

Derwent World Patents Index

CPI Manual Codes

Edition 29



DERWENT WORLD PATENTS INDEX (DWPI)

CPI MANUAL CODES

Edition 29

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Contents

INTRODUCTION.....	2
A: POLYMERS; PLASTICS.....	7
B: PHARMACEUTICALS	54
C: AGRICULTURAL CHEMICALS	122
D: FOOD, FERMENTATION, DISINFECTANTS, DETERGENTS	192
E: GENERAL CHEMICALS	217
F: TEXTILES, PAPER, CELLULOSE.....	257
G: PRINTING, COATING, PHOTOGRAPHIC.....	269
H: PETROLEUM.....	279
J: CHEMICAL ENGINEERING	291
K: NUCLEONICS, EXPLOSIVES, PROTECTION	303
L: GLASS, CERAMICS, ELECTRO(IN)ORGANICS.....	310
M: METALLURGY.....	336
N: CATALYSTS.....	353
APPENDIX 1 – NANOTECHNOLOGY	362
APPENDIX 2 - GREEN TECHNOLOGY	365
APPENDIX 3 – GENETIC ENGINEERING.....	370
CPI INDEX.....	385

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 subdivisions 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 alphanumerics 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 online in the Derwent World Patents Index on each of the host systems – ProQuest Dialog™, STN® and Questel.

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 for use in-house, supplied on DVD or via FTP and accessed via Derpict software. Also now available via the DAJ Web platform.

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, then 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 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, 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.

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

A01-A05	Nitroso group containing compounds e.g. trifluoro-nitrosomethane
A01-A	Others e.g. sulphur dioxide
A01-B	COMPOUNDS CONTAINING POLYMERISABLE C-C BONDS Excluding A01-C.; A01-D.: Including their production, handling, storage and purification.
A01-B00B	General C-C bond Indexed where the polymer former would require three or more codes from the A01-B+ hierarchy. 1994
A01-B01	Compounds containing both C-C double and C-C triple bonds e.g. vinyl acetylene, dimethyl vinyl ethynyl carbinol
A01-B02	Compounds containing C-C triple bond(s) only e.g. acetylene, propargyl alcohol
A01-B03	Compounds containing more than two C-C double bonds e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate
A01-B04	Petroleum chemicals, general e.g. products resulting from refinery cracking processes
A01-B	Others
A01-C	DIOLEFINIC MONOMERS Including their production, handling, storage and purification
A01-C00C	General diolefinic Indexed where the polymer former would require three or more codes from the A01-C+ hierarchy. 1994
A01-C01	Aromatic or (cyclo)aliphatic esters e.g. diallyl phthalates
A01-C02	Other aromatic compounds substituted by hetero atoms/groups Excluding A01-C01; e.g. bisphenol A diallylether
A01-C03	Other aromatic compounds optionally substituted by hydrocarbyl groups only e.g. divinylbenzene, divinyl toluene
A01-C04	(Cyclo)aliphatic compounds substituted by hetero atoms/groups Excluding A01-C01; e.g. chloroprene

A01-C05	(Cyclo)aliphatic hydrocarbons optionally substituted by hydrocarbyl groups only Excluding A01-B04; e.g. butadiene, isoprene, allene, dicyclopentadiene, piperylene.
A01-C06	Bismaleimides 1994
A01-C	Others
A01-D	MONOOLEFINIC MONOMERS Including their production, handling, storage and purification
A01-D00D	General monoolefinic Indexed where the polymer former would require three or more codes from the A01-D+ hierarchy. 1994
A01-D01	Heterocyclics containing nuclear N e.g. vinyl pyridine, vinyl carbazoles, maleimide
A01-D02	Aromatics substituted by hetero atoms/groups e.g. cinnamic acid, coumarone, vinyl benzene sulphonic acid, chloromethyl styrene, vinyl benzoate
A01-D03	Other aromatics optionally substituted by hydrocarbyl groups only e.g. styrene, alpha-methyl styrene, vinyl toluene, indene
A01-D04	(Cyclo)aliphatic nitriles e.g. acrylonitrile; cyanoacrylic acid (with A01-D08); cyanoacrylates (with A01- D10); vinylidene cyanide
A01-D05	(Cyclo)aliphatic aldehydes or ketones e.g. acrolein; diacetone acrylamide (with A01-D06)
A01-D06	(Cyclo)aliphatic amides e.g. acrylamide; diacetone acrylamide (with A01-D05)
A01-D07	N-contg. generics and others Excluding A01-D01, A01-D04, A01-D06; e.g. aminoalkyl acrylates (with A01-D10)
A01-D08	(Cyclo)aliphatic carboxylic acids, anhydrides or salts e.g. acrylic acid; maleic anhydride (with A01-E12); cyanoacrylic acid (with A01- D04); including acrylic anhydrides
A01-D09	(Cyclo)aliphatic alcohols e.g. allyl alcohol

A01-D10	(Cyclo)aliphatic carboxylic esters, general e.g. methyl methacrylate; vinyl acetate; dibutyl maleate (with A01-E12); aminoalkyl acrylates (with A01-D07); cyanoacrylates (with A01-D04)		A01-E05	Amines Excluding A01-E01; e.g. aniline, hexamethylene diamine, hexamethylene tetramine, piperidine, ethylene imine. Used for nitriles together with A01-E11 or A01-E12 as appropriate e.g. for adiponitrile search A01-E05 and A01-E12
A01-D10A	Vinyl esters e.g. vinyl acetate	2002	A01-E06	Other N-containing Excluding A01-E01 to A01-E05; e.g. oxazoli(di)nes, oxazines, benzimidazoles
A01-D10B	(Meth)acrylic esters e.g. methyl (meth)acrylate	2002	A01-E07	Mono-epoxy compounds e.g. epihalohydrin; ethylene oxide; monoglycidyl ether/ester; glycidol (with A01-E14); and thiiranes (episulphides)
A01-D11	(Cyclo)aliphatic ethers Excluding vinyl thioethers for which see A01-D; e.g. methyl vinyl ether		A01-E08	Cyclic (thio)ethers Excluding A01-E07; e.g. tetrahydrofuran (THF), oxetanes
A01-D12	(Cyclo)aliphatic halides Including acid halides; e.g. vinyl(idene) chloride; tetrafluoroethylene; fluoroacrylates (with A01-D10)		A01-E09	Formaldehyde Including trioxane, tetraoxane
A01-D13	(Cyclo)aliphatic hydrocarbons Excluding A01-B04; e.g. olefins such as ethylene, propylene, diisobutylene; norbornene		A01-E10	Aldehydes; ketones Excluding A01-E09; e.g. acetaldehyde, furfural, acetone, ketenes
A01-D	Others e.g. vinyl silanes (with A01-A03); vinyl phosphonic acid (with A01-A02); allyl sulphonic acid; vinyl ferrocene (with A01-A04); vinyl thioethers		A01-E11	Aromatic carboxylic acids, acid halides, anhydrides or esters e.g. phthalic (iso-, ortho- and tere-), trimellitic, pyromellitic
A01-E	CONDENSANTS Including their production, handling, storage and purification		A01-E12	(Cyclo)aliphatic carboxylic acids, acid halides, anhydrides or esters e.g. adipoyl chloride; sebacic acid; maleic anhydride (with A01-D08); bishaloformates
A01-E00E	General condensants Indexed where the polymer former would require three or more codes from the A01-E+ hierarchy.	1994	A01-E13	Phenols Including monohydric and polyhydric e.g. phenol, cresols, resorcinol, bisphenol A
A01-E01	Triazines e.g. melamine, guanamine		A01-E14	Alcohols Including dihydric and polyhydric e.g. ethylene glycol, pentaerythritol, cyclohexane dimethanol
A01-E02	Iso(thio)cyanates e.g. toluene diisocyanate, isophorone diisocyanate. For blocking agents see A02-C		A01-E	Others 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
A01-E03	Amides Including urea. For lactams see A01-E04		A01-F	INTERMEDIATES WHERE THE FINAL MONOMER IS UNKNOWN 1994
A01-E04	Lactams; amino acids e.g. caprolactam, aminocaproic acid, glutamic acid		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.
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 ₃ (etherate), AlCl ₃ , SnCl ₄ , TiCl ₄ (used without an activator), FeCl ₃ , H ₂ SO ₄ , HF, H ₃ PO ₄ .
A02-A05	Alfin e.g. mixture of allyl sodium, sodium isopropoxide and sodium chloride.

A02-A06

Transition metal (or compound)

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.

