01A	Potentiometry testing	B11-C08B	Precious metal	
Popcorn making	D03-J11		C11-C08B	conductor tracks for	
Porcelain	L02-G03A	Potted components		semiconductor devices	L04-C10E
Pore formers for polymers	A08-B+	(electrical, polymer use)	A12-E04	Precious metal catalysts	N02
Pore forming of polymers	A11-B06+	Potting compound (electrical)	A12-E04	Precipitating with shear to give fibres and fibrils	F01-C07
Pork	D02-A03B	Poultices	B12-M02C	Precipitation	
Porous			C12-M02C	of polymers, purification by	A10-G
forms	A12-S+	Poultry (whole), processing	D09-C04A	tests	B11-C07
	E12-A10	Poultry products	D02-A01		C11-C07
metal by electrolysis	M28-D	Pour depressant (lubricant additive)	D02-A03	water treatment	D04-A01B
Porphin dye (general)	E23	polymeric	H07-G05	Prednisolone	B01-B02
Porphyrin	B06-D18	Pour point depressants (fuels)	A12-W02A		C01-B02
	C06-D18		H06-D05	Prednisone	B01-B01
	E06-D18	Powder metallurgy			C01-B01
Portland		compacting	M22-H	Prefabricated concrete	L02-D04
cement	L02-C02	compacting and sintering	M22-H03A	compositions	L02-D04A
cement, polymer use in	A12-R01A	composite materials	M22-H03C	methods	L02-D04B
clinker in cement	L02-C03	fibre reinforced material	M22-H03F	products	L02-D04D
Positron emission tomography	B12-	impregnation or post	M22-H03D	Preformed glass rod and sheath for optical fibre	
K04C3		treatment	M22-H03E	manufacture	L01-F03F4
	C12-K04C3	powder metal treatment	M22-H02	Preforming, pelleting of	
Post halogenated polymer	A10-E04A	pressing	M22-H03A	polymers	A11-A04
Post-forming glass	L01-G	sintering	M22-H03B	Preforms for optical glass fibre	L01-F03F
fibres	L01-F03E	specific products	M22-H03G	1,4-Pregnadiene (excluding prednisone and prednisolone)	
Post-treatment of castings	M22-G03H	Powder coatings	G02-A07A		B01-B03
Posters, advertising	A12-W03	Powder paints, of polymer	A12-B+		C01-B03
Posthalogenation	A10-E04A		A12-S09+	Pregnadiene (two ring "A" double bonds other than 1,4)	
Potassium bicarbonate	E33-D	Powder treatment, of polymers	G02-A07A		B01-B04
Potassium bromide	E33-B	powdered filler, reinforcing			C01-B04
Potassium carbonate	E33-D	agents for polymers	A11-A04		
Potassium catalysts	N01-A01	Powdering detergents	A08-R+		
Potassium chloride	E33-B		D11-D03		



Pregnancy testing	B12-K04A6 B12-K04G2E C12-K04A6 C12-K04G2E	Pressure sensitive adhesive polymer copying material	A12-A+ A12-D05A G05-D A12-D05A	lithographic	A12-W07B G05-A01
Pregnane (saturated ring "A")	B01-D01 C01-D01	office materials	A12-D05A	others, produced photographically	A12-W07C A08-E01
Prehardening during colour processing	G06-G14	Pressure Swing Adsorption	H02-B05	paste for polymers	G02-A04B
Preheating furnace charge	J09-B03	Pressure vessel discharge of gas from filling with gas	J06-B04 J06-B03	pigment for printing ink planographic plastics	G05-A01 A11-C04A
Preheating hot blast	M24-A05E1	for nuclear reactors	K05-B01	plates	A12-W07+ G05-A+
Preheating polymers	A11-A02+	gas/liquid storage	J06-B01	polymeric, non-photographic	A12-W07A
Premenstrual tension treatment	B12-C05 B14-N14 C12-C05 C14-N14	Prestressed concrete	L02-D05	polymeric, photographic composition for making plates	A12-L02B1
Preparation of catalysts, general	N06-E	Pretreatment before digesting (in paper-making)	F05-A02A	production of plates by electrophotographic methods	A12-L02B1 G06-D05A A06-A00E4
Prepolymers of polyurethanes	A05-G+	Pretreatment of surfaces for application of adhesive	G03-B03	silicone resins used in stencil for substrates thermal (heads)	G05-A04 A12-W7F2 G05-F02 L03-G10B
Preservation of body parts (chemical)	D09-A01 D09-A03	Prevention of scales on polymerisation vessels	A10-G02	transfer sheets	A12-W07F1 G05-F01
edible seeds	D03-A05	Prills	B12-M11D C12-M11D	Printing plastics	
eggs and egg products	D03-A02	Primers (explosive)	K04-B01	Painting plastics	A11-C04A
fish and fish products	D03-A02	Primers for coatings	G02-A05E	Printout materials for photo-sensitive system	G06-C06
foods (general)	D03-H02	Primers for polymers	A08-M01+	Prions	B04-N10 C04-N10
meat and sausages	D03-A01	Printability improver for polymers	A08-M01A	Prion disease treatment	B14-N16 C14-N16
organs, animal tissue	D09-A03A	Printability of polymers	A09-A06	Prion detection, testing and identification	D05-H06B
plant tissue	D09-A03B	Printed circuit boards encapsulation by plastics or glass	A12-E04 A12-E07A L03-H04E8 L03-H04E9	Probes (DNA) used in tests (process)	B11-C08E5 C11-C08E5
vegetables and fruit wood	D03-A04 F05-B01	other treatment	A12-E07A L03-H04E8 L03-H04E9	Probes (electrical-polymer use)	A12-E13
Preservatives agricultural/pharmaceutical	B12-M06 C12-M06	Printed circuits	A12-E07A L03-H04E L03-H04E3	Process, general	B11 C11 E11 N06
biological, for fibres/fabrics for polymer	F03-C02B A08-M02	electroplating of manufacture, photographically manufacture, reprographically metallising microwelding	G06-D06 L03-H04E2 L03-H04E3 L03-H04E7	catalytic	
Preserved food product	D03-A	patterning processes soldering, brazing substrate	L03-H04E2 L03-H04E1	Processing agent or step (photographic)	G06-G+
Preserving apparatus	B11-C06 C11-C06 D03-H02	substrate, ceramic substrate, plastics	L03-H04E5 L03-H04E1	Processing aid for fabrics polymers	F03-C05 A08-M03+
food (general)	D03-H02	Printing	A12-W07+ F03-F14 F03-F01 F03-F32 F03-F32	Processing of polymers forming processes miscellaneous processes preliminary processes	A11-B+ A11-C+ A11-A+
Press polishing of polymers	A11-C04	after treatment apparatus for auxiliaries auxiliaries for fibres by photographic methods	A12-L02B1 G06-D05 G05-A02	Prodegradant for polymers	A08-M08
Press section of papermaking machine	F05-A04C	deep relief dyes for printing ink	A12-W07E G02-A04B	Prodrugs	B14-S28 C14-S28
Presses (forging, hammer and extrusion)	M21-J02	equipment (excluding plates) made of polymers fabrics gravure ink	A12-W07F A12-S05Q G05-A03 A12-W07D G02-A04A A08-E+ G05-F03	Proenzyme	B04-L01 C04-L01
Pressing of ceramic powder, cold ceramic powder, hot while sintering glass metal, powder metal, sheet, wire, rod, tube profile metal, sheet, wire, rod, tube profile, control devices metal, sheet, wire, rod, tube profile, equipment metal, sheet, wire, rod, tube profile, processes polymers	L02-A03 L02-A04 L01-E04 M22-H03A M21-J M21-J03 M21-J02 M21-J01 A11-B13	ink for polymer surfaces ink jet ink jet inks intaglio	G05-A03 A12-W07D1 G05-A03	Progestagen inhibitor	B12-G01A B14-D02A C12-G01A C14-D02A
Pressure casting filters swing adsorption	M22-G03E J01-F02A J01-E03D			Progestational	B12-G04D B14-D01C C12-G04D C14-D01C

Progesterone (excluding 17-hydroxy)	B01-C04 C01-C04	Propylene oxide - TDI polyurethanes	A05-G03	Protective layers in magnetic recording photography	L03-B05K1 G06-A08
Programs for sewing machines	F02-F01B1	Propylene oxide-ethylene oxide copolymer based polyurethane	A05-G03	Protein	B04-B04A B04-N04 C04-B04A C04-N04 D03-F
Prohormone	B04-J99 C04-J99	Propylene urea condensant	A01-E03	analysis	B11-C08F C11-C08F J04-B03
Projectiles lethal	K03-A02 K03-A02A	Propylene urea-formaldehyde resin	A05-B04	animal	B04-N02 C04-N02
Projectiles non-lethal	K03-A02B	Propylene- vinylchloride copolymer	A04-E03+ A04-G09	biosynthesis	D05-C12 D05-C13 D03-F06
Prolactin	B04-J05 C04-J05	Propylene-ethylene copolymer	A04-G06+	composition from animal or fish waste	B04-B04A5 C04-B04A5 D03-F04
Promethium compounds	B05-A04 C05-A04 N03-A02B E34-E02B E05-R	Propylene-ethylene- diene copolymer	A04-G06+	from microorganisms	B04-N03 C04-N03 D03-F03
catalysts inorganic	E34-E02B	Prostacyclin	B04-H03D C04-H03D	from petroleum source - see also Biosynthesis	H08-E03 D03-F02
organic	E05-R	Prostaglandins	B04-B02E B04-H03 C04-B02E C04-H03	from soya beans hydrolysate	B10-B02C C10-B02C E10-B02C
Promoters for addition (co)polymers	A08-C02	agonist/mimetic	B14-L04 C14-L04	libraries	B11-C10C C11-C10C
blowing agents	A08-B	antagonist/inhibitor	B14-L08 C14-L08	plant	B04-N01 C04-N01
crosslinking agents for other (co)polymers	A08-D+	prostaglandin E1	B04-H03A C04-H03A	recovery	B04-B04A6 B04-N04 C04-B04A6 C04-N04
hair growth	D08-B03A	prostaglandin E2	B04-H03B C04-H03B	removal from waste water	D03-F01 D04-B04
Proofing, colour	G05-C	prostaglandin F2 alpha	B04-H03C C04-H03C	sequencing method	B11-C08F7B C11-C08F7B
1,3-Propane dicarboxylic condensant	A01-E12	prostaglandin I2	B04-H03D C04-H03D	shaping (thread or film)	D03-F05
Propane diol condensant	A01-E14	Prostate disease treatment	B12-G03 B12-G04 B14-N07A C12-G03 C12-G04 C14-N07A	zinc finger protein	B04-N11 C04-N11 D05-H17A7 D05-H17B7
Propane-1,2,3-triol condensant	A01-E14	Prostheses	A12-V02+ D09-C01 F04-E04 B12-M16 C12-M16	Proteinaceous artificial fibres, chemical features polymers	F01-D10 A03-C01
Propargyl alcohol (co)polymers	A04-A02 A01-B02	Protactinium compounds	B05-A04 C05-A04	Proteomics	B11-C08F+ C11-C08F+
Propellants (for projectiles)	A12-T03C K04-C	inorganic	E35-Y	Prothrombin	B04-B04D3 B04-H19 C04-B04D3 C04-H19
Propene (see also Propylene) monomer	E10-J02C A01-D13	organic	E05-Q	Proton pump inhibitors	B14-L12 C14-L12
Properties of polymers	A09-A+	Proteases	B04-L05C C04-L05C	Protozoa	B04-F06 C04-F06
absorption/adsorption	A09-A08	agonists	B14-L01A3 C14-L01A3	Protsta prostaglandin	C04-K01H
biodegradeable	A09-A07	inhibitors	B14-D07C C14-D07C	PS	A04-C02
dyeability	A09-A06	Protective chemicals (agriculture)	A12-W04C	Pseudomonas	B04-F10A6 C04-F10A6
electrical	A09-A03	Protective clothing	A12-C02 D09-C04D F04-C06 K07-A	Psoriasis treatment	B12-A07 B14-N17C C12-A07 C14-N17C
electroluminescent	A09-A03A	against radiation	K07-A		
flammability	A09-A01	Protective coatings	G06-A08		
heat stability	A09-A01A	photographic polymer use	A12-B+		
impact strength	A09-A05A	Protective colloid (additive to polymer system)	A08-S06		
liquid crystal	A09-A02A				
magnetic	A09-A04				
mechanical	A09-A05+				
nematic	A09-A02A				
optical	A09-A02+				
other	A09-A				
thermal	A09-A01A				
Propolis	B04-A09H C04-A09H				
Propylene (co)polymers with ethylene	A04-G06				
(copoly)polymers with other monomers	A04-G09				
homopolymer	A04-G03				
monomer	A01-D13				
Propylene glycol condensant	A01-E13				
Propylene oxide (co)polymers	E07-A03A A05-H04				
condensant	A01-E07				

Psychosthenic	C12-C05	Putty	A12-R08	Pyrazolo-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Psychotropic	B12-C05 B14-J01 C12-C05 C14-J01	PVA fibres, chemical features fibres, dyeing/printing	G04-B02 A10-E09+ F01-D08 F03-F11	Pyrazolo-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pteridine	B06-D09 C06-D09 E06-D09	PVAC	A04-F08	Pyrazolone photographic coupler	G06-H08B
Pteridophytes	B04-A08B C04-A08B	PVC fibres, chemical features fibres, dyeing/printing	A04-E02+ F01-D08 F03-F11	Pyrazolotriazole based photographic couplers	G06-H08D
PTFE	A04-E08+	PVC/ABS blend ("Alloy")	A04-C03 A04-E02B A07-A02A1	Pyrethrin	B04-A07C C04-A07C
PU	A05-G+	PVDC	A04-E06	Pyridazine	B07-D10 C07-D10 E07-D10
Pullulan	A03-A+ B04-C02F C04-C02F D06-H	PVDF	A04-E10B	Pyridine (excluding piperidine)	B07-D04 C07-D04 E07-D04
Pulmonary	B12-K06 B14-K01 C12-K06 C14-K01	PVF	A04-E10A	Pyridines, vinyl (co)polymers monomer	A04-D07 A01-D01
Pulp after-treatment in papermaking	F05-A02B	PVP	A04-D05A	Pyridinium	B07-D04A C07-D04A E07-D04A
Pulp liquor regeneration, in papermaking	F05-A02C	Pyran (excluding tetrahydropyran)	B07-A03 C07-A03 E07-A03C	Pyrido-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pulping fruit	D03-J06	Pyrazine (excluding piperazine)	B07-D10 C07-D10 E07-D10	Pyrido-pyrimidine (two N-atoms)	B06-D06 C06-D06 E06-D06
Pulping, in papermaking	F05-A02A	Pyrazino(1,2-b)-pyridazine	B06-D08 C06-D08 E06-D08	Pyridoxine	B03-D C03-D
Pulsed release	B12-M10D C12-M10D	Pyrazino(2,3-d)-pyrimidine	B06-D09 C06-D09 E06-D09	Pyrimidine	B07-D12 C07-D12 E07-D12
Pultrusion process for FRP production (excluding A11-B09A+)	A11-B09C	Pyrazino-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09	Pyrimido-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Pulverisation of polymers	A11-A04	Pyrazino-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08	Pyrimido-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pulverising process	J02-B	Pyrazole	B07-D08 C07-D08 E07-D08	Pyroelectric materials	L03-G09C
Pumps for production of oil	H01-D03	Pyrazolo(1,2-a)-pyridazine	B06-D05 C06-D05 E06-D05	Pyroligneous acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Pumps, polymer use in	A12-H	Pyrazolo(2,3-a)-pyridazine	B06-D08 C06-D08 E06-D08	Pyrolysed polymer	A10-E05+
Punch cards for knitting systems	F02-B01	Pyrazolo(2,3-b)-pyridazine	B06-D08 C06-D08 E06-D08	Pyrolysis (of) polymer waste	A10-E05+ A10-E05A A11-C07 D04-B10B
Punching fabric (non woven) polymers sheet metal	F02-A02 F02-C02D A11-A05A M21-E02	Pyrazolo-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09	Pyromellitic acid condensant	A01-E11
Purgative	B12-J07 B14-E09 C12-J07 C14-E09	Pyrazolo-pyridine (three N-atoms)	B06-D09 C06-D09 E06-D09	Pyrophoric composition	K04-B02
Purging of polymer systems	A10-G+ A11-A+	Pyrazolo-pyridine (three N-atoms)	B06-D08 C06-D08 E06-D08	Pyroxylin	A03-A03 B04-C02A C04-C02A
Purification (process)	B11-B C11-B E11-Q01 E11-Q01A E11-Q01B N07-L01 N07-L02 G02-B03 H09-D G02-B01 A10-G01+ D04-A01E	Purine	B06-D09 C06-D09 E06-D09		
by chemical means					
by physical means					
catalytic					
of drying oil					
of gas					
of natural resin					
of polymer					
of water by electrodialysis					
Purses, polymer use	A12-T				

Pyrrole (excluding pyrrolidine) B07-D02  
 C07-D02  
 E07-D02  
 Pyrrole polymer A05-J12  
 Pyrrolidine B07-D03  
 C07-D03  
 E07-D03  
 Pyrrolidones, vinyl  
 (co)polymers  
 monomer A04-D05A  
 A01-D01  
 Pyrrolizine B06-D04  
 C06-D04  
 E06-D04  
 Pyrrolo-pyrimidine (three  
 N-atoms) B06-D08  
 C06-D08  
 E06-D08  
 Pyrrolo-pyrimidine (two  
 N-atoms) B06-D05  
 C06-D05  
 E06-D05  
 Pyrylium spectral sensitiser,  
 photographic G06-H07D

**Q**

Quartz filler E31-P  
 G01-A06  
 A08-R06A  
 for polymers  
 Quaternary ammonium  
 catalysts N05-D  
 compounds  
 Quaternary ammonium  
 compounds  
 disinfectants D09-A01B  
 heterocyclic detergents D11-A02A  
 monoquaternary B10-A22  
 C10-A22  
 E10-A22  
 non-heterocyclic detergents D11-  
 A02B  
 polyquaternary B10-A21  
 C10-A21  
 E10-A21  
 Quenching  
 baths for ferrous metals M24-D04E  
 following extrusion of  
 polymers A11-B07D  
 petroleum refining H05-M  
 spun fibres F01-C  
 Quilting textiles F03-H  
 Quinazoline B06-D06  
 C06-D06  
 E06-D06  
 Quinidine B04-A02  
 C04-A02  
 Quinine B04-A02  
 C04-A02  
 Quinol condensant A01-E13  
 Quinoline B06-D02  
 C06-D02  
 E06-D02  
 Quinolizine B06-D04  
 C06-D04  
 E06-D04  
 Quinomycin B02-Q  
 C02-Q  
 Quinone B10-A06  
 C10-A06  
 E10-A06  
 E10-A06A  
 B10-A06  
 C10-A06  
 E10-A06  
 E10-A06B  
 derivatives  
 Quinoxaline B06-D06  
 C06-D06  
 E06-D06  
 Quinuclidine B06-D04  
 C06-D04  
 E06-D04