A02-A06A

. Oxides

e.g. CrO₃. Prior to 1970 see A02-A06.

1970

A02-A06B

. (Oxy)halides

With no other substitution(s). e.g. TiCl₃, VOCl₃. Prior to 1970 see A02-A06.

1970

A02-A06C

. Also containing organo Aluminium compounds

Excluding A02-A06A, A02-A06B; e.g. Ti(OiBu)₄ with Et₃Al. Prior to 1977 see A02-A06, A02-A06A and A02-A06B.

1977

A02-A06D

. Containing Cr, Hf, Mn, Mo, Nb, Ta, Ti, V, W or Zr only

Excluding A02-A06A to A02-A06C; e.g. Ti(OiBu)₄. Prior to 1977 see A02-A06, A02-A06A and A02-A06B.

1977

A02-A06E

. Metallocenes, general

Excludes A02-A06D. See also A02-A06C.

1994

Previous code(s): A02-A06+

A02-A06E1

.. Containing Ti, Zr or Hf

Excluding A02-A06D. See also A02-A06C.

1994

Previous code(s): A02-A06+

A02-A06E2

.. Containing other Transition metal

Excludes A02-A06D. See also A02-A06C.

1994

Previous code(s): A02-A06+

A02-A07

Non-transition metal (compounds)

Excluding A02-A01 to A02-A05; including Boron, Si.

A02-A07A	<ul style="list-style-type: none"> With transition metal (compound) Only when novelty. Prior to 1970 see A02-A07. 	1970
A02-A07B	<ul style="list-style-type: none"> Alkali(ne earth) metal containing organic compounds Including salts and complexes e.g. sodium lactamate, butyl lithium; excluding A02-A07A. Prior to 1977 see A02-A07. 	1977
A02-A07C	<ul style="list-style-type: none"> Organoaluminium compounds Excluding when in presence of a transition metal (compound). Prior to 1977 see A02-A07. 	1977
A02-A08	Stereospecific Excluding A02-A06+.	
A02-A09	Photocatalyst	
A02-A10	Non-metallic activators for transition metal type catalysts Only when novelty; e.g. amines, esters, P compounds. Prior to 1970 see A02-A06.	1970
A02-A11	Phosphorus containing Excluding A02-A01 to A02-A10. Prior to 1977 see A02-A.	1977
A02-A12	Biocatalyst eg enzymes	2002
A02-A	Others e.g. t-amines.	
A02-B	CHAIN TRANSFER AGENTS, REGULATORS, MODIFIERS, TELOGENS, CHAIN COUPLERS	
A02-B	Chain transfer agents, regulators, modifiers, telogens, chain couplers e.g. H ₂ in olefin polymerisation, SiCl ₄ , oxazolines.	
A02-C	POLYMERISATION INHIBITORS AND CHAIN STOPPERS, BLOCKING AGENTS FOR MONOMERS OR CONDENSANTS	
A02-C	Polymerisation inhibitors and chain stoppers, blocking agents for monomers or condensants e.g. hydroquinone, phenol; including catalyst deactivators.	
A02-D	OTHER CONTROL MATERIALS	
A02-D01	Buffers	
A02-D	Catalyst support and others e.g. SiO ₂ , Al ₂ O ₃ ; 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	<ul style="list-style-type: none"> Uses Prior to 1986 see A03-A. 	1986
A03-A01	General	
A03-A01A	<ul style="list-style-type: none"> Textiles, fibres Prior to 1970 see A03-A01. 	1970
A03-A02	Cellulose acetate	
A03-A02A	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Uses Prior to 1970 see A03-A04. 	1970
A03-A04A1	<ul style="list-style-type: none"> Medical, dental, cosmetic, veterinary; food Prior to 1986 see A03-A04A. 	1986
A03-A04B	<ul style="list-style-type: none"> Preparation of cellulose ethers 	2002
A03-A05	Cellulose derivatives and others Including regenerated cellulose e.g. rayon.	
A03-A05A	<ul style="list-style-type: none"> 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.	

A03-C02	Natural resins or gums, rosin (abietic acid), lignin
A03-C03	Bituminous plastics e.g. asphalt, lignite. Prior to 1977 see A03-C.
	1977
A03-C04	Petroleum resins 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.
	1977
A03-C	Others 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.

A04-A	MISCELLANEOUS (CO)POLYMERS Excluding A04-B: to A04-G:.
A04-A01	Monomers containing both double and triple C-C bonds e.g. vinyl acetylene.
A04-A02	Monomers containing triple C-C bonds only e.g. acetylene, propargyl alcohol.
A04-A03	Monomers containing more than two double C-C bonds e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate, polyallyl sucrose (for Carbopols® with A04-F04+).
A04-A04	Monomers containing a nitroso gp. e.g. trifluoronitrosomethane.
A04-A05	Carbon monoxide copolymers
	1994 <i>Previous code(s): A04-A</i>
A04-A	Others 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 ₂).
A04-B	POLYMERS FROM DIOLEFINIC MONOMERS
A04-B01	General Applied from the start of Plasdoc to the end of 1985 and was then discontinued.
	1966-1985

A04-B01A	<ul style="list-style-type: none"> Production Prior to 1970 see A04-B01. 	1970	A04-B12	Diallyl dimethylammonium chloride copolymers Copolymers formed from diallyl dimethylammonium chloride; e.g. Polydiallyl dimethylammonium chloride, PDADMAC	2021
A04-B01B	<ul style="list-style-type: none"> Compositions Prior to 1986 see A04-B01. 	1986	A04-B	Others e.g. dicyclo-pentadiene, piperylene.	
A04-B01C	<ul style="list-style-type: none"> Fabrication Prior to 1986 see A04-B01. 	1986	A04-C	POLYMERS FROM (SUBSTITUTED) AROMATIC MONOOLEFINIC MONOMERS	
A04-B01D	<ul style="list-style-type: none"> Treatment Prior to 1986 see A04-B01. 	1986	A04-C01	General	
A04-B01E	<ul style="list-style-type: none"> Uses Prior to 1986 see A04-B01. 	1986	A04-C01A	<ul style="list-style-type: none"> Production, compositions Prior to 1986 see A04-C01. 	1986
A04-B02	Butadiene homopolymer Including butadiene rubber.		A04-C02	Styrene homopolymer 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.	1966-1967
A04-B02A	<ul style="list-style-type: none"> Production Prior to 1970 see A04-B02. 	1970	A04-C02A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. 	pre-1970
A04-B03	Butadiene with styrene Including SBR.		A04-C02B	<ul style="list-style-type: none"> Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. 	pre-1970
A04-B03A	<ul style="list-style-type: none"> Production Prior to 1970 see A04-B03. 	1970	A04-C02B1	<ul style="list-style-type: none"> High impact polystyrene <i>Previous code(s): A04-C02+</i> 	1994
A04-B04	Butadiene with acrylonitrile Including NBR.		A04-C02C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. 	pre-1970
A04-B05	Butadiene with other monomers Excluding with styrene for which see A04-B03+; with acrylonitrile for which search A04-B04 and ABS for which search A04-C03.		A04-C02D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (Pre-CPI) to date. Prior to 80,000P see A04-C02. 	pre-1970
A04-B06	Isoprene homopolymer		A04-C02E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. 	pre-1970
A04-B07	Isoprene copolymers Excluding butyl rubber for which see A04-G05A.		A04-C03	Styrene with acrylonitrile and butadiene i.e. ABS.	
A04-B08	Chloroprene (co)polymers e.g. neoprene; including other haloprenes.				
A04-B09	Esters containing 2 non-conjugated C-C double bonds e.g. diallyl phthalates, allyl (meth)acrylate, ethylene glycol bis (allyl carbonate).				
A04-B10	Aromatic diolefinic Excluding A04-B09; e.g. divinyl benzene.				
A04-B11	Bismaleimide (co)polymers. <i>Previous code(s): A04-B</i>	1994			

A04-C04	Styrene with other monomers Excluding with butadiene for which see A04-B03+; for ABS see A04-C03.		A04-D04A2	.. Mining, chemical engineering Prior to 1986 see A04-D04A.	1986
A04-C04A	. Production, compositions Prior to 1970 see A04-C04.	1970	A04-D05	Vinyl lactams (co)polymers	
A04-C04B	. Styrene with acrylonitrile SAN. <i>Previous code(s): A04-C04+, A04-D04+</i>	1994	A04-D05A	. Vinyl pyrrolidones (co)polymers <i>Previous code(s): A04-D05</i>	1994
A04-C05	Alkyl substituted styrenes (co)polymers Hydrocarbon only e.g. vinyl toluene, alpha-methyl styrene. Prior to 1986 see A04-C.	1986	A04-D06	Vinyl carbazoles (co)polymers	
A04-C	Others e.g. vinyl naphthalene, indene, coumarone, styrene sulphonic acid, vinyl phenol, chloromethyl styrene, cinnamic acid.		A04-D07	Vinyl pyridines (co)polymers	
A04-D	POLYMERS FROM SUBSTITUTED MONOOLEFINIC MONOMERS CONTAINING N		A04-D08	Other vinyl heterocyclics (co)polymers; (substituted) maleimides Excluding A04-D05, A04-D06, A04-D07. Prior to 1977 see A04-D.	1977
A04-D01	General		A04-D09	Other amines (co)polymers 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.	1977
A04-D02	(Meth)acrylonitrile homopolymers		A04-D	Others e.g. vinylidene cyanide, cyanoacrylates.	
A04-D02A	. Production, compositions Prior to 1970 see A04-D02.	1970	A04-E	POLYMERS FROM NITROGEN-FREE, HALOGEN-SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS	
A04-D02B	. Fibres, textiles Prior to 1970 see A04-D02.	1970	A04-E01	General	
A04-D03	(Meth)acrylonitrile copolymers Excluding ABS for which see A04-C03 and acrylonitrile with butadiene for which see A04-B04.		A04-E02	Vinyl chloride homopolymer Applied during the pre-70 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued.	1966-1967
A04-D03A	. Production, compositions Prior to 1970 see A04-D03.	1970	A04-E02A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
A04-D03B	. Fibres, textiles Prior to 1970 see A04-D03.	1970	A04-E02B	. Compounding Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
A04-D04	(Meth)acrylamide (co)polymers (optionally substituted)		A04-E02C	. Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
A04-D04A	. Uses Prior to 1970 see A04-D04.	1970	A04-E02D	. Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
A04-D04A1	.. Adhesives and binders; coatings; (electro) photographic, laboratory, optical Prior to 1986 see A04-D04A.	1986			

A04-E02E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02. pre-1970 	
A04-E02E1	<ul style="list-style-type: none"> Chemical, electrical and mechanical engineering; building, civil engineering Prior to 1970 see A04-E02E. 1970 	
A04-E02E2	<ul style="list-style-type: none"> Adhesives and binders; coatings Prior to 1970 see A04-E02E. 1970 	
A04-E03	<p>Vinyl chloride copolymers Applied from the start of Plasdac to the end of 1985 and was then discontinued. 1966-1967</p>	
A04-E03A	<ul style="list-style-type: none"> Production Prior to 1970 see A04-E03. 1970 	
A04-E03B	<ul style="list-style-type: none"> Compositions Prior to 1986 see A04-E03. 1986 	
A04-E03C	<ul style="list-style-type: none"> Fabrication Prior to 1986 see A04-E03. 1986 	
A04-E03D	<ul style="list-style-type: none"> Treatment Prior to 1986 see A04-E03. 1986 	
A04-E03E	<ul style="list-style-type: none"> Uses Prior to 1986 see A04-E03. 1986 	
A04-E04	Vinyl bromide, iodide homopolymers	
A04-E05	Vinyl bromide, iodide copolymers	
A04-E06	<p>Vinylidene halide homopolymers Excluding fluoride for which see A04-E10B.</p>	
A04-E07	<p>Vinylidene halide copolymers Excluding fluoride for which see A04-E10B.</p>	
A04-E08	Tetrafluoroethylene homopolymer (PTFE)	
A04-E08A	<ul style="list-style-type: none"> Production, compositions Prior to 1970 see A04-E08. 1970 	
A04-E08B	<ul style="list-style-type: none"> Mechanical engineering uses Prior to 1970 see A04-E08. 1970 	
A04-E09	Tetrafluoroethylene copolymers	
A04-E10	Fluorine containing other or general	
A04-E10A	<ul style="list-style-type: none"> Vinyl fluoride (co)polymers Prior to 1986 see A04-E10. 1986 	
A04-E10B	<ul style="list-style-type: none"> Vinylidene fluoride (co)polymers Prior to 1986 see A04-E10. 1986 	
A04-E10C	<ul style="list-style-type: none"> F containing ether (co)polymers Prior to 1986 see A04-E10. 1986 	
A04-E10D	<ul style="list-style-type: none"> Other specific F containing (co)polymers e.g. hexafluoropropylene, chlorotrifluoroethylene, fluoroacrylates. Prior to 1986 see A04-E10. 1986 	
A04-E	Others e.g. allyl chloride, chloroethyl vinyl ether.	
A04-F	POLYMERS FROM NITROGEN- AND HALOGEN-FREE, SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS	
A04-F01	General	
A04-F01A	<ul style="list-style-type: none"> Uses Prior to 1986 see A04-F01. 1986 	
A04-F01A1	<ul style="list-style-type: none"> Adhesives and binders; coatings Prior to 1986 see A04-F01. 1986 	
A04-F02	<p>Aldehyde (co)polymers e.g. acrolein.</p>	
A04-F03	<p>Ketone (co)polymers e.g. methyl vinyl ketone, methyl isopropenyl ketone.</p>	
A04-F04	<p>(Meth)acrylic acid or anhydride (co)polymers Including metal and ammonium salts.</p>	
A04-F04A	<ul style="list-style-type: none"> Production, compositions Prior to 1970 see A04-F04. 1970 	
A04-F04B	<ul style="list-style-type: none"> Adhesives and binders; coatings Prior to 1970 see A04-F04. 1970 	
A04-F05	<p>Other carboxylic acid or anhydride (co)polymers Excluding A04-F04+; including metal and ammonium salts, e.g. maleic anhydride, itaconic acid.</p>	
A04-F06	<p>(Meth)acrylic ester (co)polymers 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</p>	

A04-F06A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06. pre-1970 	A04-F08	Vinyl acetate homopolymer
A04-F06B	<ul style="list-style-type: none"> Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06. pre-1970 	A04-F09	Vinyl acetate copolymers Excluding ethylene-vinyl acetate copolymer (EVA) for which see A04-G07.
A04-F06C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06. pre-1970 	A04-F10	Other vinyl carboxylate (co)polymers Excluding A04-F08, A04-F09; e.g. vinyl butyrate, vinyl stearate.
A04-F06D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06. pre-1970 	A04-F11	Ether (co)polymers e.g. vinyl isobutyl ether, allyl ethers.
A04-F06E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06. pre-1970 	A04-F	Others 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.
A04-F06E1	<ul style="list-style-type: none"> .. Adhesives, coatings Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A04-F06E. 1970-1985 	A04-G	POLYMERS FROM UNSUBSTITUTED (CYCLO)-ALIPHATIC MONOOLEFINIC MONOMERS
A04-F06E2	<ul style="list-style-type: none"> .. Textile coatings and finishes Prior to 1970 see A04-F06E. 1970 	A04-G01	General Applied during pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967
A04-F06E3	<ul style="list-style-type: none"> .. Oil and fuel additives Prior to 1970 see A04-F06E. 1970 	A04-G01A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970
A04-F06E4	<ul style="list-style-type: none"> .. (Electro)photographic, optical Prior to 1986 see A04-F06E. 1986 	A04-G01B	<ul style="list-style-type: none"> Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970
A04-F06E5	<ul style="list-style-type: none"> .. Medical, dental, cosmetic and veterinary Prior to 1986 see A04-F06E. 1986 	A04-G01C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970
A04-F06E6	<ul style="list-style-type: none"> .. Adhesives and binders Prior to 1986 see A04-F06E1. 1986 	A04-G01D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970
A04-F06E7	<ul style="list-style-type: none"> .. Coatings Excluding A04-F06E2. Prior to 1986 see A04-F06E1. 1986 	A04-G01E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970
A04-F07	Esters of unsaturated carboxylic acids and saturated alcohols (co)polymers Excluding A04-F06+; e.g. dibutyl maleate.	A04-G02	Ethylene homopolymer Applied during pre-1970 (pre-CPI) accession number range 60,000P - 79,999P and was then discontinued. 1966-1967