**R**

Racemase B04-L07  
 C04-L07  
 Racemates  
 separation by J01-X02  
 Racemisation process B11-C01  
 C11-C01  
 E11-J02  
 Racquets A12-F01B  
 Radiation  
 measurement K08-A  
 photographic exposure to G06-G18  
 protection against K07-A  
 sensitive resists A12-L02+  
 Radiation sensitive system  
 (element in system) G06-F+  
 diazo element G06-F02  
 heat sensitive G06-F08  
 inorganic photoconductor,  
 other than selenium or  
 zinc oxide G06-F07  
 inorganic photoconductor,  
 selenium (alloy) or zinc oxide G06-F07A  
 G06-F05  
 light-sensitive dye G06-F05  
 non-silver metal or  
 compound G06-F04  
 organic photoconductor  
 (including electro-  
 photographic) A12-L02+  
 G06-F06  
 G06-F03+  
 photosensitive polymer G06-F03D  
 photosensitive polymer,  
 containing monomer G06-F03B  
 photosensitive polymer,  
 polymer containing  
 composition G06-F03C  
 photosensitive polymer,  
 polymeric photoconductors A12-L05B  
 G06-F03A  
 G06-F01+  
 silver halide  
 silver halide core-shell  
 emulsion G06-F01B  
 silver halide tabular  
 grains emulsion G06-F01A  
 silver salt (other than halide)  
 G06-F  
 Radio frequency welding of  
 polymers A11-C01+  
 Radioactive  
 decontamination K07-A03  
 decontamination of water D04-B07  
 metal elimination from body B12-J05  
 B14-M01  
 C12-J05  
 C14-M01  
 tracer bound to antigen  
 or antibody B11-C07A3  
 C11-C07A3

tracer test	B11-C07B5 C11-C07B5 H01-A02B	organic	E05-P	waste removal	K05-B07C
well logging		Rare earth oxides production	L02-G01C L02-G12D	Reagent, analytical	J04-B01B
Radioactive compounds - see also specific element	B05-A04+ C05-A04+ E05-Q E05-R	Rare gas	B05-B02C C05-B02C E31-J E31-J E05-K	Receivers and housings, telephones	A12-E12
organic		compounds, inorganic compounds, organic	E31-J E05-K	Receiving agent (photographic)	G06-A04
Radioactive element (non-metal)	B05-A04+ C05-A04+ E05-R E31	Rare gas catalysts	N04-A	Receptors adrenergic (alpha and/ or beta)	B04-K01B C04-K01B
Radioactive fall-out shelters	K07-A02B	Rauwolfia alkaloid	B04-A05 C04-A05	androgen	B04-K01L1E C04-K01L1E
Radioactive waste treatment concentration encapsulation encapsulation, in glass gas treatment long-term storage polymer use in solidification	K07-B K07-B01 K07-B01 L01-F K07-B02 K07-B01A A12-W11C K07-B01	Raw material, mechanical treatment in papermaking	F05-A01	angiotensin	B04-K01N C04-K01N
Radiochemistry	K09-E	Rayon chemical features dyeing/printing of	A03-A05+ F01-D06 F03-F09	antibody	B04-K01W C04-K01W
Radioprotectant	B14-M02B C14-M02B	Razor blades	A12-V04	bacterial/bacterial antigen	B04-K01T C04-K01T
Radios	A12-E12	Reaction apparatus Cyclization reaction Decyclization (ring opening) reaction Ring opening (decyclization) reaction	E11-A01 E11-A02 E11-A02	blood cell/blood cell antigen	B04-K01R C04-K01R
Radiotherapy	B14-S26 C14-S26	Reaction injection moulding	A11-B12+	cancer cell/cancer cell antigen	B04-K01S C04-K01S
Radium catalysts	N03-A03	Reactions (analytical)	J04-B01B	cholinergic corticosteroid	B04-K01A B04-K01L3 C04-K01L3
Radium compounds	B05-A04 C05-A04 E34-E03 E05-Q	Reactions, in chemical modification of polymers	A10-E+	dopamine	B04-K01C C04-K01C
inorganic		Reactive diluents for polymers	A08-P+	estrogen	B04-K01L2 C04-K01L2
organic		Reactive dyes see also under type or dye in (E02) i.e. azo, anthraquinone, phthalocyanine for dyeing/printing fibre	E25-G F03-F19	general and other	B04-K01 C04-K01
Radomes	A12-E	Reactor, nuclear	K05-A	growth factor	B04-K01J C04-K01J
Radon (element)	B05-A04 C05-A04 E31-J	accessory	K05-B	histamine (H1, H2)	B04-K01F C04-K01F
Radon compounds	B05-A04 C05-A04 E31-J E05-Q	cables	K05-B07E	insulin	B04-K01M C04-K01M
inorganic		chemical production of fuel component	K05-B04A K05-B	interleukin	B04-K01G C04-K01G
organic		control	K05-B06	leukotriene	B04-K01H C04-K01H
Rain proofing of fabric non-resinous	A12-S05R F03-C02A	coolant	K05-B03	lipoprotein (HDL, LDL)	B04-K01H C04-K01H
resinous	A12-G03 F03-C02A	coolant flow control defective fuel location fast fission fuel fuel element construction fuel rod handling fusion	K05-B06B K05-B06C K05-A01 K05-B04 K05-B04B K05-B07A K05-A03	melanin concentrating hormone	B04-K01Y1 C04-K01Y1
Rainwater goods	A12-R02	inspection apparatus	K05-B07J	non-steroidal nuclear hormone	B04-K01X C04-K01X
Raising fabrics	F03-A	liquid metal coolants maintenance	K05-B03A K05-B07D	other cell/microbe/antigen	B04-K01V C04-K01V
Raney catalyst for polymerisation	N06-C01 A02-A06	measurements, other moderator	K05-B06D K05-B05	other hormone receptor	B04-K01P C04-K01P
Rapid release	B12-M10C C12-M10C	moderator, deuterium, heavy water	K05-B05A K05-B06A K05-B07G	other modifier of cell function and growth	B04-K01K C04-K01K
Rapier weaving/loom	F02-A04B	neutron flux control other components	K05-B07E K05-B07E	other steroid	B04-K01L4 C04-K01L4
Rare earth catalysts	N03-A	pipes	K05-B07E	parasympathetic	B04-K01A C04-K01A
Rare earth metal alloys - for magnetic purposes in glass composition production	L03-B02A5 L01-A02 M25-G21	pressure vessel process pumps servicing shielding shut down thermal thermal, gas-cooled thermal, liquid metal-cooled thermal, water-cooled	K05-B01 K05-A K05-B07F K05-B07D K05-B02 K05-B06A1 K05-A02 K05-A02A K05-A02C K05-A02B	peroxisome proliferator activated	B04-K01X1 C04-K01X1
Rare earth metal compounds	B05-A03B C05-A03B E34-E			sympathetic	B04-K01B C04-K01B
inorganic inorganic compound pigments	G01-A15			thromboxane	B04-K01H C04-K01H

thyroid	B04-K01X2 C04-K01X2	Red sensitive (electro)photographic layer	G06-C14A	Refractory cement or concrete	L02-E05
viral/viral antigen	B04-K01U C04-K01U	Redox catalysts for polymerisation	A02-A03	coating of metal	M13-H04
Reclaiming		Reduced polymer	A10-E13	composition, polymer use (excluding core moulds)	A12-W12G
mould material	M22-B02	Reducers, permeability (polymer use in mining, oilwells)	A12-W10C	metal alloy	M26-B13
polymers	A11-C03+	Reductase agonists	B14-L01A1 C14-L01A1	Refrigerants	G04-B01+
Recombinant cells	D05-H14	Reductase inhibitors	B14-D05D C14-D05D	halogen containing	G04-B01A
Antibody-producing cells	D05-H15	Reductases	B04-L03D C04-L03D	containing fluorine as the only halogen	G04-B01A1
bacteria	D05-H14A1	Reduction process	B11-C01 C11-C01 E11-D	containing both fluorine and chlorine	G04-B01A2
fungi	D05-H14A2	for polymers	A10-E13	fluoroether refrigerants	G04-B01A3
insect cells	D05-H14B1	Reed switches	L03-B04A	hydrocarbon refrigerants	G04-B01B
mammalian cells	D05-H14B2	Reeling yarns	F01-H03+	CO <sub>2</sub> as a refrigerant	G04-B01C
microbial (specified) other than D05-H14A1 and D05-H14A2	D05-H14A3	Refinery products by cracking	A01-B04	other specific chemicals as refrigerants	G04-B01E
microbial (unspecified)	D05-H14A	Refining non-ferrous metals, carbonyl reduction	M25-D	refrigerant compositions or blends	
plant cells	D05-H14B3	Reflectors	L03-G02G	refrigerants	G04-B01F
Recombinant cell lines	D05-H14B	Reflowing of electrodeposited metal	M11-B03	Refrigeration	J07-A J07-C
Recombinant cell lines (specified) other than D05-H14B1, -H14B2 and -H14B3	D05-H14B4	Reforming catalysts	H04-F02C	lubricants	J07-A09 H08-D11
Recombinant protein production	D05-H17	Reforming process	B11-C C11-C E11-H H04-C	media of foodstuffs	J07-A08 D03-H02
fusion protein	D05-H17C	Refractive index of polymers	A09-A02	Refrigerators	A12-D04
mutant protein	D05-H17B	Refractories		Regenerated cellulose	A03-A05+ B04-C02A1 C04-C02A1
wild-type protein	D05-H17A	acidic	L02-E03	Regenerated cellulose fibres chemical feature in production	A03-A05A F01-D06
Reconstituted tobacco	D07-D	amphoteric	L02-E09	dyeing/printing	F03-F09
Recording		basic	L02-E04	solvent dyeing	F03-F13A
devices, magnetic	A12-E08A+	carbon or carbon-containing	L02-E07	Regeneration of pulp liquors in papermaking	F05-A02C
direct electron	G06-D03	cast	L02-E08	Regulation sequences	D05-H12D5
magnetic tape	A12-E08A1	castable	L02-E05	transcription	D05-H12D5
Records, gramophone	A12-W01	casting	L02-A05	translation	D05-H12D5
Recovery of		core material	L02-E06	Regulation, heat treatment (ferrous)	M24-D07
biological substances and materials	B11-B C11-B D05-H13	decorating	L02-A07	Regulators for polymerisation	A02-B
catalysts	N06-E	diatomaceous	L02-E02	Reheating furnaces for metal	M21-N04
nuclear fuel	K06-C	drying	L02-A03	Reinforced	
polymer scrap	A11-C03+	fireclay	L02-E02	concrete	L02-D05
solvent vapour from gases	J01-E01	firing	L02-A04	plastics	A12-S08+
waste textile materials	F03-E	flame (plasma) spraying for glass furnaces	L02-A06	plastics, glass fibre	A12-S08B
Recovery process, general	B11-B C11-B E11-Q	glazing	L02-A07	plastics, hoses, tubes, pipes	A12-H02B
Recrystallisation of polymers during purification	A10-G01+	gunnable	L02-E05	plastics, laminates	A12-S08A
Rectification of polymers	A10-G01+	melting	L02-A05	plastics, lay up of	A11-B09+
Rectifiers		mouldable	L02-E05	plastics, panels, sheets	A12-S08A
diodes	L04-E02	neutral	L02-E09	plastics, phenol- formaldehyde resin in	A05-C03A
Recycling of ceramics	L02-A13	polymer use in	A12-W12G	plastics, phenolic resin in	A05-C01B1
Recycling of fabric products	F03-E02	preparation of materials	L02-B	plastics, thermoplastics	A12-S08E
Recycling of elect(ron)ic materials	L03-J01	production (methods and equipment)	L02-A	plastics, uses	A12-S08D+
Recycling of glass	L01-B02	raw material preparation		Reinforcing agents for polymers	
Recycling of polymers	A11-C03+	equipment	L02-A02	Relaxing of fibres	F01-H05
Recycling of semiconductors	L04-X06	shaping	L02-A03	Relays	L03-B04
Recycling of waste	J09-C01A	testing	L02-A08	contact breakers	L03-B04B
Recycling of waste water (apparatus)	D04-A06	Refractories, ceramics, cements general	L02	Release coating compositions	G02- A05D
Red phosphorus flame retardant	A08-F03			Release layer, photographic	G06-A05

Releasing photographically active components on processing excluding dyes	G06-C15	Resin concrete	A12-R01A L02-D07B	Resorcinol	E10-E02A E10-E02D5 A01-E13 A05-C02
Removal of catalyst from polymer chemicals	A10-G01A E11-R	Resin system development, photographic	G06-G17	condensant phenoplast derived from	A05-C02
Halohydrocarbons impurities from water	D04-B06E D04-B	Resins (general)	B04-C03 C04-C03	Resorcinol-formaldehyde resin	A05-C02
monomer from polymer non-cellulosics in paper-making	A10-G01A F05-A02+	addition in paper manufacture	A12-W06+ F05-A06C	Respirators, polymer use	A12-V03B
of inorganic contaminants	J01-X01B	addition type, general	A04-H00H	Respiratory active	B12-K06 B14-K01 C12-K06 C14-K01
of organic contaminants	J01-X01C	condensation type, general	A05-K00K	Restenosis treatment	B14-F01G C14-F01G
scale on polymerisation vessels	A10-G02	encapsulation of semiconductors	A12-E04 A12-E07C L04-C20A	Restrainers for photographic development	G06-H13
workpiece from sewing machine	F02-F01B2	natural	A03-C02 B04-C03D C04-C03D G02-B01 A03-C04	Retardant for adsorption properties of fabric	
Removers, chemical, for ink and paint	G02-A03C	petroleum reinforced with specifically designed fabric	F03-D04	Retardant for adsorption properties of fabric	F03-C02+
Renewable energy devices	A12-W16	Resist coating apparatus for semiconductor manufacture	G06-D06 G06-E04 L04-D08	Retarders for concrete set	L02-D14A
Renin inhibitor	B12-F05A B12-G01 C12-F05A C12-G01	Resist dyeing/printing of fibres or fabrics	F03-F28	Retarders for crosslinking of addition (co)polymers of other polymers	A08-C06 A08-D+
general or unspecified	B14-D07C C14-D07C	Resist materials in semiconductor processing	G06-D06 L04-C05	Retarding water penetration in concrete	L02-D14Q
used as hypotensive	B14-F02B1 C14-F02B1	Resistance methods	M23-D02A	Retinol	B03-A C03-A
Repair of polymer articles	A11-C	Resistance welding apparatus	M23-D02 M23-D02B2 M23-D02A1 M23-D02B1 M23-D02A4 M23-D02A2	Retreading of tyres	A12-T01D
Repellence agent for polymer	A08-S08	butt	M23-D02A1	Retrovirus	B04-F11B1 C04-F11B1
Repellents		circuits	M23-D02B1	Retting to obtain vegetable fibres	F01-B02
additive for polymers against animals, insects, etc.	A08-M02	other	M23-D02A4	Reuse of Marine production platform components	H01-B01E A12-T01D A11-C03
additive for polymers against oils or water	A08-S08	seam	M23-D02A2	old tyres	A12-T01D
against animals	B14-B13 C14-B13	specialy adapted for particular work	M23-D02A5 M23-D02A3	polymers	A11-C03
against animals other than insects	B14-B13 C14-B13	spot		Reversal processing	G06-G16
against insects	B12-L06 B14-B05 C12-L06 C14-B05 D09-E02	Resistive oxide compositions including ceramic oxide	L02-G07D	Reverse osmosis	A12-W11A J01-C03A
against mammals including rodents	B12-N06 C12-N06 F03-C02+	Resistivity of polymers	A09-A03	water treatment, apparatus	D04-A01E
for fabrics	F03-C02+	Resistors (electrical)	A12-E07C L03-B	water treatment, membrane	A12-W11A
Reperfusion treatment	B14-F05 C14-F05	fixed	L03-B01B L03-B01A4 L03-B01A3	water treatment, waste	D04-A01D D04-B10
Reporter gene	B04-E12 C04-E12	gas sensitive	L03-B01A4	Reverse transcriptase	B04-L04B C04-L04B
Repressuring (oil production)	H01-D07	moisture sensitive	L03-B01A3	agonists	B14-L01A2 C14-L01A2
Reprographic method for printed circuit production	A12-E07A A12-L02B2 G06-D06 L03-H04E2	semiconductor	L04-C12G	inhibitors	B14-D06B C14-D06B
		thick film	L03-B01C	Rhenium catalysts	N02-E02 N03-E
		variable	L03-B01A	for polymerisation	A02-A06+
Reserpine	B04-A05 C04-A05	Resists	A12-L02+	Rhenium compounds	B05-A03B C05-A03B
Reservoir device	B12-M10A2 C12-M10A2	photo (excluding printing plates etc.)	G06-D04	inorganic	E35-T E05-N
Residues in pulping, uses	F05-A02C	photosensitive printing	G05-B	organic	E05-N E05-N03A
Residuuum (petroleum)	H08-C	semiconductor processing	G06-D06 L04-C06B	Rheumatoid arthritis treatment	B12-D03 B14-C09B C12-D03 C14-C09B
		Resols	A05-C+		
		Resolution processes	B11-B C11-B E11-L		

Rhizogenes	B12-P08 C12-P08 C14-U01D	Micro RNA	B04-E07D C04-E07D D05-H12D8B	Rooting compound	C12-P08
Rhodium alloys	M26-B01	Short interfering RNA	B04-E07C C04-E07C D05-H12D8A	Rooting compounds	B12-P08 C14-U01D
electrodeposition	M11-A05			Roots	B04-A09D C04-A09D
production	M25-G20	Road		extracts	B04-A10F C04-A10F
Rhodium catalysts for polymerisation	N02-E A02-A06+	paints	A12-R G02-A05F	Ropes	A12-P07 F04-A
Rhodium compounds	B05-A03B C05-A03B	signs	A12-R	Rosin	A03-C02 B04-C03 C04-C03
inorganic	E35-X	surfacing compositions	A12-R09 L02-D09	maleinised	A10-E03 A10-E23
organic	E05-M E05-M02B	Roasting coffee	D03-D01D	Rot-proofing of fabrics non-resinous	A12-S05R F03-C02B
Ribbed tube production	M21-C	Roasting, briquetting and sintering		resinous	A12-G F03-C02B
Ribbons	A12-S06+ F02-E02	ferrous ore	M24-A01A	Rotary drying furnace	J08-G05 J09-A03 L02-A02
(polymer form)	A12-P07	non-ferrous ore	M25-A02	mixer	J02-A02B
typewriter	A12-D05A F02-E02	Roasting food	D03-K01	Rotary drilling derricks	H01-B03 H01-B03A1
Riboflavin	B03-C C03-C	Robotics, polymer processing by	A09-D	drill bits	H01-B03C1
Ribozyyme	B04-E07A C04-E07A D05-H12D4	Rocket fuel	A12-T03C K04-C01	drill collars	H01-B03C2
Rice	D03-L	Rockets (polymer use)	A12-T03	drill pipe	H01-B03C3
Crackers products	D01-B02C D03-L	Rod formation (glass)	L01-F02	hoists	H01-B03A3
Rice blast treatment	B12-A02 C12-A02	Rodent repellent	B12-N06 B14-B13 C12-N06 C14-B13	kelly	H01-B03C4
Rickettsia	B04-B02B1 B04-F10A7 C04-B02B1 C04-F10A7	Rodenticide	B12-N05 B14-B09 C12-N05 C14-B09	mud processing	H01-B03A2
Rifamycin	B02-R C02-R	Rods, fishing	A12-F01	rig floor equipment	H01-B03A
Rigid-pack	A12-P06B	Rods, welding	M23-F	rotating equipment	H01-B03A3
RIM	A11-B12+	Roll bonding metals	M13-H01 M23-E01	valves/control equipment	H01-B03B3
Ring expansion/contraction process	B11-C C11-C E11-B01	Rollers (polymer use)	A12-H11	drilling riser	H01-B03C6
Ring formed during modification of polymers	A10-E14	Rollers for rolling mills, manufacture of	M21-A02A	Rotational moulding of polymers	A11-B04A
Ring opening		Rollers, mixing of polymers on	A11-A03+	Rotenone	B04-A07B C04-A07B
deacyclization apparatus	E11-A02	Rolling		Rouges, abrasive	L02-F02
deacyclization process	E11-A02	glass	L01-D02	Rubber (natural)	A03-B B04-C03D C04-C03D
polycondensation	A10-D03	lubricants	H08-D07 M21-A06	Rubber bands	A12-P07
Ring spinning	F01-G01	metal stock	M21-A	Rubber latexes	A07-B01
Ring-closure polycondensation	A10-D03	webs of fabric	F03-K01	Rubber vulcanisation	A11-C02A
Ringless spinning	F01-G02	Rolling mills	M21-A	Rubefacient	B12-L02 B14-R01 C12-L02 C14-R01
Rings, 'O' or piston (polymer use)	A12-H08	coilers	M21-A05	Rubidium catalysts	N01-A
Risers; drilling	H01-B03C6	components	M21-A02	Rubidium compounds	B05-A01B C05-A01B
Riveting of metal sheets, wires, rods, tubes or profiles	M21-J	control mechanisms and processes	M21-A07 M21-A05	inorganic	E33-H
polymer material	A11-C01+	cooling beds	M21-A04	organic	E05-A E05-A02
Rivets (polymer use)	A12-H12	feeding devices	M21-A03B	Rugs	A12-D02 F04-D04
RNA general	B04-E01 C04-E01	sheet mills	M21-A02	Runways	
RNA interference	B14-S03C C14-S03C	stands	M21-A03A	compositions	A12-R09
		strip, bar and wire mills	M21-A05	signs	A12-R
		take-off devices	M21-A03	Rupturable container for photographic reagent	G06-E03
		tube and pipe mills	M21-A03		
		Rolls - see Rollers			
		Roof			
		artificial	L02-D09		
		felt	F04-B02		
		lighting	A12-R04		
		Roofing (polymer use)	A12-R05		



Rust preventing paints	A12-B04+ G02-A05E	<b>S</b>	Saponified ethylene-vinyl acetate	A10-E09+	
Rusts treatment	C14-A06R		Saponified/ saponification of polymers	A10-E09+	
Ruthenium alloys production	M26-B01 M25-G20	Saccharomyces	B04-F09C C04-F09C	B04-A07E C04-A07E	
Ruthenium catalysts for polymerisation	N02-E N02-E01 A02-A06+	Sachets	A12-P06C	Sarkomycin	B02-S C02-S
Ruthenium compounds inorganic organic	B05-A03B C05-A03B E35-X E05-M E05-M02A	Sacks	A12-P02	Sauce	D03-H01H
Rutile pigment filler	A08-E02 E35-K G01-A08	Safety		Sausages	D02-A03C D02-A03D
		airbags	F04-E03A	Sawdust	B04-A07D3 B04-A09G C04-A07D3 C04-A09G
		belts, fabric	F04-E03B	filler/reinforcing agent for polymers	A08-R07
		belts, transport clothing	A12-T04E A12-C02 F04-C06	Sawing of plastics	A11-A05+
		devices for metal working	M21-N03	SBR	A04-B03+
		devices for polymer processing	A09-D+	Scale inhibition additives for polymers in polymerisation vessels in water systems use of polymers in	A08-S08 A10-G02 D04-A03A A12-W11J
		devices, transport gloves helmets	A12-T04E A12-C02A A12-C02B	Scale removing see Scale inhibition	
		Sail boards	A12-F01	Scandium catalysts	N03-A01
		Salicylate therapy dalicylate therapy	C12-D09	Scandium compounds inorganic organic	B05-A03B C05-A03B E34-E01 E05-L03 E05-L03A
		Saliva pumps	D08-A04	Scar treatment	B14-N17F C14-N17F
		Salmonella	B04-F10A8 C04-F10A8	Scarfiging (flame)	M23-C
		Salt (common)-(NaCl)	B05-A01B C05-A01B E33-B	Scent - see Perfumes	
		Salt baths, heat treatment of iron and steel	M24-D02C	Schistosomes	B04-B02B B04-P01 C04-B02B C04-P01
		Salt, metal, formation during chemical modification of polymers	A10-E21+ A10-E22+	Schistosomicide	B12-B06 B14-B03B C12-B06 C14-B03B
		Samarium compounds	B05-A03B C05-A03B N03-A01 E34-E02B E05-P	Schizophrenia treatment	B14-J01B3 C14-J01B3
		catalysts inorganic organic	J04-C01 B11-C08C C11-C08C	Scintillator	L03-G10S
		Sampling devices for testing	A04-C04B A04-D03	Schottky contacts, manufacture in semiconductor processing	L04-C11B
		SAN		Scopolamine	B04-A01 C04-A01
		Sand casting (see also foundry moulding)	M22-A	Scouring composition production	G04-B08 D11-D04
		Sand filler for polymers	A08-R06A	Scouring of fabrics	F03-B
		Sandpaper	A12-A03 G04-B04	Scrap recovery non-ferrous metal extraction polymers tyres	M25-E A11-C03+ A12-T01D
		Sanitary napkins, towels	A12-V03A D09-C02 F04-E04	Scrap treatment for iron and steel production	M24-A07A
		other products ware	D09-C02B A12-R02		
		Sap (plant) produced by pressing	B04-A07D4 B04-A09H C04-A07D4 C04-A09H		

Scrapie treatment	B14-N16D C14-N16D	Sebacic acid	E10-C02D E10-C02D2 A01-E12	Selenium compounds	
Scratch resistant coating/ layer, photographic	G06-A08	condensant		inorganic	B05-B02C C05-B02C E31-G
Screening		Seborrhea treatment	B12-L05 B14-R02 C12-L05 C14-R02	organic	B05-B01D C05-B01D E05-K
electromagnetic high content	A12-E01A B11-C10B C11-C10B	Secondary growth inhibitor (plants)	C12-P09	Selenium element	B05-B02C C05-B02C E31-G
Screening, photographic dyes techniques	G06-A02 G06-E01	Secondary growth inhibitors (plants)	B12-P09 C14-U01E	Self-bonded	
Screens (coarse filters) for paper-making pulp solids well equipment	F05-A03 J01-K04 H01-C07	Secretin	B04-J12 C04-J12	Self-bonded non-woven fabrics	F02-C01B1
Screens for discharge tubes fluorescent compositions production	L03-C L03-C02B L03-C04A	Security documents with magnetic recording	L03-B05H	Self-extinguishing property of polymers	A09-A01
Screws		Sedative	B12-C08 B14-J01B2 C12-C08 C14-J01B2	Semen	B04-B02D B04-F03 C04-B02D C04-F03
for extrusion for mixing of polymer forms made of plastic	A11-B07+ A11-A03+ A12-H12	Sedimentation of particles in liquids solids for differential separation waste water or sewage	J01-F01 J01-K03 D04-A01B D04-A01L D04-B09	Semi-finished materials of polymers	A12-S+
Scutching fibres	F01-A02	Sedimentation separation in test	B11-C08D C11-C08D	Semi-liquid application to surfaces	J02-C02
Sea farming	A12-W04+	Seeding agent for polymerisation	A02-D	Semi-liquid freezing	J07-B
Sea food	D03-A02	Seeds	B04-A07D2 B04-A09F C04-A07D2 C04-A09F A12-B09 A12-W04B D03-A05 B04-A10G C04-A10G B12-P09 C12-P09 C14-U01E B04-A07D2 B04-A09F C04-A07D2 C04-A09F B04-A07D2 B04-A09F C04-A07D2 C04-A09F	Semi-permeable membrane	A12-W11A J01-C03 J01-E03E J01-E02C
Sea water desalination	D04-A D04-B07F	coatings on coatings in, agricultural edible, preservation of extracts		gas separation use waste gas treatment use	
Sea-island fibres	A12-S05B F01-E01	germination inhibitor		Semi-solid lubricant	H07-D
Sealants	A12-R08 G04-B02 J07-A10 A12-E06C L01-H07	husks		Semicarbazone	B10-A13D C10-A13D E10-A13B E10-A13B1 E10-A13B2
for refrigeration and ac for batteries for joining glass		meal		Semiconductive oxide compositions silicon	L02-G07D L04-A01
Sealing		protectant	B12-N07 C12-N07 C14-U02 B12-K04 C12-K04 B12-P03 C12-P03 C14-U01B	Semiconductor devices	A12-E07C L04-E L04-F L04-F01 L04-C10A1 L04-C23
circuits into packages or housings composition polymers	L04-F05 G04-B02 A11-C01+	viability determination		assemblies assembly on a substrate electrical fuses lead frames photographically produced polymer use in substrates testing, process monitoring and control	L04-C18
Seals	A12-H08 A12-E06C L03-E01D L02-J01C L01-H04A L03-C03A A12-P03	yield increasing		Semiconductor layer doping by diffusion doping by gaseous, liquid or solid contact doping by ion injection growth by chemical vapour deposition (CVD) and plasma deposition growth by epitaxial growth by liquid epitaxy vapour deposition	L04-C02D L04-C02C L04-C02B L04-C01B L04-C01 L04-C01A L04-C01C
battery		Seismic surveying	H01-A01A	Semiconductor manufacture cathode sputtering diffusion apparatus heat treatment furnaces ion and plasma deposition apparatus liquid phase deposition	L04-D02 L04-D06 L04-D05 L04-D04
ceramic-metal glass-metal lamp packaging		Selenide ceramics	L02-H05		
Seam welding		Selenium (alloy or compound) photoconductor	G06-F07A		
electric arc resistance	M23-D01A1 M23-D02A2	Selenium catalysts	N04-A		
Seamed metal tube production	M21-C				
Seasoning of wood or timber	F05-B				
Seats for automobiles fabric use	A12-T04B F04-E03C				
Seaweed	B04-A07D5 B04-A08 C04-A07D5 C04-A08				
artificial, e.g. for preventing erosion	F04-G				
Sebacates plasticisers/ extenders for polymers	A08-P04				

apparatus	L04-D03	materials, polymeric resists	A12-E07C	memory elements	L04-E15
ohmic contacts	L04-C11A		A12-L02B2	Metal coatings, processes	M13-F03A
vapour deposition apparatus	L04-D01	microwelding	L04-C17C	photodiodes	L04-E02A
Semiconductor processing	L04-C	nitride insulating layers	L04-C12B	photoresistors	L04-E05G
aligning masks and layers	L04-C06D	other conductive tracks	L04-C10F	phototransistors	L04-E01G
aluminium alloy		oxide layers	L04-C12A	resistor	L04-C12G
antireflective coating	L04-C05A	patterning techniques	L04-C06	single crystals manufacture	L04-B
conductive tracks	L04-C10C	pellicle design/manufacture	L04-C06A1	switches	L04-E08
amorphous layers	L04-C03	phase change materials	L04-C28	wafer production slicing, polishing etc.	L04-B04
ancillary equipment	L04-D10	photoetching	L04-C07G	waste processing	L04-X02
attaching lead frames	L04-C24	plastics passivation layers	A12-E07C		L04-X03
buried layer production	L04-C10G		L04-C12E	water production	L04-X01
by liquid phase etching	L04-C07C	precious metal (alloy)		Semipermeable	
by plasma etching	L04-C07D	conductor tracks	L04-C10E	property of polymer	A09-A09
conductive + insulating layer formation	L04-C14	resin encapsulation	A12-E04	Senile dementia treatment	B12-C10
conductive layer conversion to semiconductor or insulator	L04-C10H		A12-E07C		B14-J01A4
conductive layers and track manufacture	L04-C10	resist coating apparatus	L04-C20A		C12-C10
conductive polycrystalline silicon layers	L04-C10B	resist coating apparatus, photographic	L04-D08	Senility treatment	B12-G04A
conductive tracks, circuits	L04-C10A	resistor	G06-D06A		B14-J01A4
contacts, terminals, electrodes manufacture	L04-C11	resists	G06-E04		C12-G04A
conversion of insulating layers to semiconducting or conducting layers	L04-C12F	resists, photographic	L04-C12G		C14-J01A4
copper alloy conductive tracks	L04-C10D	sealing devices into housing	L04-C06B	Sensitisers for explosives	K04-G
doping of layers and region	L04-C02		G06-D06A	Sensitisers, photographic	
electrodes	L04-C11C	semiconductor-on-insulator	L04-C21	chemical	G06-H01
electrophotography	G06-D06A	soldering apparatus	L04-C12C1	optical	G06-H07+
encapsulation	L04-C20	soldering techniques	L04-D07	spectral	G06-H07
encapsulation, polymers in	A12-E04	soldering techniques	L04-C17A	spectral, cyanine	G06-H07A
etching	L04-C07	temporary bonding	L04-C17D	spectral, merocyanine/neutrocyanine	G06-H07B
forming layers with simultaneous doping	L04-C02A	terminal posts	L04-C11D	spectral, oxanol	G06-H07C
forming through holes		thermocompression bonding	L04-C17B	spectral, pyrylium	G06-H07D
between conductive layers	L04-C13A	through hole connection formation	L04-C13B	Sensors (electrical)	A12-E13
furnace furniture, crucible boats, wafer supports etc.	L04-D09	trench isolation	L04-C12C2	Sensors, non-electrical	A12-L04B
glass passivation layers	L04-C12D	vapour phase etching, dry etching	L04-C07B	Separation	B11-B
groove formation, dicing, chip cutting	L04-C07E	washing, rinsing and drying of wafers etc.	L04-C09		C11-B
heat sinks	L04-C25	Semiconductors	L04	by adduct formation (petroleum)	E11-Q
heat treatment	L04-C16	ancillary processes	L04-X	methods for testing or diagnosis	H02-D02
hole and window manufacture	L04-C06C	apparatus	L04-D		B11-C08B
insulating and passivating layers	L04-C12	bonding processes	L04-C17	of gases by liquefaction or solidification	C11-C08B
ion beam etching	L04-C07A	clean room	L04-X04	of particles from gases	J07-D02
isolation of mesas, islands	L04-C12C	encapsulation, moulds and handling equipment	L04-C20C	of separation of isotopes	J01-G
LOCOS	L04-C12C3	encapsulation, moulds and handling equipment, polymers in	A12-E04		J01-J
marking defective devices	L04-C19		A12-E07C	of particles from liquids	K08-X01
mask design and manufacture	L04-C06A	image sensors	L04-E05A	of solids	J01-F
mask design and manufacture, photographic	G06-D06A	infrared detectors	L04-E05C	Separators	J01-K
	G06-E02	integrated circuit encapsulation with lead frame assemblies	L04-C20D	oil production	H01-D04
masking + patterning + etching	L04-C08	integrated circuit encapsulation with lead frame assemblies, polymers in	A12-E04	primary and secondary cells	A12-E06B
masking and resist material	L04-C05	lasers	A12-E07C	fuel cell	L03-E01A
masking and resist materials, photographic	G06-D06	light receiving and detecting devices	L04-E03B	Sephadex®	L03-E04G
	G06-E02	recycling	L04-E05		A03-A+
masking and resist		Fluorescent and luminescent materials for semiconductor manufacture	L04-X06	Sequestering agents	B04-C02C
				adding to water	C04-C02C
				in detergents	D04-A03
				polymer additives	D11-B06
				Sermatophytes	A08-A07
					B04-A08C
					C04-A08C