A04-G02A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02. pre-1970 	A04-G03C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03. pre-1970
A04-G02B	<ul style="list-style-type: none"> Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01. pre-1970 	A04-G03D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03. pre-1970
A04-G02C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02. pre-1970 	A04-G03E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03. pre-1970
A04-G02D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02. pre-1970 	A04-G03E1	<ul style="list-style-type: none"> .. Films; packaging; (electro) photographic; medical, dental, cosmetic and veterinary; household, office Prior to 1970 see A04-G03E. 1970
A04-G02E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02. pre-1970 	A04-G04	Butene-1 (co)polymers
A04-G02E1	<ul style="list-style-type: none"> .. Adhesives and binders; coatings; textiles Prior to 1970 see A04-G02E. 1970 	A04-G05	Isobutene (co)polymers Excluding with isoprene for which see A04-G05A.
A04-G02E2	<ul style="list-style-type: none"> .. Films; packaging Prior to 1970 see A04-G02E. 1970 	A04-G05A	<ul style="list-style-type: none"> Butyl rubber i.e. isobutene-isoprene copolymer. Prior to 1970 see A04-G05. 1970
A04-G02E3	<ul style="list-style-type: none"> .. (Electro)photographic; medical; dental, cosmetic and veterinary; household, office Prior to 1970 see A04-G02E. 1970 	A04-G06	Ethylene copolymers with olefin-1 Including LLDPE and terpolymers such as EPDM.
A04-G02E4	<ul style="list-style-type: none"> .. Electrical and mechanical; engineering; building, civil engineering Prior to 1986 see A04-G02E. 1986 	A04-G06A	<ul style="list-style-type: none"> Production, compositions Prior to 1970 see A04-G06. 1970
A04-G03	Propylene homopolymer Applied during pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967	A04-G07	Ethylene with vinyl acetate (EVA)
A04-G03A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03. pre-1970 	A04-G08	Ethylene copolymers Excluding A04-G06+, A04-G07. See also A04-G11.
A04-G03B	<ul style="list-style-type: none"> Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03. pre-1970 	A04-G08A	<ul style="list-style-type: none"> Ethylene copolymers with unsaturated acids, anhydrides or esters For ionomers see A10-E21B. Prior to 1986 see A04-G08. 1986
		A04-G09	Propylene copolymers Excluding A04-G06+.
		A04-G10	4-Methylpentene-1 (co)polymers
		A04-G11	Ethylene co-polymers, general Indexed where three or more copolymers of Ethylene are present. 1994 <i>Previous code(s): A04-G01+, A04-G06+, A04-G07, A04-G08+</i>

A04-G	Others e.g. from hexene-1, norbornene, vinyl cyclohexane; including polyalkenamers i.e. involving ring opening without affecting C-C double bond.
A04-H	ADDITION TYPE RESINS
	2002
A04-H00H	General addition type resin
	2002

A05 CONDENSATION POLYMERS

A05-A	EPOXY RESINS 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.
	1966-1967
A05-A01	General Applied during the pre-70 (pre-CPI) accession number range 60,000P - 79,999P and was then discontinued.
	1966-1967
A05-A01A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.
	pre-1970
A05-A01B	. Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.
	pre-1970
A05-A01B1	.. With crosslinking agent or system Prior to 1986 see A05-A01B.
	1986
A05-A01C	. Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.
	pre-1970
A05-A01D	. Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.
	pre-1970
A05-A01E	. Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.
	pre-1970
A05-A01E1	.. Adhesives, coatings Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-A01E.
	1970-1985
A05-A01E2	.. Electrical engineering Including electrical encapsulation. Prior to 1970 see A05-A01E.
	1970
A05-A01E3	.. Adhesives and binders Prior to 1986 see A05-A01E1.
	1986

A05-A01E4	.. Coatings Prior to 1986 see A05-A01E1.	1986
A05-A02	Glycidyl ethers of phenols e.g. bisphenol-A diglycidyl ether.	
A05-A03	Glycidyl ethers of alcohols e.g. butane diol diglycidyl ether.	
A05-A04	Other glycidyl cpds. e.g. diglycidyl carboxylates; diglycidyl derivatives of amines; (co)polymers of glycidyl acrylates (with A04-F06+); polyglycidyl derivatives of isocyanuric acid.	
A05-A05	Cycloaliphatic epoxides e.g. vinyl cyclohexene diepoxide.	
A05-A	Others e.g. butadiene diepoxide.	
A05-B	AMINOPLASTS e.g. reaction products of aldehyde/ketone with amine/amide, usually involving alkylolation and then polycondensation. For etherified aminoplasts e.g. alkoxylated MF see A10-E08C.	
A05-B01	General	
A05-B02	Melamine-formaldehyde (MF) resins For 'alkylated' e.g. butylated or methoxy- methylolated MF resins see A10-E08C.	
A05-B03	Urea-formaldehyde (UF) resins	
A05-B04	Ethylene- or propylene-urea (derivatives)-formaldehyde resins	
A05-B	Others e.g. dicyandiamide-, benzoguanamine-formaldehyde resins.	
A05-C	PHENOPLASTS i.e. reaction products of aldehyde/ketone with phenol(s) usually involving alkylolation e.g. methylolation and then polycondensation. Includes resols and novolacs.	
A05-C01	General	
A05-C01A	. Production, compositions Prior to 1970 see A05-C01.	1970
A05-C01B	. Uses Prior to 1986 see A05-C01.	1986
A05-C01B1	.. Adhesives and binders; coatings; laminates; reinforced plastics Prior to 1986 see A05-C01.	1986

A05-C01B2	.. (Electro)photographic use <i>Previous code(s): A05-C01B</i>	1994
A05-C02	Polyhydric phenols and any aldehyde e.g. resorcinol-formaldehyde resins.	
A05-C03	Monohydric, mononuclear phenols and formaldehyde e.g. phenol-formaldehyde, cresol-formaldehyde.	
A05-C03A	. Adhesives and binders; coatings; laminates; reinforced plastics Prior to 1986 see A05-C03.	1986
A05-C04	Monohydric, mononuclear phenols and any other aldehyde	
A05-C	Others e.g. from monohydric, polynuclear phenols.	
A05-D	UNSATURATED LINEAR POLYMERS 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.	
A05-D01	General	
A05-D02	Unsaturated polyesters from unsaturated dibasic acids 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
A05-D02A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-D02B	. Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-D02C	. Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-D02D	. Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970

A05-D02E	. Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02. pre-1970	A05-E01B3	.. Specific uses Prior to 1986 see A05-E01B. 1986
A05-D02E1	.. Building, civil engineering; laminates Prior to 1970 see A05-D02E. 1970	A05-E01C	. Fabrication, treatment Excluding A05-E01B+. Prior to 1986 see A05-E01. 1986
A05-D	Others e.g. unsaturated polyesters from saturated dibasic acids and unsaturated dihydric alcohols.	A05-E01D	. Uses Excluding A05-E01B+. Prior to 1986 see A05-E01. 1986
A05-E	SATURATED POLYESTERS 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.	A05-E01D1	.. Adhesives and binders; coatings Prior to 1986 see A05-E01. 1986
A05-E01	General	A05-E01D2	.. Electrical engineering Prior to 1986 see A05-E01. 1986
A05-E01A	. Production, compositions Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-E01. 1970-1985	A05-E01D3	.. Films; packaging Prior to 1986 see A05-E01. 1986
A05-E01A1	.. Production Prior to 1986 see A05-E01A. 1986	A05-E02	From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols; hydroxyacids; or lactones and glycolides
A05-E01A2	.. Compositions Prior to 1986 see A05-E01A. 1986	A05-E02A	. From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols 2005
A05-E01B	. Textiles, textile treatments Prior to 1970 see A05-E01. 1970	A05-E02B	. From hydroxyacids e.g. polyhydroxybutyrate, polyhydroxyvalerate. 2005
A05-E01B1	.. Mechanical treatment Prior to 1986 see A05-E01B. 1986	A05-E02C	. From lactones and glycolides 2005
A05-E01B2	.. Chemical treatment Including dyeing. Prior to 1986 see A05-E01B. 1986	A05-E03	From isophthalic acid and dihydric alcohols or phenols Excluding from ring substituted isophthalic e.g. 5-sulphoisophthalic acid, for which see A05-E05. Including from copolymers of isophthalic acid and terephthalic acid.
		A05-E04	From terephthalic acid and dihydric alcohols or phenols 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. 1966-1967
		A05-E04A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04. pre-1970