Serotonin antagonist	B12-G01 B14-J04 C12-G01 C14-J04	Shaving brush soapless	A12-V04 D08-B07	plasma substitute treatment	B12-H06 B14-F11 C12-H06 C14-F11
Serotonergic	B14-J03 C14-J03	Shear precipitating fibres and fibrils	F01-C07	septic shock treatment	B14-S06 C14-S06
Serum albumin blood	C04-B04D2 C04-B04D4	Shearing of fabrics plastics	F03-A A11-A05	toxic shock treatment	B14-S06 C14-S06
Servicing oil and gas wells	H01-C10	Sheath-core fibres	A12-S05B F01-E01	traumatic shock treatment	B14-S07 C14-S07
Set accelerators for concrete manufacture	L02-D14	Sheathings for electrical conductors and cables	A12-E02+ G02-A05A	treatment general	B14-S05 C14-S05
Setting fibres with heat film with heat	F01-H05 A11-B02C	Sheaths, contraceptive	A12-V03B	treatment of electric shock	B14-S05 C14-S05
Severing of fabrics (including webs) polymers	F03-K03 A11-A05+	Shedding mechanisms for looms	F02-A02	treatment using electric shock (ECT)	B14-J06 C14-J06
Sewage treatment	B04-B04B C04-B04B A12-W11+ D04-A01J D04-B01 E11-Q	Sheet metal working bending and corrugating deep drawing flanging pressing and punching sheet mills (metal rolling) spinning stamping straightening stretch forming structure manufacture	M21-E M21-E01 M21-E03 M21-E01 M21-E02 M21-A03B M21-E03 M21-E02 M21-E01 M21-E03 M21-E04	Shock absorbers	A12-H09
Sewing accessories fasteners, button(holes) etc. threads to make specific goods	F02-F01+ F02-F01B+ F02-F01A1 F01-E F02-F01 F02-F01A+	Sheet moulding compounds	A12-S	Shock proofness of polymers	A09-A05A
Sewing machine control devices, micro-computers etc. feed or removal or trimming thread cutter workpiece feeder	F02-F01B1 F02-F01B2 F02-F01B2	Sheets casting process corrugated and discontinuous paper and cardboard extrusion of forming of heat sealing/welding involving laminated laminating (excl. A11-B09A+) reinforced plastics transfer	A12-S07+ A11-B04C F05-A04D A11-B07A A11-B08+ A11-C01A1 A12-S07A A11-B09D A12-S08A A12-W07F1	Shoes production of	A12-C04 F04-C05 F04-F02
Sexual dysfunction treatment Female sexual dysfunction Male sexual dysfunction	B14-P02 C14-P02 B14-P04 C14-P04 B14-P04B C14-P04B B14-P04A C14-P04A	Sheets, bed linen	A12-D01 F04-D01	Showers (polymer use)	A12-R02
Shades, lighting (polymer use)	A12-L03	Shell moulding of polymers	A11-B04B	Shrink packages	A12-P04
Shadow mask for CRT	L03-C03B	Shell moulds (polymer use)	A12-A02	Shrink proofing of fabrics non-resinous resinous	A12-S05R F03-C04 A12-G02 F03-C04
Shampoos	A12-V04A B12-L05 B14-R02 C12-L05 C14-R02 D08-B04	Shellac	A03-C02 B04-B04M C04-B04M	Shrink resistant textile finishes	A12-G02
Shape and form of coatings	G02-A07	Shells	K03-A01	Shrinkability, thermal of polymers	A09-A01A
Shape memory property	A09-A05B	Shielding for nuclear reactor from nuclear radiation	K05-B02 K07-A02	Shrinking of fibres of films textiles	A11-B02E F01-H05 A11-B02E F03-A02
Shaped glass manufacture process	by sol-gel L01-E08	Ships (polymer use)	A12-T+	Shutdown of reactor controlled	K05-B06A1
Shaping ceramics and refractories dough polymers	L02-A03 D01-A02 A11-B+ A11-C+	Shirts	A12-C03 F04-C03	Shutdown of reactors emergency	K05-B06A K05-B06A2
		Shiitake cultivation	D05-A04C	Shutters for windows (polymer use)	A12-R02A
		Shock anaphylactic shock treatment electro-convulsive therapy	B14-G02B C14-G02B B12-D10 B14-J06 C12-D10 C14-J06	Shuttle weaving	F02-A04A
				Shuttlecocks	A12-F01B
				Shuttleless weaving	F02-A04B
				Shuttles	F02-A05
				Siccatives	A08-C+ A08-D+ G02-B04
				Sickle cell anaemia treatment	B14-F03 C14-F03
				Side-by-side fibres	A12-S05B F01-E01+
				Sidewalls for tyres	A12-T01+
				Siding for buildings	A12-R+
				Sieve cloths	A12-H04 F04-E05+
				Sieving of solids	J01-K04
				Signalling pathway proteins	B04-N13 C04-N13
				Signs (polymer use) road	A12-W03 A12-R

Silage	B04-A07D B04-A09 C04-A07D C04-A09	organic compounds	B05-B01A C05-B01A	Silver halide containing radiation sensitive system core-shell emulsion tabular grain emulsion	G06-F01+ G06-F01B G06-F01A
Silane adhesion improver or coupling agent	A08-M01D	organic compounds with Si-C bond (aliphatic or alicyclic)	E05-E02	Silver oxide electrodes for batteries	L03-E01B7
Silanes inorganic organic	E31-P06 E05-E	organic compounds with Si-C bond (aromatic)	E05-E01C	Silver production	M25-G22
Silanes condensants/ monomers	A01-A03	organic compounds with Si-C bond (heterocyclic)	E05-E01B	Silver recovery from photographic processing solutions	G06-E
Silanols condensants	A01-A03	organic compounds without Si-C bond	E05-E03 G01-A06	Silver removal from waste water	D04-B05 D04-B05A
Silastic ®	A06-A+	polycondensates Reactive silicon compounds	A06-A+ D11-B11B1	Silylation reactions	E11-F10
Silica alumina mixtures bound to enzymes catalyst support fillers	L02-G01B E31-P02 D05-A01A5 A02-D A08-R06A G01-A06	Silicon incorporated/ incorporation by polymer modification	A10-E22A	Singeing of fabric or textiles	F03-A
gel sorption (petroleum processing)	H02-B02	Silicon polymer coatings	A12-B01C G02-A01A	Single colour diffusion transfer material	G06-C10+
glass compositions, high	L01-A05	Silicone oils	A06-A+	Single crystals growing	J04-A04 L02-A09
glass compositions, low production or modification	L01-A04 E31-P01 L02-G12E	Silicone resins	A06-A+ A06-A00E1 G03-B01	growing by Czochralski, Bridgman methods	L04-B01
use with alumina catalyst	E31-P03 N01-C01 N01-C01A N01-C01B N01-D N01-D02	adhesives applications compounding fabrication paints	A06-A00E+ A06-A00B A06-A00C A06-A00E1 G02-A01A A06-A00A A06-A00D	Single crystalline alloy	M26-C04
without alumina catalyst	N01-D02	production treatment	A06-A00D	Single nucleotide polymorphism	B04-E09 C04-E09
Silicate additive for detergents inorganic	D11-B11 D11-B11A	Silk	A03-C01 B04-B04A B04-N02 C04-B04A C04-N02 F03-F02 G05-A04	Sinks cleaner	A12-R02 D11-D01E
Silicate filler	A08-R06B G01-A06	dyeing/printing screen stencil treatment to obtain natural fibres, chemical treatment to obtain natural fibres, mechanical	F01-B01 F01-A01	Sintering by open furnace apparatus ceramics coating of (or on) metal ferrous ore glass metal powder non-ferrous ore of polymers polymer pore formation by	J09-A04 L02-A04 M13-H02 M24-A01A L01-G02 M22-H03B M25-A02 A11-B14 A11-B06D
Silicic acid filler	A08-R06A G01-A06	Siloxane polymers	A06-A+	Sinusitis treatment	B12-D07 B14-N04 C12-D07 C14-N04
Silicides abrasive ceramic hard alloy	L02-F03 L02-H02B3 M26-B12	Silver	A06-A+	Site specific release using liposomes	B12-M10E C12-M10E B12-M10E1 C12-M10E1
Silicon (element)	B05-B02C C05-B02C E31-P06 B04-C03F C04-C03F	Silver alloys electrodeposition	M26-B01 M11-A05	using Antibodies	B12-M10E2 C12-M10E2
Silicon catalysts	N01-D N01-D03	Silver alloy contacts	L03-A01A1	Size control during extrusion of polymers	A11-B07D
Silicon chip devices made photographically	A12-E07C G06-D06	Silver catalysts	N02-E N02-E03	Sizes, polymeric, for fabrics or textiles sizes, polymeric, for fabrics or textiles	A12-G04
Silicon containing adhesion improver for polymers as part of an organic ring condensants	A08-M01D E05-E01A A01-A03 A08-C+ A08-D05 A08-R06+	Silver compounds	B05-A03B2 C05-A03B2 E35-B E05-M E05-M03B	Sizing of paper external internal	F05-A06B F05-A06C F05-A06D
crosslinkers	A08-R06+	inorganic organic	E35-B E05-M E05-M03B	Sizing yarn	F01-H06A
fillers	G01-A06	use in radiation sensitive system (excluding halides)	G06-F	Ski wax	G02-C
Inert compounds	D11-B11 D11-B11D2	Silver halide (black and white film)	G06-G02 G06-G01 G06-G02 G06-G04 G06-G03	Skiing (polymer use)	A12-F01
inorganic compounds	B05-B02C C05-B02C	bleaching, fixing developing fixing other process stabilisation	G06-G02 G06-G01 G06-G02 G06-G04 G06-G03	Skin (or extract)	B04-B04E C04-B04E
inorganic compounds excluding silica and silicates monomers	E31-P06 A01-A03				



Soil suspending agent for detergents	D11-B05	Solutions	B12-M07 C12-M07 A12-S	Spandex ® fibres	A05-G+ A12-S05D F01-D07
Sol gel processes ceramic manufacture	L02-A02A	of polymers		dyeing/printing	F03-F10
Sol-gel process for glass manufacture	L01-C06	Solvent auxiliary	B12-M09 C12-M09	Spark erosion	M23-D06
shaped glass manufacture	L01-E08	Solvent based lacquers	A12-B01B	Sparkling plug	L03-H05
shaping glass by unspecific processes	L01-F05	Solvent dyeing of cotton or regenerated cellulose	F03-F13+	Spasmogenic	B12-E05 B14-J05C C12-E05 C14-J05C
Solar cells (electrical)	A12-E11B L03-E05B	of other fibre substrates	F03-F13A F03-F13B	Spasmolytic	B12-E04 B14-J05D C12-E04 C14-J05D
heat collectors	A12-R02B J08-D	Solvent extraction	B11-B C11-B H02-C J01-C01	Spastic treatment	B12-E02 B14-J05D C12-E02 C14-J05D
panels	A12-R02B	of non-ferrous metals solid-liquid extraction	M25-B04 J01-C01A	Special amorphous form	B12-M11H1 C12-M11H1
Solder glass	L01-H03	Solvent in detergent compositions	D11-B16	Special dietary requirement foods e.g. diabetic, gluten free	D03-H01T5
Soldering apparatus	M23-A M23-A03	Solvent recovery/removal from polymer	A10-G01A	Special form catalyst	N06-C
apparatus for semiconductor contacts or electrical components	L04-D07	Solvent vapour recovery from gases	J01-E01	Special paper and carboard types	F05-A06+
flux	L03-A01B6 A12-W12F M23-A02	Solvents		Speciality product (petroleum)	H08-D
flux removers	D11-D01B2	for gas storage	J06-B06	Spectacles frames	A12-L03
metal compositions	M23-A01	for polymers	A08-S02	lens	A12-L02A A12-V02A
methods	M23-A04	petroleum products	H08-D03	Spectral analysis	J04-B01A J04-B01A2 J04-B01C5A J04-B01A1
printed circuits	L03-H04E6	Solvents for incorporating agents in photographic layers	G06-H19	optical spectroscopy	
semiconductors	L04-C17A			GC-MS	
testing	M23-A06	Somatomedins	B04-H06H C04-H06H	mass spectrometry	
together, to a substrate or in a circuit	L04-F02	Somatostatin	B04-J10 C04-J10	Spectral sensitiser	G06-H07+ G06-H07A G06-H07B G06-H07C G06-H07D
Soles	A12-C04	Somatotrophin	B04-B02D4 B04-J05J C04-B02D4 C04-J05J	merocyanine	
Solid food, testing and monitoring	D03-K04	Somatotropin-releasing factor	B04-J09 C04-J09	neutrocyanine	
Solid lubricant	H07-D	Sonosensitizers	B14-H06D C14-H06D	oxanol	
Solid oxide electrolyte cells	L03-E04A	Soporific	B12-C08 B14-J01B2 C12-C08 C14-J01B2	pyrylium	
Solid personal face and body wash	D08-B09A2B	Sorption (petroleum processing)	H02-B	Spectrophotometric tests	B11-C07B2 C11-C07B2
Solid skin care formulations	D08-B09A1B	Sorption-type refrigeration	J07-A02	Spectroscopy (mass) testing	B11-C08A C11-C08A
Solidified gases, vessels for	J06-B	Sound insulation	A12-R06 L02-D15B A12-S04B	Sperm	B04-B02D B04-F03 C04-B02D C04-F03
Solidifying gases for separation	J07-D01 J07-D02	boards		Sperm ejaculation inhibitors	B12-K03 B14-P01A C12-K03 C14-P01A
Solids separation by electrostatic or magnetic process	J01-K J01-K02	foam use in buildings	A12-R06	Spermaceti oil	B04-B01C2 C04-B01C2
by flotation	J01-K03	in vehicles	A12-T04B	Spermicide	B12-K03 B14-P01A C12-K03 C14-P01A
by sieving, screening using liquids, pneumatic tables or jigs	J01-K04 J01-K01	polystyrene foam use in polyurethane foam use in	A12-S01A A12-S02F	Spheres	E12-A13
Solubilisers	B12-M09 C12-M09	Soup	D03-H01H	Spheroidal graphite cast iron production	M24-C05
for detergent compositions	D11-B16	Soya beans oil from	B04-B01C1 C04-B01C1 D10-A D03-F02	Spike for fertiliser	B11-C C11-C
Soluble materials for pore formation of polymers	A08-B04	protein from			
Solution (co)polymerisation	A10-B04	Space vehicles	A12-T+		
Solution formation (excluding by polymerisation)	A11-A03+	Spaghetti	D01-B02E		
Solution graft copolymerisation	A10-C03C				
Solution mining (non-ferrous metal extraction)	M25-B				
Solution, coating polymer onto substrates	A11-B05D				

Spin dryer for laundering fabrics	F03-J01	Spray steel refining	M24-B02E	Staphylococcus	B04-B02B1 B04-F10B3 C04-B02B1 C04-F10B3
Spin dyeing	F03-F30	Spraying	J02-C01		
Spin finishes for fibres	F01-H06+	coating with polymer by	A11-B05B1		
Spin-bonding non woven fabrics	F01-C+ F02-C02	deodorization	D09-B01B	Staple fibres	A12-S05E F01-E09 F01-F
		metal	M13-C	production by cutting	
Spinal cord disease treatment	B12-E02 B14-N16 C12-E02 C14-N16	Spreading, coating with polymer by	A11-B05+	Staple yarn	F01-E09
		Springs	A12-H09	Starch	A03-A+ B04-C02B C04-C02B D06-H01
Spindles, textile (general)	F01-G F01-H01	Sprouting inhibitor (plants)	B12-P09 C12-P09 C14-U01E	acrylonitrile graft co-polymer	A03-A+ A04-D03+ D11-B10
Spinneret(te)	A11-B15A F01-C01	Sprues	A11-B12+	as detergent additive	B04-C02B3 C04-C02B3
Spinning	A11-B15+ F01-C08	Spun bonded fabric	A12-S05G F02-C01	modified	D06-A D04-B04
artificial filaments,		Spunlacing of non-woven fabric	F02-C02F	modified	
chemical features, general	F01-D	Sputter coating of metal	M13-G	processing raw material	
automated yarn system	F01-G04	metal, apparatus		removal from waste water	
die design	A11-B15A	including target metals	M13-G02	Static electricity, application	
dry	A11-B15C F01-C08A A11-C05C1	metal, processes	M13-G01	of electro (in)organic material	L03-H04B
flash	A11-B15A	polymer with metal	A11-C04B1		
heads	A11-B15B	Sputtering of ceramics	L02-A02B	Stators for electric motors	
melt	F01-C08B A11-B15B1 F01-C08B1	Squeeze bottles	A12-P06A	(polymer use)	A12-E08B
melt, high speed		Stabilisers	A08-A+ B12-M06 C12-M06 A08-A06	Steam condenser	J08-A J08-A05
open-end	F01-G05	antioxidant	A08-A05	auxiliary system	J08-A02
optical glass fibres	F01-C07E F01-D09B F04-G01 L01-F03G	antiozonant	A08-A04	direct contact	J08-A01
		heat	A08-A04A	indirect contact	
ring	F01-G01	heat, metal containing	A08-A02	Steam curing concrete	L02-D04
ringless	F01-G02	ionising radiation	A08-A03	Steam distillation, polymer- purification by	A10-G01+
sheet metal	M21-E03	light or U.V.	A08-A01+	Steam raising plant (nuclear)	K06-A
wet	A11-B15C F01-C08C	multifunctional		Steaming	
Spirella	B04-B02B3 B04-F08 C04-B02B3 C04-F08	Stabilisers for addition polymers	A08-A01A	coffee	D03-D01D
		condensation polymers	A08-A01B	tea	D03-D02D
Spiropyran, dye precursor	E26-B	cosmetics	D08-B11	Stearates of metal as lubricants/mould release agents	A08-M03+
Spleen treatment	B14-N15 C14-N15	detergents	D11-B12	Stearyl acrylate (co)polymers	A04-F06+ A01-D10B
Splicing of fibres	F01-H03B	earth	A12-A02	monomer	
Splints	A12-V03A D09-C04C	explosives	K04-G	Stearyl methacrylate (co)polymers	A04-F06+ A01-D10B
Splitting film to form fibres	A11-B02 F01-C05	fabrics	F03-C07	monomer	
Sponge iron production	M24-A03	food (chemical)	D03-H01Q	Steel alloy	M27-A04 M27-B04
Sponge, polymeric	A12-S+	photographic developers		treatment	
Spoons	A12-D03	and emulsions	G06-H03	Steel filler/reinforcing agent for polymers, including wires or cords	A08-R05
Sports		photographic images	G06-H11	Steel melt treatment	M24-C
areas	A12-F01A	polymeric foam, structural	A08-S07	alloying of ferrous melts	M24-C08
equipment	A12-F01+	polymers	A08-A+	apparatus	M24-C09
goods, foam use in	A12-S04D	polyolefins	A08-A01A1	decarburising	M24-C06
Spot welding, resistance	M23-D02A3	Stabilising after silver halide development (black and white photography)	G06-G13	deoxidising	M24-C02
Spray booths		Stabilising other colour development (photography)	G06-G13	dephosphorising,	
cleaning/maintenance	G02-A06A	Stain resistor for detergents	D11-B05	desulphurising	M24-C01
Spray detergent/cleaning	D11-D02C	Staining of wood	F05-B	inoculation, spheroidising	M24-C05
Spray drying	J08-G06	Stairs, staircases	A12-R02	killing, balancing	M24-C03
purification of polymers		Stamping of paper	F05-A05B	removing other impurities	M24-C04
by	A10-G01+	polymers	A11-C04C	using slags or fluxes	M24-C07
		sheet metal	M21-E02	Steel processing	M24-B02
		Stannic, stannous - see Tin		by converter process	M24-B02C
				by crucible process	M24-B02A
				by electro-process	M24-B02D
				by hearth process	M24-B02B