A05-E04B	<ul style="list-style-type: none"> Compounding Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04. pre-1970 	A05-E10	Polyarylates Prior to 1986 see A05-E01+, A05-E03, A05-E04+ and A05-E05. 1986
A05-E04C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04. pre-1970 	A05-E	Others e.g. from dibasic non-carboxylic acids e.g. benzene disulphonic acid; from heterocyclic diacids.
A05-E04D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04. pre-1970 	A05-F	POLYAMIDES 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.
A05-E04E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04. pre-1970 	A05-F01	General Applied during the pre-1970 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued. 1966-1967
A05-E05	From other aromatic di-carboxylic acids and dihydric alcohols or phenols i.e. excluding A05-E03, A05-E04+, e.g. from 5-sulpho-isophthalic acid. For saturated polyesters based on naphthalene dicarboxylic acid see A05-E05A.	A05-F01A	<ul style="list-style-type: none"> Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E05A	<ul style="list-style-type: none"> From naphthalene dicarboxylic acid and dihydric alcohol or phenol 1994 <i>Previous code(s): A05-E05</i> 	A05-F01B	<ul style="list-style-type: none"> Compositions Applied from 80,000P (pre-CPI) to the end of 1985 and was then discontinued. Prior to 80,000P see A05-F01. 1967-1985
A05-E06	Polycarbonates; poly-thiocarbonates	A05-F01B1	<ul style="list-style-type: none"> With additives Including polymeric. Prior to 1986 see A05-F01B. 1986
A05-E06A	<ul style="list-style-type: none"> Production; compositions Prior to 1986 see A05-E06. 1986 	A05-F01B2	<ul style="list-style-type: none"> With polymers i.e. mixture. Prior to 1986 see A05-F01B. 1986
A05-E06B	<ul style="list-style-type: none"> Uses Prior to 1986 see A05-E06. 1986 	A05-F01C	<ul style="list-style-type: none"> Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E07	Polyesteramides; polyesterimides With A05-J01+.	A05-F01D	<ul style="list-style-type: none"> Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E08	Alkyd resins All types including glyptal resins, non-linear polyesters, drying oil or non-drying oil derived polyesters. Prior to 1970 see A05-E. 1970	A05-F01E	<ul style="list-style-type: none"> Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E09	Polyetheresters 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. 1986		

A05-F01E1	.. Textiles Prior to 1970 see A05-F01E. 1970	A05-G01C	. Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
A05-F01E2	.. Electrical and mechanical engineering Prior to 1970 see A05-F01E. 1970	A05-G01D	. Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
A05-F01E3	.. Films; packaging; medical, dental, cosmetic and veterinary; (electro) photographic Prior to 1986 see A05-F01E. 1986	A05-G01E	. Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
A05-F02	From aliphatic dibasic acid(s) and any diamine(s) e.g. nylon 6:6 and nylon 6:10.	A05-G01E1	.. Coatings Prior to 1970 see A05-G01E. 1970
A05-F03	From lactam(s) and/or amino acid(s) e.g. nylon 6, nylon 11.	A05-G01E2	.. Electrical and mechanical engineering Prior to 1986 see A05-G01E. 1986
A05-F04	Polyaminoamides from polymerised vegetable oil acids and polyamino components (Versamids®)	A05-G02	From polyester polyol(s) and isocyanate(s) For polyester polyols do not search code(s) from A05-E; see note under Polyesters.
A05-F05	Polyamides from aromatic dicarboxylic acid(s) and aromatic diamine(s) only Including aramids, 'Kevlar' ®. Prior to 1986 see A05-F. 1986	A05-G03	From polyether polyol(s) and isocyanate(s) For polyether polyols do not search code(s) from A05-H; see note under Polyethers.
A05-F	Others e.g. from di-isocyanates and di-acids; polyamideimides (with A05-J01+).	A05-G04	From monomeric polyols and isocyanate e.g. from butanediol.
A05-G	POLYURETHANES 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).	A05-G	Others e.g. from polybutadiene diol and isocyanate(s); from bis-haloformates and diamines.
A05-G01	General Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967	A05-H	POLYETHERS 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.
A05-G01A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970	A05-H01	General
A05-G01B	. Compositions Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970	A05-H01A	. Production, compositions Prior to 1986 see A05-H01. 1986

A05-H01B	. Uses Prior to 1986 see A05-H01.	1986
A05-H02	Oxymethylene (co)polymers (acetal resin) Including formaldehyde homologues e.g. trioxane.	
A05-H02A	. Production, compositions Prior to 1970 see A05-H02.	1970
A05-H03	Oxyethylene (co)polymers	
A05-H03A	. Production, compositions general Prior to 1970 see A05-H03.	1970
A05-H03A1	.. Oxyethylene Homopolymer production	2002
A05-H03A2	.. Copolymer production	2002
A05-H03A3	.. Oxyethylene Homopolymer compositions	2002
A05-H03A4	.. Copolymer compositions	2002
A05-H04	Oxypropylene (co)polymers Including epihalohydrin polymers.	
A05-H04A	. Production, compositions general	2002
A05-H04A1	.. Oxypropylene Homopolymer production	2002
A05-H04A2	.. Copolymer production	2002
A05-H04A3	.. Oxypropylene Homopolymer compositions	2002
A05-H04A4	.. Copolymer compositions	2002
A05-H05	From furans and derivatives e.g. polytetrahydrofuran.	
A05-H06	Phenoxy resins i.e. from dihydric phenols, including bisphenols, and epihalohydrins; excluding A05-A02.	
A05-H07	Aromatic polyethers Excluding A05-H06.	
A05-H07A	. Polyarylene ethers <i>Previous code(s): A05-H07</i>	1994
A05-H	Others e.g. Polyglycerol	
A05-J	OTHER POLYMERS	
A05-J01	Polyimides e.g. formed from a tetracarboxylic acid and a diamine. Including polyamic acid. For polyamideimides see also A05-F.	
A05-J01A	. Production, compositions Prior to 1986 see A05-J01.	1986
A05-J01B	. Uses Prior to 1986 see A05-J01.	1986
A05-J02	Heterocyclic polymers produced by cyclisation during polycondensation Including: e.g. polyhydantoins, polyparabanic acid, polybenzimidazoles, polyisocyanurates, polycyanurates, polyoxazoli(di)nes, polydopamine. Excluding: polyimides, for which code from A05-J01+.	
A05-J03	Polyanhydrides	
A05-J04	Polyureas; polythioureas e.g. from polyamines and polyisocyanates.	
A05-J05	Polysulphides; polyepisulphides (polythioethers, thiokols); polyene-polythiol polymers	
A05-J05A	. Poly (arylene sulphides) e.g. polyphenylene sulphide. <i>Previous code(s): A05-J05</i>	1994
A05-J06	Polysulphones All types including polyethers containing sulphone group(s) from 1986. For earlier references see A05-H07.	
A05-J07	Polyalkyleneimines e.g. polyethylene imine.	
A05-J08	Aldehyde or ketone condensates Excluding A05-B.; A05-C.; A05-H02+; e.g. naphthalene sulphonic acid-formaldehyde condensates, furfural resins. Prior to 1970 see A05-J.	1970
A05-J09	Amine-epihalohydrin polymers; polycarbodiimides, polyhydrazides Prior to 1977 see A05-J.	1977
A05-J10	Polyketones Including poly(ether) ether ketones e.g. PEEK®. Prior to 1986 see A05-J and A05-H07 for structures such as (OCC6H4COOC6H4)n and (OC6H4OC6H4COC6H4)n respectively.	1986

A05-J11	Polyimines 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
A05-J12	Polypyrroles and polythiophenes Optionally substituted. 1994 <i>Previous code(s): A05-J</i>
A05-J13	(Methylene)Arylene polymer Includes e.g. poly-p-xylylene, polyfluorenes, xylok resins (phenol-aralkyl resin). 2022
A05-J	Others Excluding A05-A01 to A05-J11; e.g. furan resins (from furfuryl alcohol), Friedel Crafts resins, poly-p-xylylene and phenol-terpene resins.
A05-K	CONDENSATION TYPE RESINS 2002
A05-K00K	General condensation type resin 2002

A06 INORGANIC POLYMERS

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

A06-A	SILICON POLYMERS Including silicones, polysiloxanes, polysilazanes.
A06-A	General Applied during the pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967
A06-A00A	. Production Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
A06-A00B	. Compositions Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
A06-A00C	. Fabrication Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
A06-A00D	. Treatment Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
A06-A00E	. Uses Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
A06-A00E1	.. Adhesives and binders; coatings, textile treatment Prior to 1970 see A06-A00E. 1970
A06-A00E2	.. Chemical, electrical and mechanical engineering Prior to 1970 see A06-A00E. 1970
A06-A00E3	.. Medical, dental, cosmetic and veterinary Prior to 1986 see A06-A00E. 1986
A06-A00E4	.. (Electro)photographic; printing; optical Prior to 1986 see A06-A00E. 1986