Steel production	M24-A	ring "A"	B01-B	containers	A12-P+
analysis	M24-A06		C01-B	control	J06-B08
apparatus	M24-A05	use	E01-U	devices (heat)	G04-B01
control	M24-A06	5 (10) or 1 (10) - Estrenes	B01-C11	phosphor for X-ray material	G06-A09
laboratory method for refining	M24-A06		C01-C11	of gases and liquids	J06-B
liquid steel production	M24-A03	5 (10) or 1(10) - Androstene	B01-C11	Storage of	
metallothermic process	M24-A04		C01-C11	gas	J06-B
scrap and slag treatment	M24-A07	5 (10) (or 1(10)) - Gonenes	B01-C11	glass	L01-J04
Stem cells	B04-F02B		C01-C11	hydrogen	E31-A02B
	C04-F02B	5 (10) (or 1(10)) - Pregnene	B01-C08	liquid	J06-B
			C01-C08	plastics/polymers	A11-C06
Stem cell therapy	B14-S21A	1 (or 2)-Androstene	B01-C10	Storage tank	B11-C06
	C14-S21A		C01-C10		C11-C06
		1 (or 2)-Estrenes	B01-C10	for oil or gas	H03-E
Stencils	A12-W07+		C01-C10	of plastics	A12-P05
printing	G05-A04	1 (or 2)-Gonenes	B01-C10	Stoves for heating blast, iron and steel	
Stent	B11-C04A1		C01-C10	production	
	C11-C04A1	1 (or 2)-Pregnene	B01-C07		M24-A05E
	D09-C01F		C01-C07	preheating, cooling or	
		3 (or 4)-Androstene	B01-C09	drying hot blast	M24-A05E1
Stentering of fabric	F03-A02+		C01-C09	Straight chain olefins	
polymer	A11-B02+	3 (or 4)-Estrenes	B01-C09	monomer	A01-D13
Stereochemistry	B11-C01D		C01-C09	polymers	A04-G+
	C11-C01D	3 (or 4)-Gonenes	B01-C09	polymers, polyethylene	
			C01-C09	(HDPE)	A04-G02+
Stereographic moulding	A11-B16	3 (or 4)-Pregnene (excluding progesterone and testosterone)	B01-C06	Straightening sheet metal	M21-E01
Stereolithographic moulding	A11-B16		C01-C06	Stranding of fibres	F01-H01
Stereospecific polymerisation catalyst excluding transition metal (compounds)	A02-A08	Steroids of unknown structure	B04-B02D1	Strapping (packaging use)	A12-P07
			B01-E	Straw	B04-A07D4
Sterilisation			B04-J02		B04-A09H
and hygiene, polymer use	A12-V03C1		C01-E		C04-A07D4
chemical method	D09-A01		C04-B02D1	extracts	C04-A09H
of alcoholic beverages	D05-F		C04-J02		B04-A10J
of animals	B12-K03	production	E01		C04-A10J
	B14-P01	use	E01-P	Strengthening additives for concrete manufacture	L02-D14B
	C12-K03		E01-U	Streptococcus	B04-F10B4
	C14-P01	Sticking plaster	A12-V03A		C04-F10B4
of female animals	B14-P01B		B12-M02D	Streptomyces	B04-B02B2
	C14-P01B		C12-M02D		B04-F10B5
of insects	B14-B07		D09-C04B		C04-B02B2
	C12-K03	Stillbene		Streptomycin	C04-F10B5
	C14-B07	fluorescent brightener	E24-A01		B02-S
of male animals	B14-P01A	photographic brightener	G06-H09B		C02-S
	C14-P01A			Stress relieving, ferrous metal	M24-D02B
of paper making equipment	F05-A04E	Stimulated emission of radiation	G06-A09	Stretch fabrics	F02-G04+
of plastics	A11-C		L03-F	Stretch films for packaging (polymer use)	A12-P+
of water	D04-A02	Stimulation, well	A12-W10B	Stretch forming sheet metal	M21-E03
or air	D09-B	Stirrer	D03-K07	Stretch-blow moulding of polymers	A11-B10
physical method	D09-A02	Stirring of food	D03-K07	Stretchers (polymer use)	A12-V03
by irradiation	D09-A02A	Stirring of polymers	A11-A03	Stretching following extrusion of polymers	A11-B07D
Sterilisation of food	D03-H02	Stitch-bonding for non-woven fabrics	F02-C02A	Stretching of artificial fibre	A11-B02B
Sterilising compositions, medical	A12-V03C1	Stockings	A12-C03		F01-C06
Steroid biosynthesis	D05-C04		F04-C02	fabrics	F03-A02
Steroid of known structure	B01	Stomach disease treatment	B14-E10B	fibre	A11-B02B
	C01		C14-E10B	film	A11-B02A
	E01	Stones		polymers	A11-B02+
with aromatic ring "A"	B01-A	artificial	A12-R01	Strips, dental	D08-B08D
	C01-A	polymer coatings on	A12-B08	whitening	D08-B14D
with one double bond in ring "A"	B01-C	Stoppers, for containers	A12-P03	Strip mills (metal rolling)	M21-A03A
	C01-C	metal casting	M22-G03G1		
production	E01-P	Storage	E11-S		
with saturated ring "A"	B01-D	batteries	A12-E06+		
	C01-D				
with two double bonds in					

Strippable coatings polymeric	G02-A05 A12-B+	Subbing agent for polymers photographic	A08-M01+ G06-A01	with unknown structure (mono or disuccharide)	B04-D01 C04-D01
Stripping agent or layer for photography	G06-A05	Sublimation dyeing/printing	J01-A04 F03-F27	Suitcases	A12-T
Stripping, purification of polymer by	A10-G01+	Submerged arc welding	M23-D01A3	Sulfamic acid (or derivative) inorganic	B05-C03 C05-C03 E31-H03
Stroke treatment	B14-N16 C14-N16	Substitution process	B11-C01 C11-C01 E11-H	organic	B10-A08 C10-A08 E10-A08
Strontium catalysts	N01-B	Substrates electrophotographic	A12-L05D G06-G05B	Sulfate, aliphatic Sulfate, aromatic	E10-A08 E10-A09A2 E10-A09A3
Strontium compounds inorganic	B05-A01B C05-A01B E34-D03 E34-D03C E05-B01	for printed circuits, ceramic	L03-H04E5	Sulfate ester detergents	D11-A01F
organic	E05-B01	for printed circuits, plastic	A12-E07A L03-H04E1	Sulfate, cellulose	A03-A03 B04-C02A3 C04-C02A3 D06-H
Stuffer-box crimping	F01-H04A	manufacture for semiconductor devices	L04-C22	Sulfate, inorganic - see also specific cations	B05-C05 C05-C05 E31-F
Stuffings (non-woven)	F02-C01	Succinic acid	E10-C02D E10-C02D2	Sulfate, organic	B10-A09A C10-A09A E10-A09A
Styrenated polyesters	A05-D02+ A08-C07A	Succinic condensant	A01-E12	Sulfated polymer	A10-E24
Styrene	E10-J02B	Sucker growth inhibitor	B12-P09 C12-P09 C14-U01E	Sulfation, sulfuration of polymer	A10-E24
(co)polymers with acrylonitrile	A04-C04B A04-D03+	Suede leather, artificial	A12-B02A F04-B01+	Sulfenamide, organic	B10-A08 C10-A08 E10-A08
(co)polymers with acrylonitrile + butadiene	A04-C03	Sugar (sucrose)	D06 E07-A02H	Sulfenic acid (or derivative) organic	B10-A09C C10-A09C E10-A09C
(co)polymers with butadiene	A04-B03+	cutting	D06-E	Sulfide ceramics	L02-H03
(co)polymers with divinylbenzene	A04-B10 A04-C04	extraction from molasses	D06-F	Sulfides of mercury, cadmium and zinc	L04-A03A
(co)polymers with ethylene-butylene (block terpolymer)	A04-C04 A04-G04 A04-G06+	invert	D06-G	Sulfides, inorganic (general) production use	B05-C05 C05-C05 E31-F02 E31-F04
(co)polymers with isoprene	A04-B07	juice treatment	D06-B	Sulfenamides, organic	B10-A08 C10-A08 E10-A08
(co)polymers with others crosslinking agent for addition (co)polymers crosslinking agent for other (co)polymers homopolymer monomer	A04-C04 A08-C07A A08-D A04-C02+ A01-D03	packing	D06-E	Sulfinic acid (or derivative) organic	B10-A09C C10-A09C E10-A09C
Styrene polymer - see also Polystyrene adhesive	A04-C+ A12-A+ G03-B02D3	production of crystals	D06-C	Sulfite ceramics	L02-H03
paint, varnish lacquer	A04-C+ A12-B+ G02-A02D4	raw, material processing	D06-A	Sulfides of mercury, cadmium and zinc	L04-A03A
Styrene substituted by alpha methyl monomer polymer	E10-J02B A01-D03 A04-C05	raw, processing of	D06-C	Sulfides, inorganic (general) production use	B05-C05 C05-C05 E31-F02 E31-F04
Styrene sulphononic acid (co)polymers monomer	A04-C A01-D02	sorting	D06-E	Sulfidates of mercury, cadmium and zinc	L04-A03A
Styrenes optionally substituted	A04-C+	yield in cane increasing	B12-P04 C12-P04 C14-U01C	Sulfides, inorganic (general) production use	B05-C05 C05-C05 E31-F02 E31-F04
Styrenes, halo-substituted (co)polymer	A04-C	Sugars biosynthesis of measurement of other than sucrose other sugar derivative	D05-C08 J04-B01B1 D06-G B10-A07E C10-A07E E10-A07E B10-A07A C10-A07A E10-A07A B10-A07C C10-A07C E10-A07C B10-A07B C10-A07B E10-A07B D05-C17	Sulfidates, inorganic (general) production use	B05-C05 C05-C05 E31-F02 E31-F04
Styropor®	A12-S01+	unmodified sugar	B10-A07A C10-A07A E10-A07A B10-A07C C10-A07C E10-A07C B10-A07B C10-A07B E10-A07B D05-C17	Sulfinate, organic	B10-A08 C10-A08 E10-A08
Styryl dye	E25-B	Sugar acid	B10-A07A C10-A07A E10-A07A B10-A07C C10-A07C E10-A07C B10-A07B C10-A07B E10-A07B D05-C17	Sulfinic acid (or derivative) organic	B10-A09C C10-A09C E10-A09C
Subbed photographic film	A12-L01 G06-A01	Sugar alcohol	B10-A07A C10-A07A E10-A07A B10-A07C C10-A07C E10-A07C B10-A07B C10-A07B E10-A07B D05-C17	Sulfite, inorganic - see also specific cations	B05-C05 C05-C05 E31-F
		production by fermentation	D05-C17	Sulfite, organic	B10-A09A C10-A09A E10-A09A
		Sugar amine	B10-A07D C10-A07D E10-A07D	Sulfohalogenated polymer	A10-E12B
		with known structure, heterocyclic	B07-A02 C07-A02 E07-A02	Sulfoisophthalic acid based saturated polyester	A05-E05
		with known structure, non-heterocyclic	B10-A07 C10-A07 E10-A07	Sulfoisophthalic condensant	A01-E11
				Sulfonamide, organic	B10-A08 C10-A08 E10-A08
				Sulfonated polymer	A10-E12A

Sulfonated styrene- divinyl benzene copolymer	A10-E12A	Sulfur dioxide	B05-C05 C05-C05 E31-F	Support, catalyst polymeric	A02-D A12-W11K
Sulfonation of styrene- divinyl benzene copolymer	A04-B10 A04-C04 A10-E12A	(co)polymers monomer	A04-A A01-A	Supports for coatings forming the support on otherwise unsuitable material	L03-B05L3 L03-B05L L03-B05L2 A12-E08A+ L03-B05L1
Sulfonation process	B11-C01 C11-C01 E11-H	Sulfur dioxide removal from water	D04-B07D	magnetic recording metal polymeric	A12-E08A+ A02-D
by addition reaction for detergent preparation of polymers	E11-F09 D11-D05 A10-E12A	Sulfur dyes for dyeing/printing fibres	E25-E F03-F24	polymerisation catalysts	A12-L01 G06-B+
Sulfone	B10-A10 C10-A10 E10-A10	Sulfur oxide production removal use	B05-C05 C05-C05 E31-F03 H06-C03C E31-F04	Supports, photographic	A12-L01 G06-B+
Sulfonic acid (or derivative)	B10-A09B C10-A09B E10-A09B E10-A09B1	Sulfur oxyacid (or inorganic salt) production use	B05-C05 C05-C05 E31-F03 E31-F05	glass; other than specified below metal paper polymeric	G06-B G06-B03 G06-B02 G06-B01
anhydride detergents ester	D11-A01B E10-A09B1	Sulfur recovery from waste material	E31-F01	Suppository (for polymer use in, see also A12-V01)	B12-M08 C12-M08
Sulfonium compounds	B10-A01 C10-A01	Sulfur removal from catalysts	E31-F01	Surf boards	A12-F01
as disinfectant other than for food or air organic	D09-A01B E10-A01	Sulphur removal from waste material (catalytic)	E31-F01D	Surface active agents - see Surfactants	
Sulfonyl halide inorganic	B05-C05 C05-C05 E31-F	Sulfur removal from waste material (non-catalytic)	E31-F01E	Surface colouring agents of polymers	A08-E+ A11-A01+
organic	E10-A09B1	Sulfuric acid (or inorganic salt) catalyst ester	B05-C05 C05-C05 A02-A04 B10-A09A C10-A09A E10-A09A	Surface hardening, ferrous metal	M24-D02A
Sulfonylurea	B10-A08 C10-A08 E10-A08	production use	E31-F03 E31-F05	Surface modification/ modified polymer	A10-E+
Sulfoxide	B10-A10 C10-A10 E10-A10	Sulfurous acid (or inorganic salt)	B05-C05 C05-C05 E31-F	Surface treated polymers	A11-C04+
Sulfur (elemental)	B05-C06 C05-C06	Sulfurous acid ester	B10-A09A C10-A09A E10-A09A	Surface treatment of concrete glass (coating) glass (colouring) glass (mechanical) glass fibres metal by multistage chemical process polymers polymers, chemical polymers, coating with non-polymeric material Polymers, embossing polymers, material polymers, metallising polymers, painting polymers, printing polymers, treatment or irradiation	L02-D14 L01-G04 L01-G05 L01-G06 L01-F03A M14-H A11-C04+ A11-C04D A11-C04B2 A11-C04C A11-C04B2 A11-C04B1 A11-C04A A11-C04A A11-C04E
production, from waste material	E31-F01	Sultam, dye precursor	E26-B	Surfaces, pretreatment, for application of adhesives (see also A8-M01+ for adhesion improvers)	G03-B03
production, other use	E31-F02 E31-F04	Sultone, dye precursor	E26-B	Surfactants	A08-S+ B12-M09 C12-M09 D11 D08-B13 A12-S05S F03-C05 A08-S+
Sulfur acid amide	B10-A08 C10-A08 E10-A08	Sun screen agent	B12-L08 B14-R05 C12-L08 C14-R05 D09-E01		
Sulfur catalysts	N04-C	Sunblinds	A12-R02A		
Sulfur compound activator	A08-C02 A08-D	Sunflower oil	B04-B01C1 C04-B01C1 D10-A		
Sulfur concrete	L02-D07	Sunglasses	A12-C02		
Sulfur containing acid, vinyl ester of (co)polymers monomer	A04-A A01-A	Sunscreens	D09-E01		
Sulfur containing inorganic compound removal from water	D04-B07D	Super absorbents polymer application in	A12-W13		
Sulfur containing organic detergent additive	D11-B17	Superconductive devices polymer application in	L04-E09 A12-E16		
Sulfur containing vulcanising agent for addition polymers for other polymer	A08-C04 A08-D	Superconductor nanomaterials	L03-A01C L03-A01C4		

polymer compositions use as A12-W12+	Swimming suits	F04-C01 F04-C03	needles	B11-C02B C11-C02B A12-V03D
polymer compositions use as cleaning compositions (excluding W12A)	Switches, electrical	A12-E07+ L03-B04A	polymer use	A12-V03D
polymer compositions use as detergents for fibre/fabric A12-W12A	Switches- semiconductor polymer use in	L04-E08 A12-E07C	Syrup processing	D06-C
polymer compositions use as, others removal from water	Sydnone	B07-E04 C07-E04 E07-E04	Syrups of polymers systems	A12-S A12-W07F1
Surfactants (general)	Sylvine (KC1)	B05-A01A C05-A01A E33-B		
Surfactants excluding cleaning/ detergent compositions	Sympathetic blocker	B12-E06 B14-J02D C12-E06 C14-J02D		
anti-foaming agent				
anti-static agent				
emulsifier				
for fabrics	Sympathetic depressants	B14-J02D C14-J02D		
protective colloid				
solvent	Sympathetic stimulant	B12-E07 B14-J02C C12-E07 C14-J02C		
swelling agent				
wetting agent				
Surge arresters	Sympatholytic	B12-E06 B14-J02D C12-E06 C14-J02D		
Surgical				
gloves	Sympathomimetic	B12-E07 B14-J02C C12-E07 C14-J02C		
gowns/masks				
gowns/masks, fabric in product, textile use in	Synergist	B12-C09 B14-S09 C12-C09 C14-S09		
sponge				
tape and dressings	Syntactic foams	A12-W12		
Surlyn ®	Synthetase	B04-L08 C04-L08 B14-L01A6 C14-L01A6 B14-D10 C14-D10		
Suspended particles, separation from liquids	agonists			
Suspenders	inhibitors			
Suspending agent	Synthetases - see Ligases			
for polymer	Synthesis	H06-A05		
Suspension	Synthetic growth medium	C14-T01A		
Suspension formation (excluding by polymerisation)	Synthetic food colorant	D03-H01E2		
involving condensation	Synthetic leather	A12-B02A F04-B1+		
involving grafting by addition	Synthetic pulp production	F01-J02 F01-C07D		
Sustained release	Syphilis treatment	B12-A05 B14-A01A C12-A05 C14-A01A		
Sutures	Syringe components	B11-C02C C11-C02C		
fibre use in	Syringe disposal apparatus	B11-C02D C11-C02D		
Swabs	Syringes	B11-C02 C11-C02 D08-A04 B11-C02A C11-C02A		
Sweetening (petroleum refining)	dental			
Sweetening agent	hypodermic			
Swelling agent for polymers				
Swimming pools				

T						
			magnetic	A12-E08A1 L03-B05A	Teflon FEP®	A04-E09 A04-E10D
			packaging (strapping)	A12-P	Teflon TFE®	A04-E08+
			teeth cleaning	D08-B08D	Television	
			teeth whitening	D08-B14D	cabinets	A12-D01
T(a)eniocide	B12-B02 B14-B03C C12-B02 C14-B03C		Tapestries	F02-E03	tubes	A12-E11A
T(a)enifuge	B12-B02 B14-B03C C12-B02 C14-B03C		Tapeworm treatment	B14-B03C C14-B03C	Telluride ceramic	L02-H05
Table linen	F04-D02		Tar in polymeric blend	A07-A01A	Tellurium (element)	B05-B02C C05-B02C E31-G
Tables	A12-D01		Tar paint	A03-C03 A12-B01D G02-A02A	Tellurium catalysts	N04-A
Tablets	A12-V01 C12-M11 E12-A09A D11-D02A B12-M11J B12-M11 B12-M11B with greater than one layer multi-layer		Tar removal from water	D04-B03	Tellurium compounds	
			Tar sands production and treatment	H01-D11	inorganic	B05-B02C C05-B02C E31-G
			Tar-bonded refractory	L02-E07	organic	B05-B01D C05-B01D E05-K
			Tarpaulins	F04-B	Telogens (for telomerisation)	A02-B
			Tars	A03-C03 B04-D02 C04-D02	Telomerisation	A10-B08
			Taste modifying enhancement masking	D03-H01B+ D03-H01B2 B12-M20 C12-M20 D03-H01B1	Temperature	
Tabletting machine	B11-C05 C11-C05		Tatami	A12-D A12-D01	applications (electrical)	A12-E10
Tableware	A12-D03 L01-G04E		Tautomerase	B04-L07 C04-L07	control devices	A09-D+
glass, coatings on			Taxanes	B06-A03A C06-A03A	measurement (electrical)	A12-E10
Tachykinins	B04-J14 C04-J14		TDI condensant	A01-E02	sensitive compositions	G04-B09
Tackifier for polymers	A08-M05		TDI crosslinking agent for addition polymers for other polymers	A08-C09A A08-D04A	Temperature swing adsorption	J01-E03J
Tags, labels	A12-P		Tea	D03-D D03-D02	Tendon, artificial	D09-C01D
Take off devices for knitting machines metal working other than rolling mills rolling mills	F02-B04 M21-N01 M21-A05		Tea bags	D03-D02A	Tenebrescent materials	G04-A01
Talc filler	A08-R06B B04-D02 C04-D02		Tea substitutes	D03-D03B	Tennis	A12-F01+
Tampons	A12-V03A D09-C02A B12-M17 C12-M17		Tear gas activity	B12-C05 C12-C05	Tensile strength	A09-A05
Tank cars and trucks (for oil products)	H03-C		Tear strips for containers, packaging	A12-P03	Tension devices	F01-H08
Tanks, drums (including linings)	A12-P05		Technetium catalysts	N03-E	Tentering of fabrics plastics	F03-A02 A11-B02+
Tanning compositions	D07-B		Technetium compounds	B05-A04 C05-A04 E35-Y E05-M E05-M03	Tents	A12-F01
Tantalum catalysts	N03-C N03-C03 A02-A06		inorganic		Terbium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P
for polymerisation			organic		catalysts	
Tantalum compounds	B05-A03B C05-A03B E35-N E05-N E05-N03A		Tedlar®	A04-E10A	inorganic	N03-A02B E34-E02B E05-P
inorganic			Teeth (dental)	B04-B04E C04-B04E	organic	E05-P
organic			cleaning preparation	A12-V04B D08-B08 A12-V02B D08-A03 D08-B08E D08-B14+ D08-B14A D08-B14B D08-B14C D08-B14D	Terephthalic (acid or derivatives) condensant	A01-E11
Tapered fibres	A12-S05A F01-E02		false		Terephthalic acid	B10-C02 C10-C02 E10-C02C E10-C02C1B E10-C02C2B
Tapes			floss		Terephthalic acid derived saturated polyesters	A05-E04+
adhesive	A12-A01		whitening general		Terephthalic acid polyester - see Polyester, saturated	
electrical insulation	A12-E03		toothpaste, tooth powder		Terminal posts for semiconductor devices	L04-C11D
fabric	F02-E02		mouthwash		Terpenes or terpenoids	B10-J02A C10-J02A
film use in	A12-S06+		gels		Terpene resins	A03-C
			strips		Terpene-phenol resin	A05-J
					Terylene®	A05-E04+
					Test equipment (petroleum refineries)	H05-K
					Test sampling devices	B11-C08C C11-C08C

Testing	B12-K04	Tetramethylene glycol condensant	A01-E14	polymer use in, polypropylene	F01-D05
batteries	C12-K04	Tetramethylthiuram disulphide accelerator for crosslinking agents for addition polymers for other polymers	A08-C03		A04-G03E
catalysts	L03-E07		A08-D	polymer use in, polysaccharides, general	F01-D05
	N06-D				A03-A01A
cement and ceramics	J04-E10	Tetraol condensants		polymer use in, polyurethane	F01-D10
concrete	L02-A08	alcohols	A01-E14		A05-G01E1
electrical equipment use in	L02-D08	phenols	A01-E13	polymer use in, polyvinyl chloride	F01-D07
	A12-E13				A04-E02E2
fabrics	F03-K02	Tetraoxane condensant (co)polymers	A05-H02+	polymer use in, PVA	F01-D08
fibres	F01-H	condensant	A01-E09		A10-E09B
for bacteria	D05-H04	Tetrazole	B07-D13	polymer use in, rayon, regenerated cellulose	F01-D08
for fungi	D05-H05		C07-D13		A03-A05A
for plant disorders	B12-K04D		E07-D13C		F01-D06
	C12-K04D	Tetron®	A05-E04+	polymer use in, silicones, siloxanes	A06-A00E1
		Textile dyes	A08-E03+		F01-D09
for substances other than for diseases	B12-K04E		E02	Textured fibres	A12-S05C
	C12-K04E	Textile finishes	F03-F16+		F01-E01A
fuel cells	L03-E07		A12-G+	Texturing of fibres	F01-E04
genetic	D05-H09		A12-S05+		A11-B02D
glass	L01-M	Textile mechanical processing	F03-C+	Thallium catalysts	F01-H04+
medical equipment use in method involving separation	A12-V03C2	crimping	A11-B02D	Thallium compounds	N03-G04
			F01-H04+	inorganic	B05-A01B
	B11-C08D	fibrillating	A11-B02+	organic	C05-A01B
	C11-C08D		F01-C05	Thebaine	E35-F
microbiological	D05-H09	heat setting	A11-B02C		E05-D
oil storage	H03-X02		F01-H05	Thebromine	B04-A04
paper	F05-A05A	melt blowing	A11-C05A1		C04-A04
polymers	A09-C	orienting	A11-B02B	Theophylline	B04-A06
refractories	L02-A08		F01-C06		C04-A06
semiconductors	L04-C18B	stretching	A11-C05B	Theragnostics	B12-Q01
viruses	D05-H06A	twisting, winding	F01-H01		C12-Q01
yarns	F01-H		F01-H03+	Therapy	K08-E02
Testosterone	B01-C05	Textile oils	H08-D06	Thermal	
	C01-C05	Textiles		cracking	H04-B01
Tests	B11-C07	carriers for microorganisms	D05-A03A	heads (printing)	G05-F02
	C11-C07	nuclear applications to polymer use in, (meth)acrylic ester (co)polymers	K09-F	nuclear reactor processes	L03-G10
	E11-Q		A04-F06E2	properties of polymers	K05-A02
			F01-D08	reforming	A09-A01A
Tetrabromobisphenol A condensant	A01-E13	polymer use in, (meth)acrylonitrile (co)polymers	A04-D03B	stabiliser	H04-C01
flame retardant	A08-F04B		F01-D02	stability of polymer	A08-A04+
				toughening of glass	A09-A01A
Tetracarboxylic condensants		polymer use in, (meth)acrylonitrile homopolymers	A04-D02B		L01-G03
aliphatic/alicyclic	A01-E12		F01-D02	Thermal conductivity agents	A08-M09C
aromatic	A01-E11	polymer use in, cellulose acetate	A03-A02A	carbon-based	A08-M09C1
Tetracycline	B02-T		F01-D01	Thermal (transfer systems (printing))	A12-W07F1
	C02-T	polymer use in, aramid	A05-F05	Thermal insulation	
			F01-D03B	ceramics/glass use in, boards	L02-D15B
Tetrafluoroethylene- trifluoro-nitrosoethylene copolymer	A04-A04	polymer use in, polyamide	A05-F01E1	ceramics/glass use in, ceramic oxides	L02-G06
	A04-E09		F01-D03	ceramics/glass use in, compositions	L02-D15D
		polymer use in, polyester	A05-E01B	ceramics/glass use in, flexible sheet	L02-D15C
Tetrafluoroethylene (TFE)	E10-H02B		F01-D04	ceramics/glass use in, panels	L02-D15B
	E10-H03A3	polymer use in, polyethylene	A04-G02E1	polymer use in, building and general	A12-R06
	E10-H04A3				
(co)polymers	A04-E09				
homopolymer	A04-E08+				
monomer	A01-D12				
Tetrahydrofuran (THF)	B07-A02				
	C07-A02				
	E07-A02				
(co)polymer based polyether	A05-H05				
condensant	A01-E08				
Tetrahydrophthalic condensant	A01-E12				
Tetrahydropyran	B07-A02				
	C07-A02				
	E07-A02				
Tetrahydropyridine	B07-D04D				
	C07-D04D				
	E07-D04D				

polymer use in, foam	A12-S04B	Thick film		Thiocyanate (organic)	B10-A14
polymer use in, foam, polyurethane	A12-S02F	capacitors and pastes	L03-B03C	C10-A14	E10-A14
polymer use in, pipes	A12-H02D1	capacitors and pastes, polymer use in	A12-E07B	E10-A14A	E10-A14B
polymer use in, vehicles	A12-T04B	circuits	L03-H04E4	A01-A	A01-E
Thermionic generator	L03-E05	circuits, polymer use in	A12-E07A	Thiocyanate inorganic	B05
Thermistors	L03-B01A2	resistors and pastes	L03-B01C	C05	E32-B
Thermo-optical device	L03-G10	resistors and pastes, polymer use in	A12-E07C	removal from water	D04-B07A
material	L03-G09D	Thick moulding compounds (TMC)	A12-S	Thioethers	B10-H01
Thermochromic dye (general)	E26	Thick-and-thin fibres	F01-E02	C10-H01	E10-H01
Thermocompression bonding of semiconductor	L04-C17B	Thickener for detergent compositions	D11-B24	Thioethers, cyclic condensant	A01-E08
Thermocouple	L03-E05A	food	D03-H01J	Thioketal	B10-A23
Thermoelectric element	L03-E	polymers	A08-M06	C10-A23	E10-A23
Thermoelectric generator	L03-E05	Thickness control of float glass	L01-D03C	E10-A23A	E10-A23B
Thermoelectric material	L03-G09T	Thienomycin	B02-P	Thioketone	B10-F01
Thermoforming	A11-B08+		B02-T	C10-F01	E10-F01
Thermography	A12-L05A		B06-D04	Thiokols (polymers)	A05-J05
	G06-F08+		C02-P	Thiol condensants	A01-A
			C02-T	A01-E	
Thermomagnetic layers in magnetic recording	L03-B05F		C06-D04	Thiol rubbers	A05-J05
other uses	L03-G09M	Thiepin	B07-B02	Thiophene	B07-B01
Thermometer	A12-L04		C07-B02	C07-B01	E07-B01
	A12-V03D	Thiet(an)e	E07-B02	polymer	A05-J12
			B07-B02	Thiophenol	B10-E01
Thermoplastic elastomer from poly(tetramethylene ether) glycol, diemthyl isophthalate and ethylene glycol	A05-E03	Thiin - see Thiopyran	C07-B02	C10-E01	E10-E01
	A05-E09	Thiirane	E07-B02	E10-E01P	E10-E01U
	A05-H05	containing condensants	A01-E07	Thiopyran	B07-B02
Thermoplastic reinforced composites	A12-S08E	Thio group formation in polymer	A10-E24	C07-B02	E07-B02
Thermorubin	B02-T	Thioacetel	B10-A23	Thiosulphonic acid or ester	B10-A09B
	C02-T		C10-A23	C10-A09B	E10-A09B1
Thermoset expanded, foams	A12-S03		E10-A23	Thiosulphuric(ous) acid ester	B10-A09A
Thermostability of polymer	A09-A01A		E10-A23A	C10-A09A	E10-A09A
Thermotropic (liquid crystal property of polymer)	A09-A02A	Thioalcohol	E10-A23B	E10-A09A	
Thiadiazole	B07-F03		B10-E03	Thiourea	B10-A13A
	C07-F03	Thioaldehyde	C10-E03	C10-A13A	E10-A13A
	E07-F03		E10-E03+	E10-A13A1	E10-A13A2
Thiamine	B03-B	Thiocarbonic acid ester	B10-D01	condensant	A01-E03
	B15-B01		C10-D01	Thiuram disulphide accelerator for crosslinking agents	A08-C03
	C03-B		E10-D01	for addition polymers	A08-D
	C15-B01		B10-A11A	for other polymers	A08-M06
Thiamorpholine	B07-F02		C10-A11A	Thixotropic additive	A08-M06
	C07-F02	Thiocarboxylic acid	E10-A11A	Thorium catalysts	N03-A03
	E07-F02		E10-A11A1	Thorium compounds	B05-A04
Thiaxanthene	B06-B02		E10-A11A2	inorganic	C05-A04
	C06-B02		B10-C01	organic	E34-E03
	E06-B02		C10-C01	E05-Q	
Thiazine	B07-F02		E10-C01	Thread guides	F01-H07
	C07-F02	amide	B10-D02	Thread rolling of metal	M21-H
	E07-F02		C10-D02	Thread traversing guides	F01-H03D2
Thiazole	B07-F01		E10-D02		
	C07-F01	ester	B10-G01		
	E07-F01		C10-G01		
photographic brightener	G06-H09D		E10-G01		

Threads - see also section F	A12-S05+		C04-J04	Titanium (production)	M25-G24
Throat disease	B14-N05B C14-N05B	Thyroid receptors	B04-K01X2 C04-K01X2	Titanium catalysts	N03-B
Throat preparation	B12-L04 C12-L04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F	element	N03-B01A
Throat preparations	B14-N05 C14-N05			hydroxide	N03-B01A
Thrombase	B04-H19 C04-H19	Thyrotropic hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F	oxide	N03-B01A
Thrombin	B04-B02C3 B04-B04D3 B04-H19 C04-B02C3 C04-B04D3 C04-H19	Thyrotropin (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F	for polymerisation	A02-A06+
Thrombinogen	B04-H19 C04-H19	Thyrotropin-releasing hormone	B04-J08	Titanium compounds	B05-A03B1 C05-A03B1 E35-K
Thrombokinas	B04-H19 C04-H19	Thyroxine	B10-B02E	inorganic	E05-L01
Thrombolytic	B14-F04 C14-F04	Tickicide	B12-B04 B14-B04A C12-B04 C14-B04A	organic	G01-A08
Thromboplastin	B04-H19 C04-H19	Tights	F04-C01 F04-C02	pigment/filler	
Thrombopoietin	B04-H07 C04-H07	Tiles, polymer use	A12-R+	Titanium compounds adhesion improvers	A08-M01C
Thrombosis treatment	B12-H02 B14-F04 C12-H02 C14-F04	Timing layer, photographic	G06-A08	Titanium halide polymerisation catalyst	A02-A06B
Thromboxane	B04-H03G C04-H03G	Tin		Titanium oxide	L02-G01E
agonist/mimetic	B14-L04 C14-L04	alloys	M26-B05	brightener	
antagonist/inhibitor	B14-L08 C14-L08	compounds as antiseptic, fungicidal or animal repellant	A08-M02	(inorganic pigment) production	A08-E02 L02-G12A
Through hole		electrodeposition	M11-A06	Titanium tetrachloride as Friedel-Crafts/Lewis acid catalyst	A02-A04
connections formation in semiconductor processing	L04-C13B	production	M25-G23	Titanium trichloride polymerisation catalyst	A02-A06B
formation in semiconductor processing	L04-C13A	tetrachloride polymerisation catalyst	A02-A04	Titurization of glass surfaces	L01-G05
Throw rugs	F02-B02	Tin catalysts	N03-G03	TMC	A12-S
Thrush treatment	B12-A02C B14-A04B C12-A02C C14-A04B	Tin compounds	B05-A02 C05-A02 E35-H	Toadstools	
Thulium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	inorganic		extracts	B04-A10A C04-A10A B04-A07F1 C04-A07F1 B04-A08D C04-A08D
catalysts		inorganic compound pigment	G01-A16	whole	
inorganic		organic	E05-F	Tobacco	B04-A07D B04-A08C2 C04-A07D C04-A08C2
organic		organic, with Sn-C bond	E05-F01	addiction treatment	B12-J05 B14-M01B C12-J05 C14-M01B
Thymidine	B04-B03A C04-B03A	organic, without Sn-C bond	E05-F02	artificial	D07-D
Thyristors	L04-E04	Other Sn compound	E05-F02B	fleck treatment	B12-L10 C12-L10
Thyrocalcitonin	B04-B02D3 B04-J04A C04-B02D3 C04-J04A	Tires	A12-T01+	preparation and processing	D07-C
Thyroid active agents	B12-G06 B14-N11 C12-G06 C14-N11	Tissue (cells)	B04-F01 C04-F01	substitutes	A12-W
Thyroid hormone	B04-B02D3 C04-B02D3	preservation, animal	D09-A03A	synthetic or reconstituted	D07-D
Thyroid hormone general	B04-J04	preservation, plant	D09-A03B	treatment, chemical features	D07-D
		Tissue culture	D05-H08	Tocopherol	B03-H B15-E00 C03-H C15-E00
		tissue culture tests	B11-C08E1 C11-C08E1	Toilet requisites	A12-V04+ D08-B
		Tissue engineering technologies	B11-C04G D09-C01E	Toluene condensants	A01-E
		C04G		Toluene diisocyanate	E10-A14 E10-A14A E10-A14B A01-E02
		Tissue paper, multiply	F05-A06A2	condensant	
		Titanate adhesion promoters or coupling agents	A08-M01C	Toluene diisocyanate crosslinking agent for addition polymers	A08-C09A
		Titanic acid catalysts	N03-B01A	for other polymers	A08-D04A
		Titanium		Toluene solvent	A08-S02
		alloys	M26-B06	Toluene sulphonic acid- formaldehyde resin	A05-J08