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

A07 POLYMER BLENDS, AQUEOUS DISPERSIONS

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

A07-A03A	<ul style="list-style-type: none"> Containing saturated polyester and/or polycarbonate 	<ul style="list-style-type: none"> Prior to 1986 see A07-A03. 	1986	A07-B03	Other addition polymer dispersions Prior to 1977 see A07-B.	1977
A07-A03B	<ul style="list-style-type: none"> Containing epoxy resin 	<ul style="list-style-type: none"> Prior to 1986 see A07-A03. 	1986	A07-B04	Natural and/or condensation polymer dispersions Prior to 1977 see A07-B.	1977
A07-A03C	<ul style="list-style-type: none"> Containing polyamide, polyurethane and/or polyether 	<ul style="list-style-type: none"> Prior to 1986 see A07-A03. 	1986			
A07-A03D	<ul style="list-style-type: none"> Containing unsaturated polyester, alkyd, aminoplast and/or phenoplast 	<ul style="list-style-type: none"> Prior to 1986 see A07-A03. 	1986			
A07-A03E	<ul style="list-style-type: none"> Other condensation polymer(s) 		2020			
A07-A04	Containing mixtures of addition and condensation polymers Prior to 1970 see A07-A.		1970			
A07-A04A	<ul style="list-style-type: none"> Epoxy resin 	<ul style="list-style-type: none"> Prior to 1977 see A07-A04. 	1977			
A07-A04B	<ul style="list-style-type: none"> Phenoplast and/or aminoplast 	<ul style="list-style-type: none"> Prior to 1977 see A07-A04. 	1977			
A07-A04C	<ul style="list-style-type: none"> Unsaturated polyester 	<ul style="list-style-type: none"> Prior to 1977 see A07-A04. 	1977			
A07-A04D	<ul style="list-style-type: none"> Saturated polyester 	<ul style="list-style-type: none"> Including alkyds. Prior to 1977 see A07-A04. 	1977			
A07-A04E	<ul style="list-style-type: none"> Polyamide, polyurethane and/or polyether 	<ul style="list-style-type: none"> Prior to 1977 see A07-A04. 	1977			
A07-A04F	<ul style="list-style-type: none"> Other condensation polymer(s) 	<ul style="list-style-type: none"> Prior to 1977 see A07-A04. 	1977			
A07-A05	Unspecified polymer		2002			
A07-B	AQUEOUS DISPERSIONS AND LATEXES					
A07-B	General					
A07-B01	Rubber latexes Natural or synthetic. Prior to 1970 see A07-B.		1970			
A07-B02	Acrylic polymer dispersions Prior to 1977 see A07-B.		1977			

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.

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

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

A08-C07A	Styrene crosslinker Prior to 1986 see A08-C07.	1986
A08-C08	Polymeric crosslinker Prior to 1977 see A08-C.	1977
A08-C09	Phenol, Nitrogen or metal containing compounds crosslinkers Excluding A08-C04, A08-C05, A08-C07, A08-C08; e.g. azobisisobutyronitrile, BF3. Prior to 1977 see A08-C.	1977
A08-C09A	Isocyanate crosslinkers Excluding A08-C04, A08-C05, A08-C07 and A08-C08. <i>Previous code(s): A08-C09</i>	1994
A08-C10	Water crosslinker <i>Previous code(s): A08-C</i>	1994
A08-C	Other crosslinkers e.g. non-metallic halonium salts.	
A08-D	CROSSLINKERS AND ACCELERATORS FOR OTHER POLYMERS Excluding those covered by A08-C.	
A08-D01	General	
A08-D02	Acids and anhydrides	
A08-D03	Amines e.g. aminophenols, imidazoles, hexamethylene tetramine, ammonium chloride, including hydrazine and hydrazides.	
A08-D04	Nitrogen containing compounds Excluding A08-D03 ; e.g. polyamides.	
A08-D04A	(Poly)isocyanates Optionally blocked. Prior to 1986 see A08-D04.	1986
A08-D05	Metal containing compounds and polymers thereof Including Boron, Phosphorus, Silicon. Prior to 1986 see A08-D.	1986
A08-D06	Water crosslinker <i>Previous code(s): A08-D</i>	1994
A08-D	Others e.g. peroxides, persalts.	
A08-E	DYES AND PIGMENTS i.e. surface colouring agents and bulk colouring agents respectively.	

A08-E01	General Including printing pastes.	
A08-E02	Inorganic pigments Including inorganic delustrants, brighteners e.g. TiO2.	
A08-E03	Organic dyes	
A08-E03A	Azo Prior to 1970 see A08-E03.	1970
A08-E03A1	Monoazo, water soluble Prior to 1977 see A08-E03A.	1977
A08-E03A2	Monoazo, water insoluble Prior to 1977 see A08-E03A.	1977
A08-E03A3	Dis- and polyazo Prior to 1977 see A08-E03A.	1977
A08-E03B	Anthraquinone Prior to 1970 see A08-E03.	1970
A08-E03C	Optical brighteners Including delustrants, flatt(en)ing agents. Prior to 1970 see A08-E03.	1970
A08-E04	Organic pigments	
A08-F	FLAME RETARDANTS For intumescent agents search the appropriate code from this section and the appropriate code from A08-B:.	
A08-F01	General	
A08-F02	Antimony containing compounds e.g. Sb2O3.	
A08-F03	Phosphorus containing compounds e.g. red Phosphorus, tricresyl phosphate.	
A08-F04	Halogen containing compounds	
A08-F04A	Polymeric e.g. chlorinated polyethylene. Prior to 1977 see A08-F04.	1977
A08-F04B	Non-polymeric aromatic or heterocyclic compounds With direct halogen-ring bond(s) e.g. tetrabromo bisphenol A. Prior to 1977 see A08-F04.	1977
A08-F04C	Non-polymeric (cyclo)aliphatic compounds e.g. carbon tetrabromide, hexabromocyclododecane. Prior to 1977 see A08-F04.	1977

A08-F05	Aluminium hydroxide <i>Previous code(s): A08-F</i>	1994	A08-M08	Prodegradants, peptising agents Prior to 1977 see A08-M.	1977
A08-F	Others Including smoke inhibitors.		A08-M09	Agents affecting mechanical, electrical, optical, magnetic and thermal properties Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A08-M.	1977-1985
A08-M	MISCELLANEOUS AGENTS OR ADDITIVES		A08-M09A	. Electrical, magnetic Prior to 1986 see A08-M09.	1986
A08-M01	Adhesion improvers, subbing agents, bonding aids i.e. agents to improve the adhesiveness between polymer and substrate.		A08-M09A1	.. Carbon electroconductivity agent e.g. carbon nanotubes, fullerenes, graphene. Excl: (In)organic carbon compounds. Prior to 2011 see A08-M09A.	2011
A08-M01A	. Dyeing and printing aids, dye receptiveness improving agents, dye levellers, dye/pigment dispersants Including polymeric. Prior to 1970 see A08-M01.	1970	A08-M09B	. Mechanical Prior to 1986 see A08-M09.	1986
A08-M01B	. Polymeric adhesion improvers Prior to 1977 see A08-M01.	1977	A08-M09C	. Optical; thermal Prior to 1986 see A08-M09.	1986
A08-M01C	. Acids, metal compounds adhesion improvers e.g. organo-aluminium or titanium compounds. Prior to 1977 see A08-M01.	1977	A08-M09C1	.. Carbon thermal conductivity agent e.g. carbon nanotubes, fullerenes, graphene. Excl: (In)organic carbon compounds. Prior to 2011 see A08-M09C.	2011
A08-M01D	. Silicon containing compounds adhesion improvers e.g. alkoxy silanes, vinyl silanes. Prior to 1977 see A08-M01.	1977	A08-M10	Other specifically functional agents Including nucleating agents. Prior to 1977 see A08-M.	1977
A08-M02	Antiseptic, fungicidal, animal repellents e.g. tin compounds, copper compounds.		A08-M10A	. Compatibility improver	2017
A08-M03	Lubricants e.g. silicones, metal stearates.		A08-M	Others Includes additives of unspecified function.	
A08-M03A	. Lubricants and oiling agents for fibres and textiles Prior to 1986 see A08-M03.	1986	A08-P	PLASTICISERS AND EXTENDERS	
A08-M03B	. Mould release agents; internal lubricants Prior to 1986 see A08-M03.	1986	A08-P01	General	
A08-M04	Odorants, deodorants		A08-P02	Phthalates	
A08-M05	Tackifiers		A08-P03	Other aromatic acid esters Excluding A08-P02; e.g. trimellitates.	
A08-M06	Viscosity modifiers Excluding A08-A; including thixotropic agents.		A08-P04	(Cyclo)Aliphatic carboxylic acid esters e.g. adipates, sebacates. Including cyclohexyl carboxylic acid esters.	
A08-M07	Antiblocking agents, dusting agents, slip agents i.e. materials applied to polymer surfaces to reduce their adhesiveness e.g. talc. Prior to 1970 see A08-M.	1970	A08-P05	Inorganic acid esters e.g. phosphates.	
			A08-P06	Hydroxy acid esters e.g. citrates.	