Toluene, vinyl (co)polymers monomer	A04-C05 A01-D03	bound to antigen or antibody, enzyme	B11-C07A4 C11-C07A4	Transformers	A12-E08B L03-B02D
Toluene-formaldehyde resin	A05-J08	bound to antigen or antibody, fluorescent	B11-C07A5 C11-C07A5	Transgenic animal	B04-P01+ C04-P01+ D05-H16A B04-A08+ C04-A08+ D05-H16B
Tombs, burial	A12-W	bound to antigen or antibody, radioactive	B11-C07A3 C11-C07A3	plant	
Toner transfer, electrophotographic	G06-G08B	radioactive (excluding antigen-antibody)	B11-C07B5 C11-C07B5	Translocase	D05-A01B7 D05-A02G
Toners, electrophotographic dry toning composition	A12-L05C2 G06-G05 G06-G06 G06-G05A	Tracing paper	A12-D05	Transomatic animal	D05-H16C
Toners, image (non-electrophotographic)	G06-H05	Tracks (e.g. for caterpillar, tank etc.)	A12-T01	Transomatic plant	D05-H16D
Toning, electrophotographic dry liquid	G06-G05 G06-G06	Tracks, (permanent way for) railways	A12-T	Transglutaminase	B04-H19 C04-H19
Tool handles	A12-H	Tractors	A12-T+	Transistors	A12-E07C L04-E01 L04-E01F L03-G05B6 L04-E01A L04-E01A1
Tools, mechanical	A12-H	Traffic sign paints	A12-T+ G02-A05F	CHEMFET for LCDs field effect junction field effect type metal oxide field effect MIST, MISFET metal oxide semiconductors metal oxide semiconductors, field effect photo	L04-E01C L04-E01B L04-E01B1 L04-E01G
Tooth fillings polymer use in	D08-A01 A12-V02B	Trains	A12-T+	Transition metal (or compound) catalyst excluding radical and Friedel-Crafts (oxy)halides oxides	A02-A06B A02-A06A
Toothbrush	A12-V04B	Tranquilliser	B12-C10 B14-J01B4 C12-C10 C14-J01B4	Transition metal (or compound) polymerisation catalyst activator (non-metallic)	A02-A10
Toothpaste	A12-V04B B12-M02A C12-M02A D08-B08A	Trans-1,4- polybutadiene	A04-B02+	Transition metal catalysts for polymerisation	N02 N03 A02-A06+
Toothpowder	B12-M02A C12-M02A D08-B08	Trans-1,4- polyisoprene	A04-B06	Transition metal compounds inorganic organic - 1st series organic - 2nd series organic - 3rd series	B05-A03 C05-A03 E35 E05-L E05-M E05-N
Tops for containers	A12-P03	Trans-2-butenoic acid (co)polymers monomer	A04-F05 A01-D08	Translocases	B04-L10
Tote boxes	A12-P06B	Transcription factors	B04-N12 C04-N12	Transmission (polymer use) belts fluids	A12-H01 A12-W02+
Toughening of glass	L01-G03	Transdermal	B12-M02F C12-M02F	Transparency of polymer	A09-A02
Toughness of polymers	A09-A05A	Transducers	A12-E12 L03-G10	Transplant rejection inhibitor	B14-G02C C14-G02C
Toupee	A12-V04 D08-B	Transesterification in polymer modification	A10-E07+	Transport applications	A12-T+
Towels	F04-D	Transfer compositions	A12-W07F1 A12-W07F1 G05-F01 F03-F27 A11-B11 L01-G01A L01-E07 A12-W07F1	Transport, reinforced polymer use in	A12-S08D3
Towels, sanitary	A12-V03A D09-C02 F04-E04	dyeing/printing moulding of glass of glass, hollow ware sheets		Transportation of polymer material	A11-C06
Town gas production	H04-E10	Transfer RNA	B04-E07 C04-E07	Transporting apparatus	B11-C06 C11-C06 F01-H03C D03-K08
Town waste fermentation	D05-A04A	Transfer tails	F01-H03D1	Transuranic catalysts	N03-A
Tows	A12-S05+	Transferases	B04-B02C4 B04-L04 C04-B02C4 C04-L04		
Toxic substance removal from soil	B12-N08 C12-J05 C12-N08 C14-T01	agonists	B14-L01A2 C14-L01A2		
Toys, models, educational devices foam use in	A12-F A12-S04D	enzyme process	D05-A01B2 D05-A02B B12-G01B2 B14-D06 C12-G01B2 C14-D06		
TPX ®	A04-G10	inhibitors	B12-G01B2 B14-D06 C12-G01B2 C14-D06		
Trace elements, physiological amelioration of potable water with	D04-A04	production by fermentation	D05-C03D		
Tracers bound to antigen or antibody, chemiluminescent	B11-C07A5 C11-C07A5	Transformed cells	D05-H14		
bound to antigen or antibody, colour	B11-C07A2 C11-C07A2	Transformer oil	L03-B02D		

Transuranic compounds	B05-A04 C05-A04 E35-R E05-Q	Trichomonicide	B14-A03D C14-A03D	Trousers	A12-C03 F04-C03
inorganic		Trichuris treatment	B12-B02 B14-B03A C12-B02 C14-B03A	Trucks	A12-T +
organic				Trunks (cases)	A12-T
Trauma				Trypanocide	B12-B07 B14-A03E C12-B07 C14-A03E
physical	B14-N17B C14-N17B	Trickle coolers, direct contact	J08-B01		
Travel goods	A12-T	Tricresyl phosphate		Trypsin	B04-B02C3 B04-L05C C04-B02C3 C04-L05C
Traversing guides for threads	F01-H03D2	flame retardant	A08-F03		
Tray, packaging	A12-P06B	plasticiser	A08-P05		
Tread, tyre design	A12-T01B	Triethyl aluminium catalyst	A02-A07+		
Trematode treatment	B12-B06 B14-B03 C12-B06 C14-B03	Trifluoro chloroethylene - ethylene copolymer	A04-E10D A04-G08	Tuberculostat	B12-A04 B14-A01B1 C12-A04 C14-A01B1
Triacetate, cellulose	A03-A02+ B04-C02A3 C04-C02A3 D06-H	Trifluorochloro- ethylene (CTFE) (co)polymers monomer	E10-H02B A04-E10D A01-D12	Tubes	(pre)heating of polymer bending and expanding etc. (metal) M21-B04 collapsible for packaging formation, glass L01-F02 formation, polymeric, by winding strips A11-B08+ forming processes A11-B08C mills (metal rolling) M21-A03 polymer A12-H02+ ribbed, seamed or finned metal M21-C used in fibre package formation F01-H03A with polymer coatings A12-B07C A12-H02D
Trialkyl orthophosphate	B05-B01P C05-B01P E05-G09C	Trifluoronitro- somethane (co)polymers monomer	A04-A04 A01-A05		
Triallyl cyanurate (co)polymers monomer	A04-A03 A01-B03	Trihydroxypropane condensant	A01-E14		
Triarylmethane dye	E25-D	Triketoimidazolidine polymer	A05-J02		
Triazine	B07-D13 C07-D13 E07-D13 E07-D13C A01-E01 E07-D13A E07-D13B	Trilobal fibres	A12-S05A F01-E02		
asymmetrical condensant		Trim strips for automobiles furniture	A12-T04 A12-D01		
symmetrical, production		Trimellitates plasticisers/ extenders	A08-P03		
symmetrical, use		Trimellitic condensants	A01-E11		
Triazole	B07-D13 C07-D13 E07-D13C	Trimethyl dihydroquinoline polymer	A04-D08	Tubing - see also Hoses forming (e.g. bending)	A12-H02+ A11-B08C
Tribromophenol flame retardant for polymer	A08-F04B	Trimethylol propane condensant	A01-E14	Tubs (packaging)	A12-P06B
Tributyl phosphate flame retardant for polymer	A08-F03	Trimethylol propane trimethylacrylate (co)polymers monomer	A04-A03 A01-B03	Tubular films production	A12-S06+ A11-B07A A12-S06A A12-S06B
plasticiser for polymers	A08-P05	Trimming polymer treatment sewing workpiece	A11-A05+ F02-F01B2	treatment	A12-S06B
Tributyl tin methacrylate (co)polymers monomer	A04-F04+ A01-A04 A01-D08	Trimmings	F02-E02	Tufted fabrics	A12-S05J
Tricarboxylic condensants aliphatic, alicyclic aromatic	A01-E12 A01-E11	Triolefinic compounds (co)polymers monomer	A04-A03 A01-B03	Tufted product, general	F02-D
Trichlorofluoro- methane volatile blowing agent	A08-B04A	Trioxane (co)polymers monomer	A05-H02+ A01-E09	Tufting	F02-D
Trichocephalasis treatment	B12-B02 B14-B03A C12-B02 C14-B03A	Trithiocarbonate (organic)	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2	Tumour diagnosis	B12-K04A1 C12-K04A1
Trichogenic	B12-L05 B14-R02 C12-L05 C14-R02	Tritium compounds	B05-A04 B05-A04B C05-A04 C05-A04B E05-R	Tumour inhibitor	B12-G07 B14-H01 C12-G07 C14-H01
Trichomatosis treatment	B12-A02 B14-A03D C12-A02 C14-A03D	organic		Tumour necrosis factor	B04-H08 C04-H08
		Tropane	B04-A01 C04-A01	Tumour producing	B12-G07 B14-H02 C12-G07 C14-H02
		Tropomyosin	B04-H20C3 C04-H20C3	Tungsten alloy production	M26-B13 M25-G28
				Tungsten catalysts	N03-C N03-C02
				for polymerisation	A02-A06+
				Tungsten compounds	B05-A03B C05-A03B E35-Q
				inorganic	



UV, polymerisation initiated by addition polymerisation	A10-B06		
addition polymerisation, grafting	A10-C03C		
other (condensation polymerisation)	A10-D+		
<b>V</b>			
V Antibiotics	B02-V01 C02-V01		
Vaccine			
activity general	B14-S11 C14-S11		
antibacterial activity	B14-S11B1 C14-S11B1		
anticancer activity	B14-S11C C14-S11C		
antiparasitic activity	B14-S11B3 C14-S11B3		
antiprotozoal activity	B14-S11B2 C14-S11B2		
antiviral activity	B14-S11A C14-S11A		
other antimicrobial activity	B14-S11B C14-S11B		
other therapeutic	B14-S11E C14-S11E		
Vaccine adjuvants	B14-S11F+ C14-S11F+		
Vaccine type	B14-S11D C14-S11D		
Live-attenuated (weakened)	B14-S11D2 C14-S11D2		
Synthetic/genetically engineered	B14-S11D3 C14-S11D3		
Whole-killed (inactive)	B14-S11D1 C14-S11D1		
Vaccines (excluding interferon)	B02-V02 C02-V02		
polymer use in production	A12-V01 D05-H07		
Vacuum			
assisted forming sheet/film casting	A11-B08A M22-G03E		
evaporation of metals to form coatings	M13-F		
forming	A11-B08A		
metallising polymers	A11-C04B1		
packing foodstuff	D03-H02F		
refining	M25-F01		
Vagh ®	A04-E03+ A04-F09		
Valinomycin	B02-V C02-V		
Valves			
artificial heart	A12-V02 D09-C01C		
discharge, structural parts for packaging	L03-C03 A12-P03		
mechanical	A12-H07		
Vanadium alloy	M26-B13		
Vanadium catalysts	N03-C N03-C01		
for polymerisation	A02-A06+		
Vanadium compounds	B05-A03B C05-A03B E35-N		
inorganic			
inorganic compound pigment	G01-A14		
organic	E05-L03 E05-L03A		
Vanadium oxychloride polymerisation catalyst	A02-A06B		
Vanadium production	M25-G26		
Vaporisation of liquefied or solidified gas	J06-B		
Vapour			
condensation	J01-A03		
deposited glass coatings	L01-H		
filling for discharge tubes or lamps	L03-C02D		
phase addition			
polymerisation	A10-B		
phase addition			
polymerisation, involving ordered copolymerisation	A10-C+		
phase etching			
semiconductors	L04-C07B		
separation of dispersed particles from	J01-G		
treatment	J01-E		
Vapour coating			
coating on metallic substrates	M13-F02		
coating on other substrates including silicon substrates	M13-F03		
post treatment of coatings	M13-F04		
pretreatment of substrates	M13-F01		
substrates	M13-F02		
Vapour condenser	J08-A		
auxiliary system	J08-A05		
direct contact	J08-A02		
indirect contact	J08-A01		
Vapour deposition			
apparatus for semiconductor processing	L04-D01		
for semiconductor layer growth	L04-C01A		
of glass (layers)	L01-F06		
Variable			
capacitor	L03-B03D		
denier fibres	F01-E02		
resistors	L03-B01A		
Variable denier yarns	F01-E08		
Varicose vein treatment	B12-J04 B14-E04 C12-J04 C14-E04		
Varistors	L03-B01A1		
Varnishes			
additives for inorganic film formers	G02-A03+		
derived	G02-A01+		
organic film formers (polymers) derived	A12-B+ G02-A02+ G02-B+		
Vascular endothelial growth factor	B04-H06M C04-H06M		

Vascular tumour treatment	B12-J04 B14-E04 C12-J04 C14-E04	seat fabrics shells upholstery	F04-E03C A12-T02 A12-T04B F04-E03C	optical	A12-L03C A12-W01A
Vaseline	B04-B01C3 C04-B01C3	Veneer	A12-A04+	Video magnetic tape	A12-E08A1
Vasoconstrictor	B12-F06 B14-F02C C12-F06 C14-F02C	Venereal disease treatment	B12-A05 B14-N07C C12-A05 C14-N07C	Vinegar	D05-G
Vasodepressor	B12-F07 B14-F02D C12-F07 C14-F02D	Venetian blinds	A12-R02A	Vinyl acetal polymers	A10-E02
Vasodilator	B12-F07 B14-F02D C12-F07 C14-F02D	Vermicide	B14-B03 C14-B03 B14-B03 C14-B03	Vinyl acetamide monomer (co)polymers monomer	A04-D A01-D07
Vasopressin	B04-B02D4 B04-J05B C04-B02D4 C04-J05B	annelides	B14-B03 C14-B03	Vinyl acetate (co)polymer (excluding ethylene)	A04-F09 A04-G07
Vasopressor	B12-F06 B14-F02C C12-F06 C14-F02C	cestodes	B14-B03 C14-B03	(co)polymer with ethylene homopolymer monomer	A04-F08 A01-D10A
Vat dyes for dyeing/printing fibres	F03-F23	distomicide	B14-B03D C14-B03D	polymer adhesives	A12-A05B3 G03-B02D2
Vaults, burial	A12-W	flukes	B14-B03 C14-B03	polymer coatings on metal polymer coatings/paints	A12-B04E A12-B01F G02-A02D3
Vectors	D05-H12 D05-H12E D05-H12E	leech	B14-B03 C14-B03	production use	E10-G02D2 E10-G02H2B
cloning DNA, cosmids, plasmids	B04-E08 C04-E08	nematocide	B14-B03A C14-B03A	Vinyl acetylene (co)polymers monomer	A04-A01 A01-B01
expression transfer viral	D05-H12E D05-H12E B04-F11 D05-H12E	platyhelminthes	B14-B03 C14-B03	Vinyl alcohol polymer - see Polyvinyl alcohol	
Vee-belts	A12-H01	tapeworm	B14-B03C C14-B03C	Vinyl aromatics (co)polymers monomer	A04-C+ A01-D02 A01-D03
Vegetable fibres dyeing/printing treatment treatment, chemical treatment, mechanical	F03-F03 F01-B02 F01-A02	threadworm	B14-B03A C14-B03A	Vinyl benzene homopolymer monomer	A04-C02+ A01-D03
Vegetable oils/waxes	B04-B01C1 C04-B01C1	trematodes	B14-B03 C14-B03	with acrylonitrile + butadiene	A04-C03
Vegetables, machine for cutting peeling washing	D03-J09 D03-J07 D03-J08	Versamids®	A05-F04	with butadiene with other monomers	A04-B03+ A04-C04+
Vegetables, preservation	D03-A04	Vertical magnetic recording	L03-B05G	Vinyl benzene sulphonic acid monomer	A01-D02
Vegetable products	D03-N	Vesicular photographic system	G06-C	Vinyl benzoate monomer	A01-D02
Vehicle safety belts	A12-T04E F04-E03B	Vessels for gas, not under pressure discharge from	J06-B02 J06-B05	Vinyl bromide (see also Vinyl halide)	E10-H02D E10-H03D2 E10-H04D2
Vehicles	A12-T+ A12-T04D A12-T05 A12-T04B	Vessels for gas, under pressure discharge from filling	J06-B01 J06-B04 J06-B03	Vinyl bromide/iodide (co)polymers homopolymer monomer	A04-E05 A04-E04 A01-D12
bumpers/fenders coatings crash pads electro (in)organic material applications fascia glass applications insulation (acoustic + thermal) paints parts, accessories	L03-H05 A12-T04B L01-L02 A12-T04B A12-T05 A12-T04+	Veterinary composition		Vinyl bromobenzenes (co)polymers monomer	A04-C A01-D02
		Veterinary medicine, polymers used in	A12-V+	Vinyl butyral, poly-	A10-E02
		(meth)acrylate (co)polymer	A04-F06E5	Vinyl butyrate (co)polymers monomer	A04-F10 A01-D10A
		cellulose ether	A03-A04A1	Vinyl caprolactams (co)polymers monomer	A04-D05 A01-D01
		polyamide	A05-F01E3	Vinyl carbazoles (co)polymers monomer	A04-D06 A01-D01
		polyethylene	A04-G02E3	Vinyl carbinol (co)polymers monomer	A04-F A01-D09
		polypropylene	A04-G03E1		
		PVA	A10-E09B2		
		silicone	A06-A00E3		
		Veterinary only	B12-L09 B14-S12 C12-L09 C14-S12		
		Vibration dampers	A12-H09		
		Vibration, ultrasonic (polymer modification)	A10-E10		
		Vibrio	B04-F10A9 C04-F10A9		
		Video discs magnetic	A12-W01A A12-E08A2 A12-W01A		

Vinyl carboxylate - see Vinyl ester		Vinyl fibres dyeing/printing production, chemical features in	F03-F11 F01-D08	Vinyl phosphonate (monoolefinic) (co)polymers monomer	A04-A A01 A01-A02
Vinyl carboxylic esters (monoolefinic) - see Vinyl ester		Vinyl floor covering	A12-R03 F04-B02	Vinyl phthalimides (monoolefinic) (co)polymers monomer	A04-D08 A01-D01
Vinyl chloride (co)polymers (co)polymers, preparation homopolymer monomer polymer adhesives polymer coatings polymer in polymeric blends polymer paint, varnish/lacquer production use	E10-H02J A04-E03+ A04-E03A A04-E02+ A01-D12 A12-A05B3 G03-B02D2 A04-E02E2 A12-B+ G02-A+ A07-A+	Vinyl fluoride (see also Vinyl halide) (co)polymers monomer	E10-H02B E10-H03A3 E10-H04A3 A04-E10A A01-D12	Vinyl polymer polyol polyurethane Vinyl propionate (co)polymers monomer	A05-G A04-F10 A01-D10A
Vinyl chlorobenzenes (co)polymers monomer	A04-C A01-D02	Vinyl fluorobenzenes (co)polymers monomer	A04-C A01-D02	Vinyl pyridines (monoolefinic) (co)polymers monomer	A04-D07 A01-D01
Vinyl cyanide (co)polymers homopolymer monomer	B10-A15 C10-A15 E10-A15 A04-D03+ A04-D02+ A01-D04	Vinyl halide (excluding Cl,F) (co)polymers homopolymer monomer	A04-E05 A04-E04 A01-D12	Vinyl pyrrolidones (monoolefinic) (co)polymers monomer	A04-D05A A01-D01
Vinyl cyclohexane (co)polymer	A04-G	Vinyl halide based adhesives/binders coatings paint varnish lacquer	A12-A05B3 G03-B02D2 A12-B1F G02-A02D2 A12-B1F G02-A02D2	Vinyl silane (monoolefinic) (co)polymers grafted polyethylene monomer	A04-A A04-A A04-G08 A01 A01-A03
Vinyl cyclohexene diepoxide	A05-A05	Vinyl halobenzenes (co)polymers monomer	A04-C A01-D02	Vinyl silicate (monoolefinic) (co)polymers monomer	A04-A A01 A01-A03
Vinyl ester resins	A10-E07B	Vinyl heterocyclics containing N, polymer	A04-D+	Vinyl stearate (co)polymers monomer	A04-F10 A01-D10A
Vinyl ester, carboxylic (monoolefinic) (co)polymers adhesives/binders coatings monomer	A04-F+ A12-A05B3 G03-B02D2 A12-B01F G02-A02D3 A01-D10A	Vinyl iodide (see also Vinyl halide)	E10-H02D E10-H03D2 E10-H04D2	Vinyl sulphonate (monoolefinic) (co)polymers monomer	A04-A A01 A01-A
Vinyl esters of (meth)acrylic acid Production Use	E10-G02D1 E10-G02H2A	Vinyl iodobenzenes (co)polymers monomer	A04-C A01-D02	Vinyl sulphone (monoolefinic) (co)polymers monomer	A04-A A01 A01-A
Vinyl esters of phosphorus acids (monoolefinic) (co)polymers monomer	A04-A A01 A01-A02	Vinyl isobutyl ether (co)polymers monomer	A04-F11 A01-D11	Vinyl thioethers (co)polymers monomer	A04-A A01
Vinyl esters of silicon acids (co)polymers monomer	A04-A A01-D A01-A03	Vinyl isocyanate (co)polymers monomer	A04-D A01-D07	Vinyl toluene (co)polymers monomer	A04-C05 A01-D03
Vinyl esters of sulphur acids (co)polymers monomer	A04-A A01 A01-A	Vinyl ketals, poly	A10-E02	Vinyl trichlorosilane adhesion improver	A08-M01D
Vinyl ethers (monoolefinic) (co)polymers monomer	A04-F11 A01-D11	Vinyl ketones (monoolefinic) (co)polymers monomer	A04-F03 A01-D05	Vinyl triethoxysilane adhesion improver	A08-M01D
Vinyl ferrocene (co)polymers monomer	A04-A A01 A01-A04	Vinyl lactam (co)polymers monomer	A04-D05 A01-D01	Vinylene carbonate (monoolefinic) (co)polymer	A04-F
		Vinyl methyl ether (co)polymers monomer	A04-F11 A01-D11	Vinylidene bromide	E10-H02D E10-H03D2 E10-H04D2
		Vinyl methyl ketone (co)polymers monomer	A04-F03 A01-D05	(co)polymers homopolymer monomer	A04-E07 A04-E06 A01-D12
		Vinyl naphthalenes (co)polymers monomer	A04-C A01-D03	Vinylidene chloride	E10-H02G E10-H03C3 E10-H04C3
		Vinyl phenol (monoolefinic) (co)polymers monomer	A04-C A01-D02	(co)polymers homopolymer monomer	A04-E07 A04-E06 A01-D12

Vinylidene cyanide (co)polymers monomer	E10-A15A A04-D A01-D04
Vinylidene fluoride  (co)polymers monomer	E10-H02B E10-H03A3 E10-H04A3 A04-E10B A01-D12
Vinylidene fluoride - chlorotrifluoro- ethylene (co)polymers	A04-E10B A04-E10D
Vinylidene halides excluding fluorides (monoolefinic) (co)polymers homopolymers monomer	A04-E07 A04-E06 A01-D12
Vinylidene iodide  (co)polymers homopolymer monomer	E10-H02D E10-H03D2 E10-H04D2 A04-E07 A04-E06 A01-D12
Vinylon ®	A10-E09+
Virucide	B12-A06 B14-A02 C12-A06 C14-A02
Viruses  newly discovered, testing of, isolation of, identification of and detection of recombinant	B04-B02B4 B04-F11 C04-B02B4 C04-F11  D05-H06A D05-H12F
Viscose fibres dyeing/printing	F03-F09
Viscosity depressants (modifiers) for polymers	A08-M06
Viscosity index (VI) improver (lubricant additive) polymer use in	H07-G06 A12-W02A
Vitamins	B15 C15 E03
A	B15-A00+ C15-A00+
B1	B15-B01+ C15-B01+
B12	B15-B12+ C15-B12+
B2	B15-B02+ C15-B02+
B6	B15-B06+ C15-B06+
C	B15-C00+ C15-C00+
D	B15-D00+ C15-D00+
E	B15-E00+ C15-E00+
K	B15-K00+ C15-K00+
P	B15-P00+ C15-P00+
Vitamins general/other	B15-Z C15-Z
Vitamins, biosynthesis	D05-C10

Vitamin preparation	D03-H01T2C
Viton ®	A04-E10B A04-E10D
Vitreous coating of metal post-treatment pre-treatment of surface	M13-J M13-J03 M13-J01
Vitreous enamelling	L01-H06
Volatile blowing agent foaming	A08-B04+ A11-B06+
Volatile solvent vapour recovery from gases	J01-E01
Vortex flow apparatus	J01-L02
Vulcanisation additive	A08-C+ A08-D+
Vulcanisation process, general for rubber of tyres	A11-C02+ A11-C02A A11-C02A1
Vulcanised polymer	A11-C02+
Vulcanising agent - see crosslinking	

## W

W/O dispersions of polymers	A07-B+
Waddings	F02-C01
Waffles	D01-B02F
Waist bands for garments	F04-C04
Wall panels, cementitious	L02-D04D
Wallpaper (polymer use)	A12-R07
Walls coating compositions for wall coverings (polymer use)	G02-A05F A12-R07
Warfare	A12-T03D+
Warheads	K03-A02
Warp dyeing/printing knitting	F03-F29 F02-B03A
Warping (textiles)	F02-A01
Wart treatment	B12-A07 B14-N17 C12-A07 C14-N17
Wash basins	A12-R02
Wash-wear treated fabrics non-resinous resinous	A12-S05R F03-C04 A12-G02 F03-C04
Washers	A12-H08
Washing machine for textiles	F03-J01
Washing rinsing, drying semiconductors	L04-C09
Waste disposal, other than by incineration disposal, by incineration encapsulation in glass gas treatment in semiconductor processing heat of furnace utilisation incinerator organic, fermentation paper, working up polymer recovery product cement radioactive, treatment recycling removal from cores storage in landfills treatment in polymer processing water treatment in semiconductor processing water recycling	J09-C01 J09-C02 L01-F L04-X02 J09-B03 J09-C D05-A04A J09-C01B F05-A02B A11-C03+ L02-C03 K07-B J09-C01A F01-H03E J10-A A11-C07 L04-X03 D04-A06
Waste gas treatment by biological methods by centrifugal methods by combustion by molecular sieve by metal-organic framework by wet scrubbing	J01-E02 J01-E02H3 J01-E02H2 J01-E02H4 J01-E02B1 J01-E02B2 J01-E02A J01-G06

catalytic removal of nitrogen oxides	J01-E02D	tracking stabiliser for polymer transport	A08-A A12-T	looms, shuttleless	F02-A04B
oxides, catalytic removal of nitrogen oxides, other	E31-H01	treatment general	A12-W11J D04-A D04-B	Webbing	A12-P07 F02-E02
removal of sulphur compounds	E31-F01	Water crosslinking agent for addition polymers	A08-C10	Webs (fabric), handling	F03-K01
using ozone	J01-E02H5	for other polymers	A08-D06	Weed control agents selective	B12-P06 C12-P06 C14-V02
with membranes or ion exchangers	J01-E02C	Water purification by active carbon treatment	D04-A01F D04-A01F2 D04-A01F3	total and general	B12-P05 C12-P05 C14-V01
with solid absorbent	J01-E02B	adsorption	D04-A01K D04-A01J	Weed control compositions use of polymers	A12-W04C
Waste water containment of	D04-A05	aeration/oxidation	D04-A01G	Weft	
Waste water treatment in	D04-A D04-B	Biological process chemical method (e.g. ion-exchange)	D04-A01A D04-A01M	gripper looms knitting	F02-A04B F02-B03B
metallurgy for non-ferrous metal extraction	M25-E01	distillation	D04-A01M D04-A01N	Weight increasing	B12-J01 B14-E11 C12-J01 C14-E11
paper making	F05-A02C	electrochemical process environmentally-friendly	E11-Q01B D04-A01F D04-A01F1	Weight reducing	B12-J02 B14-E12 C12-J02 C14-E12
semiconductor manufacture	L04-X02	water processing extraction	J01-F04X1 D04-A01L D04-A01C D04-A01C	Welding	A11-C01+ M23-E02
textile processes	F03-E	filtration	D04-A01P2A D04-A01P1 D04-A01P D04-A01K1	aluminothermic ancillary equipment	M23-H M23-J
Watches (polymer use)	A12-W	flotation	D04-A01K2 D04-A01P2 D04-A01B D04-A01D D04-A01G	backing strips electric	M23-D M23-D01
Water	B05-C08 C05-C08 E31-A	freezing	other chemical methods other methods	electric, arc electric, electron beam	M23-D04
absorbent material for dressings	D09-C06	freezing	oxidation with ozone oxidation/aeration with other	electric, electroslag welding	M23-D07
adding scale preventative or remover	D04-A03	irradiation	other physical methods precipitation	electric, induction heating	M23-D03
adding sequestering agent based lacquer or paint	D04-A03 A12-B01A G02-A+ A12-D01	other chemical methods other methods	reverse osmosis using active carbon	electric, laser beam	M23-D05
bed or mattress cooled reactor	K05-A02B	oxidation with ozone oxidation/aeration with other	Water soluble tablet	electric, plasma arc	M23-D01
flooding of oil wells	A12-W10B H01-D06 D04-C	other physical methods precipitation	B12-M11L C12-M11L	electric, resistance electric, spark erosion	M23-D06
gas impregnated in oil (W/O) polymer dispersion	A07-B+ F02-A04B	reverse osmosis using active carbon	Wave guide electric	electrodes explosive flame	M23-F M23-E02 M23-B
jet weaving penetration into concrete inhibiting	L02-D14Q A12-B	Water soluble tablet	Wave guides (electro)photographic production of	flame, burners, gas supply, torches	M23-B01 M23-J
polymers used in potable potable, physiological amelioration of	D04-A04 L04-X01	Wave guide electric	Waxes	flux holders fluxes	M23-F D11-D01B2
production of ultrapure proofing agent for polymer proofing concrete, masonry	A08-S08 G02-A05F	Wave guides (electro)photographic production of	as extenders or plasticiser fatty acid preparation from halogenated	flux removers hard surface in semiconductor manufacture	M23-E03 L04-C17C
proofing, textile finishes, non-resinous	A12-S05R F03-C02A	Waxes	petroleum products ski unhalogenated	inspection and control methods	M23-G
proofing, textile finishes, resinous	A12-G03 F03-C02A	as extenders or plasticiser fatty acid preparation from halogenated	Weapons	jigs and holders joint design	M23-H M23-J
purification purity measurement	D04-A01 D04-A01H	halogenated	Wear-resistant ceramic oxide	of contacts on electrical components	L03-A01B6
reducing additives for concrete manufacture	L02-D14D	petroleum products ski unhalogenated	Wearing apparel	of polymers pre- and post-treatment rods	A11-C01+ M23-G M23-F
repellent material for dressings	D09-C05	unhalogenated	Weavers' tools	ultrasonic	M23-E04
repellent, fibre/fabric treatment, non-resinous	A12-S05R F03-C02A	Weapons	Weaving	Wellhead equipment	H01-C06
repellent, fibre/fabric treatment, resinous	A12-G03 F03-C02A	Wear-resistant ceramic oxide	auxiliary apparatus looms looms, conventional	Wells (oil) blowout preventers	A12-W10+ H01-C06A H01-D06A
skiing soluble polyelectrolytes sterilisation	A12-F01+ A12-M+ D04-A02	Wearing apparel		brine flooding carbon dioxide flooding	H01-D06C H01-C01 A12-W10C
		Weavers' tools		casing cementing	H01-C02 H01-D09 H01-C
		Weaving		chemical production completion	



consolidation	A12-W10C	Wetting agent	A08-S05 B12-M09 C12-M09	Wood	B04-A07D3 B04-A09G C04-A07D3 C04-A09G
control equipment	H01-C09 H01-B03B H01-B03B3	Wheel (polymer use)		polymer coating on preservation/ treatment synthetic	A12-B09 F05-B A12-D01 A12-R01
coring	H01-B05B	fly grinding vehicle	A12-H A12-A03 A12-T04+		
corrosion inhibition	H01-E02	Whey and curds separation	D03-B02	Wood flour/powder filler/ reinforcing agent	A08-R07
depleted fields	H01-R	Whisker	E12-A12	Wood shavings	B04-A07D3 B04-A09G C04-A07D3 C04-A09G
directional/turbo drilling	H01-B05A	Whiskers fillers/reinforcing agents	A08-R09		
downhole equipment	H01-B03C	White carbon filler	A08-R06A	Wood, coatings on	A12-B09 F05-B
effluent treatment	H01-E	Whitening agents	A08-E+ E24-A D08-B01D1		
fishing tools	H01-B07	for skin		Wool	A03-C01 B04-B04E C04-B04E
flooding	A12-W10B	Whiteware	L02-G03	chemical treatment of dyeing/printing	F01-B01 F03-F02
fracturing	A12-W10B H01-C03	Whole animal, general and other	B04-P01 C04-P01	mechanical treatment of	F01-A01
lining	A12-W10C H01-C07	Wide films	A12-S06+	Working fluid for heat engine	G04-B01
killing	H01-H	Wigs	D08-B F04-G	Working of ferrous metal	M24-D01
logging	H01-A02	non-transplanted	A12-V04	Working sheet metal	M21-E
logging while drilling	H01-B03B1	transplanted	A12-V02 A12-V04	bending, corrugating, flanging, straightening	M21-E01
measuring	H01-B03B2	Winding		deep drawing, spinning, stretch forming	M21-E03
other	H01-X	fabric web	F03-K01	pressing	M21-E02
packers	H01-C01A	paper web	F05-A05		
perforating	H01-C05	plastics products excluding fibres/fabrics	A11-C06	Working up flue dust, sludge, slurry or waste water - non ferrous metals	M25-E01 F05-A02B
pipes	H01-P	polymeric fibres, yarns	A11-C05B	waste paper	
plugging	A12-W10C H01-C02	strips to form tube	A11-B08+	Wound dressings	A12-V03A D09-C04B F04-E04
production using bacteria	H01-D13	yarns	F01-H03+	Wound treatment	B12-A07 B14-N17B C12-A07 C14-N17B
scale inhibition	H01-E05	Window cleaning agent	D11-D01C		
servicing	H01-C10	Windows		Woven fabrics	A12-S05F F02-A03
steam flooding	H01-D06B	frames	A12-R02A	Wrapper, wrapping films	A12-P+ A12-P01A
stimulation	A12-W10B H01-C	glazing	A12-R04	Writing devices	A12-D05B G02-A04+
subsurface equipment	H01-B03C	seals	A12-R02A	Wrought iron production	M24-B01C
testing	H01-B08 H01-C11 H01-D12 H01-D08	Windscreens	A12-T04A		
thermal production		Wine	D05-E		
transmission of data, power	H01-B03D	Wipes, multiply	F05-A06A2		
tubing	H01-C01	Wire - see also Electrical	E12-A12		
valves	H01-B03B3	Wire insulation (electrical) compositions	A12-E02+ A12-E02A		
waterflooding	H01-D06	fabrication, treatment	A12-E02B		
water control compositions	H01-C12	Wire insulation removal	A11-C		
water control methods	H01-D14	Wire mills (metal rolling)	M21-A03A		
water treatment	H01-E04	Wire reinforced glass sheet manufacture	L01-D04		
Wet end of papermaking machine	F05-A04A	Wire working	M21-F		
Wet extraction of metal compounds	M25-B	Wire, coating composition for	A12-E02+ G02-A05A		
ion exchange	M25-B03	Wolfram - see Tungsten			
precipitation as an insoluble compound	M25-B01	Wollastonite filter/reinforcing agent	A08-R06B		
reduction with hydrogen or metal	M25-B02				
solvent extraction	M25-B04				
Wet laying of non-woven fabrics	F02-C02E				
Wet method for extracting non-ferrous metal compounds from ore	M25-B				
Wet scrubbing of waste gases	J01-E02A				
Wet spinning	A11-B15C F01-C08C				
Wet treatment of fabrics, apparatus (general)	F03-B F03-C01 F03-F01				

**X**

X-ray	
anodes	L03-C01
contrast media	B12-K07 C12-K07
crystallography	B11-C08G1 C11-C08G1
emission electrodes	L03-C02A
films	G06-D01
measurement	K08-A
medical equipment	A12-V03+
papers	G06-D01
photographic equipment	A12-L+
photographic materials	G06-D01
radiotherapy	K09-B02
screens (intensifying)	G06-A09 G06-D01
techniques	K08-E
techniques, using	
electro(in)organic material	L03-H04C
therapy or treatment	K08-E02
tubes(structural parts)	L03-C03
Xanflood®	A03-A+
Xanthan gum	A03-A+ B04-C02F C04-C02F
Xanthate, cellulose	A03-A05+ B04-C02A3 C04-C02A3
Xanthation of polymer	A10-E24
Xanthene	B06-A03 C06-A03 E06-A03
Xanthine	B04-A06 C04-A06
Xanthogenate (organic)	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2
Xanthomycin	B02-X C02-X
Xenon (element)	B05-B02C C05-B02C E31-J
Xenon compounds	B05-B02C C05-B02C
inorganic	E31-J
organic	E05-K
Xerography	A12-L05+
Xylene	E10-J02B
condensant	A01-E
solvent for polymers	A08-S02
Xylene diamine	E10-B01A
condensant	A01-E05
Xylene- formaldehyde resin	A05-J08
Xylenol	
condensant	A01-E13
Xylenol- formaldehyde resin	A05-C03+

## Xylenols

Xylok resins  
Xylylene glycol  
condensant

E10-E02B  
E10-E02B1  
E10-E02E  
E10-E02E1  
A05-J  
E10-E04J1  
A01-E14

**Y**

Yarn cleaners	F01-H09
Yarn processes	A11-C05+ F01-F
blending	F01-F01
cabling	F01-H01
carding, combing	F01-F01
crimping, curling of fibres	A11-B02D F01-H04
drafting	F01-F02
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finishing	F01-H06+
heat setting	A11-B02C F01-H05
increasing adhesion to	
bulk materials	F01-H06B
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open-end spinning	F01-G05
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halide			
inorganic (other than halide, hydroxide, oxide, sulfate)			
organic			
organic, excluding pigments/fillers			
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