A08-P07	Epoxy compounds e.g. epoxidised soybean oil.
A08-P08	Coal tar fractions, oils, waxes, hydrocarbons Excluding A08-P02 to A08-P07.
A08-P	Others e.g. glycerine, thioethers.
A08-R	FILLERS AND REINFORCING AGENTS
A08-R01	General
A08-R02	Asbestos
A08-R03	Carbon Including carbon black, graphite (non-fibrous).
A08-R03A	. Fibrous Prior to 1986 see A08-R03.
	1986
A08-R04	Glass Any form, including fibres, flake, powder, microspheres. See also A12-S08B.
A08-R05	Metal Including Boron, Phosphorus, Silicon; excluding compounds of metals.
A08-R06	Silica and silicates Applied from the start of Plasdac to the end of 1985 and was then discontinued.
	1966-1985
A08-R06A	. Silica Including SiO ₂ , sand, quartz, white carbon, aerosil, silicic acid, diatomite. Prior to 1986 see A08-R06.
	1986
A08-R06B	. Silicates Including talc, mica, kaolin, clay, zeolite, wollastonite. Prior to 1986 see A08-R06.
	1986
A08-R07	Cellulosic Including wood powder/sawdust, shavings. Not to be searched for chipboard, hardboard or fibreboard, for which see A12-A04+.
A08-R08	Polymeric
A08-R08A	. Fibrous polymeric fillers
	1994 <i>Previous code(s): A08-R08</i>
A08-R08B	. Particulate polymeric fillers
	1994 <i>Previous code(s): A08-R08</i>

A08-R09	Whiskers e.g. potassium titanate. Prior to 1986 see A08-R.
	1986
A08-R	Others Including metal compounds e.g. CaCO ₃ , BaSO ₄ .
A08-S	SURFACE ACTIVE AGENTS Excluding adhesion improvers, tackifiers, lubricants, antiblocking agents, for which see A08-M:.
A08-S01	General
A08-S02	Solvents; swelling agents
A08-S03	Anti-foaming agents
A08-S04	Anti-static agents
A08-S05	Emulsifiers; wetting agents
A08-S06	Protective colloids
A08-S07	Foam stabilisers; cell control agents Prior to 1977 see A08-S.
	1977
A08-S08	Absorption agents; repellance agents Including scale inhibitors, antifog agents. For use of polymeric repellent finishes on fibres see A12-G03 only. Prior to 1977 see A08-S.
	1977
A08-S09	Anti-settling agents e.g. fumed silica.
	2018
A08-S	Others Including coagulants.

A09 PROPERTIES, ANALYSIS, TESTING, CONTROL

A09-A	PROPERTIES 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.
A09-A01	Non-flammability
A09-A01A	<ul style="list-style-type: none"> Thermal properties Including heat stability. Prior to 1970 see A09-A01.
	1970
A09-A02	Optical properties Including transparency and refractive index.
A09-A02A	<ul style="list-style-type: none"> Liquid crystal, nematic properties e.g. optically anisotropic melt. Prior to 1986 no specific code was available.
	1986
A09-A03	Electrical e.g. (non)-conductivity. Including for (doped) polyacetylenes.
A09-A03A	<ul style="list-style-type: none"> Electroluminescent property
	2002
A09-A04	Magnetic properties
A09-A05	Mechanical
A09-A05A	<ul style="list-style-type: none"> Impact strength, toughness Prior to 1986 see A09-A05.
	1986
A09-A05B	<ul style="list-style-type: none"> Shape-memory property Includes self-healing, self-repairing. Prior to 2005 see A09-A05.
	2005
A09-A06	Dyeability, printability Prior to 1977 see A09-A.
	1977
A09-A07	Biodegradability
	1994
	<i>Previous code(s): A09-A</i>
A09-A08	Absorption/adsorption properties
	1994
	<i>Previous code(s): A09-A</i>
A09-A09	Permeability properties Includes semipermeability and gas barrier properties.
	1994
	<i>Previous code(s): A09-A</i>
A09-A	Others e.g. fungicidal.

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

A10-A	NATURAL POLYMER PRODUCTION
A10-A	Natural polymer production Excluding modification of natural polymers; including petroleum resin production, extraction of natural polymers e.g. tapping of rubber trees.
A10-B	ADDITION (CO)POLYMERISATION Excluding A10-C:.
A10-B01	General Including equipment.
A10-B02	Bulk
A10-B03	Emulsion
A10-B04	Solution
A10-B05	Suspension
A10-B06	Irradiation
A10-B07	Interfacial
A10-B08	Oligomerisation; telomerisation Including dimerisation. Prior to 1970 see A10-B.
	1970
A10-B	Others e.g. gaseous phase, high pressure.
A10-C	ORDERED COPOLYMERISATION BY ADDITION
A10-C01	General
A10-C02	Block copolymerisation
A10-C03	Graft copolymerisation
A10-C03A	. Grafting onto formed polymeric substrates Including fibres and articles. Prior to 1970 see A10-C03.
	1970
A10-C03B	. By emulsion or suspension processes Prior to 1977 see A10-C03 and A10-C03A.
	1977

A10-C03C	. By solution, bulk or irradiation initiated processes Prior to 1977 see A10-C03 and A10-C03A.
	1977
A10-D	CONDENSATION POLYMERISATION
A10-D01	Interfacial
A10-D02	Ordered cocondensation
A10-D03	Ring opening or closure Prior to 1970 see A10-D.
	1970
A10-D04	Equipment Prior to 1970 see A10-D01, A10-D02 and A10-D appropriately.
	1970
A10-D05	Polyesterification Includes carbonate bond formation.
	1994
	<i>Previous code(s): A10-D+</i>
A10-D06	Electrolytic/oxidative polymerisation
	1994
	<i>Previous code(s): A10-D</i>
A10-D	Others
A10-E	CHEMICAL MODIFICATION 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.
A10-E01	General
A10-E02	Acetalisation Used for polyvinyl acetal, butyral, formal and polyvinyl ketals.
A10-E03	Alkylation; arylation i.e. formation of C-C bond. e.g. haloalkylation, aminoarylation.
A10-E04	Dehalogenation; (de)hydrohalogenation
A10-E04A	. Halogenation Prior to 1986 see A10-E04.
	1986

A10-E05	Depolymerisation; degradation	A10-E09A	. Polyvinyl alcohol compositions Prior to 1970 see A10-E09.	1970
A10-E05A	. Pyrolysis of waste polymeric material Prior to 1977 see A10-E05.	A10-E09B	. Polyvinyl alcohol uses Prior to 1970 see A10-E09.	1970
	1977			
A10-E05B	. Carbonisation Excluding A10-E05A. Prior to 1977 see A10-E05.	A10-E09B1	.. Adhesives and binders; coatings Prior to 1986 see A10-E09B.	1986
	1977			
A10-E05C	. Depolymerisation to monomers or oligomers Prior to 1977 see A10-E05.	A10-E09B2	.. Optical, (electro) photographic, laboratory; medical, dental, cosmetic and veterinary Prior to 1986 see A10-E09B.	1986
	1977			
A10-E06	Epoxidation e.g. epoxidised polybutadiene. For epoxidised novolac see A10-E08C.	A10-E10	Electric discharge, ultrasonic treatment and irradiation Including by UV and by ionising rays; excluding for crosslinking, for which see A11-C02B.	
A10-E07	Esterification	A10-E11	Oxidation; ozonisation Including dehydrogenated polymers.	
A10-E07A	. By unsaturated polybasic acid (or derivatives) e.g. maleic acid. Prior to 1977 see A10-E07.	A10-E12	Sulphonation or sulphohalogenation Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1966-1985
	1977			
A10-E07B	. By unsaturated monobasic acid (or derivatives) Including acrylated epoxy resins. Prior to 1977 see A10-E07.	A10-E12A	. Sulphonation Prior to 1986 see A10-E12.	1986
	1977			
A10-E07C	. By saturated acid (or derivatives) Prior to 1977 see A10-E07.	A10-E12B	. Halosulphonation Prior to 1986 see A10-E12.	1986
	1977			
A10-E08	Etherification	A10-E13	Hydrogenation Including reduction by other means.	
A10-E08A	. (Cyclo)aliphatic ether of polyether containing oxyethylene and/or oxypropylene units only Prior to 1977 see A10-E08.	A10-E14	Cyclisation	
	1977	A10-E15	Amidation, amination Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A10-E.	1970-1976
A10-E08B	. Other ethers of polyoxyalkylene glycols Prior to 1977 see A10-E08.	A10-E16	Incorporation of metal atoms 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
	1977			
A10-E08C	. Other etherified polymers Including 'alkylated' melamine, e.g. (methoxy) methylolated melamine; epoxidised phenoplasts. Prior to 1977 see A10-E08.	A10-E17	Amidation Prior to 1977 see A10-E15.	1977
	1977			
A10-E09	Hydrolysis, saponification, alcoholysis, glycolysis For (partially) hydrolysed polyvinyl acetate or ethylene vinyl acetate copolymer see A10-E09A or A10-E09B+ appropriately.	A10-E17A	. Amidation of epoxy resins or polyethers	2002
		A10-E17B	. Amidation of other polymers	2002

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

A11 PROCESSING POLYMERS INCLUDING EQUIPMENT

A11-A	PRELIMINARY PROCESSES	
A11-A01	Colouring, bleaching	
A11-A01A	<ul style="list-style-type: none"> With specific compositions Prior to 1970 see A11-A01. 	1970
A11-A01B	<ul style="list-style-type: none"> Processes Prior to 1970 see A11-A01. 	1970
A11-A02	Heating Including pre-heating and drying; excluding annealing etc. for which see A11-B02+ and crosslinking for which see A11-C02+.	
A11-A02A	<ul style="list-style-type: none"> Heating film/sheet, divided forms e.g. powders, fibre or fabric. Prior to 1977 see A11-A02. 	1977
A11-A02B	<ul style="list-style-type: none"> Heating other forms Excluding A11-A02A; e.g. moulded articles, tubes, parisons. Prior to 1977 see A11-A02. 	1977
A11-A02C	<ul style="list-style-type: none"> Cooling Excluding A11-B07D. Prior to 1977 see A11-A02. 	1977
A11-A03	Mixing, compounding, homogenising, blending	
A11-A03A	<ul style="list-style-type: none"> Equipment Prior to 1970 see A11-A03. 	1970
A11-A04	Divided forms of polymer production e.g. by granulation, grinding to powders, pelleting.	
A11-A05	Cutting, sawing and other machining Excluding A11-A04.	
A11-A05A	<ul style="list-style-type: none"> Perforating, punching, slitting, drilling holes; cutting tubes and tyres Prior to 1977 see A11-A05. 	1977
A11-A05B	<ul style="list-style-type: none"> Deflashing and burr removal; cutting recesses, grooves, threads, etc., in surfaces Prior to 1977 see A11-A05. 	1977
A11-A05C	<ul style="list-style-type: none"> Cutting films and fabrics e.g. during bag making. Prior to 1977 see A11-A05. 	1977

A11-A06	Sieving, sorting, filtering, classifying Classifying, sieving, filtering of raw materials.	2022
A11-A	Others Including methods of feeding raw materials, degassing, vacuum hoppers.	
A11-B	FORMING PROCESSES	
A11-B01	General	
A11-B02	Annealing, crystallising, heat-setting, orienting, drawing, fibrillating	
A11-B02A	<ul style="list-style-type: none"> Orienting/stretching film Prior to 1970 see A11-B02. 	1970
A11-B02B	<ul style="list-style-type: none"> Orienting/stretching fibres Inc: fabric. Prior to 1970 see A11- B02. 	1970
A11-B02C	<ul style="list-style-type: none"> Heat-setting films/fibres Prior to 1970 see A11-B02. 	1970
A11-B02D	<ul style="list-style-type: none"> Crimping, bulking Prior to 1977 see A11-B02C. 	1977
A11-B02E	<ul style="list-style-type: none"> Shrinking Prior to 1977 see A11-B02C. 	1977
A11-B03	Calendering	
A11-B04	Casting; slush-, dip-, and rotary moulding, general Including with monomer or condensant and polymerising.	
A11-B04A	<ul style="list-style-type: none"> By rotational moulding, centrifugal casting Prior to 1977 see A11-B04. 	1977
A11-B04B	<ul style="list-style-type: none"> By other specific moulding methods e.g. dip moulding, shell moulding; excluding A11-B04C. Prior to 1977 see A11-B04. 	1977
A11-B04C	<ul style="list-style-type: none"> Forming films, sheets, lace Prior to 1977 see A11-B04. 	1977
A11-B05	Coating Including spreading, encapsulation.	
A11-B05A	<ul style="list-style-type: none"> Electrodeposition, dipping Search with A11-B05D if coating is dispersion, solution or paste. Including fluidised bed. Prior to 1970 see A11-B05. 	1970

A11-B05B	<ul style="list-style-type: none"> Coating by spraying, flocking, extrusion, general Search with A11-B05D if coating is dispersion, solution or paste. Prior to 1970 see A11-B05. 	1970	A11-B07	Extrusion and coextrusion Excluding coating by extrusion for which see A11-B05B2, extrusion spinning for which see A11-B15+ and extrusion foaming for which see A11-B06B.	
A11-B05B1	<ul style="list-style-type: none"> By spraying Prior to 1986 see A11-B05B. 	1986	A11-B07A	<ul style="list-style-type: none"> Of film and sheet Including inflation forming tubular film. Prior to 1970 see A11-B07. 	1970
A11-B05B2	<ul style="list-style-type: none"> By extrusion Prior to 1986 see A11-B05B. 	1986	A11-B07B	<ul style="list-style-type: none"> Of tube and other profiles Excluding A11-B07A. Prior to 1970 see A11-B07. 	1970
A11-B05B3	<ul style="list-style-type: none"> Spin coating 	2016	A11-B07C	<ul style="list-style-type: none"> Other extrusion Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately. 	1977
A11-B05C	<ul style="list-style-type: none"> With monomer or condensant and polymerising Excluding A11-B04+; i.e. leaving a finished coating. Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately. 	1977	A11-B07D	<ul style="list-style-type: none"> Associated processes e.g. cooling, haul-off. Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately. 	1977
A11-B05D	<ul style="list-style-type: none"> With dispersion, solution or paste Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately. 	1977	A11-B08	Forming Including corrugating, winding strips to form tube.	
A11-B05E	<ul style="list-style-type: none"> With powder, melt or foam Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately. 	1977	A11-B08A	<ul style="list-style-type: none"> Vacuum assisted forming of sheet or film Prior to 1977 see A11-B08. 	1977
A11-B05F	<ul style="list-style-type: none"> Encapsulation process Encapsulating. 	2016	A11-B08B	<ul style="list-style-type: none"> Forming of sheet or film Excluding A11-B08A. Prior to 1977 see A11-B08. 	1977
A11-B06	Expanding, foaming, pore-forming		A11-B08C	<ul style="list-style-type: none"> Forming from tube or pipe Including fittings. Prior to 1977 see A11-B08. 	1977
A11-B06A	<ul style="list-style-type: none"> To form specific goods Prior to 1970 see A11-B06. 	1970	A11-B09	Laminating; lay-up of reinforced plastics See also A12-S08+.	
A11-B06B	<ul style="list-style-type: none"> Involving extrusion Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately. 	1977	A11-B09A	<ul style="list-style-type: none"> To form specific goods Prior to 1970 see A11-B09. 	1970
A11-B06C	<ul style="list-style-type: none"> Involving molding Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately. 	1977	A11-B09A1	<ul style="list-style-type: none"> Involving fibrous/filament reinforcement Prior to 1986 see A11-B09A. 	1986
A11-B06D	<ul style="list-style-type: none"> Involving other specific methods e.g. by dissolution, sintering; excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately. 	1977	A11-B09A2	<ul style="list-style-type: none"> Involving non-fibrous material Excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1986 see A11-B09A. 	1986
			A11-B09B	<ul style="list-style-type: none"> Decorative laminate production; chip-, fibre-, card-board and plywood Prior to 1977 see A11-B09. 	1977

A11-B09C	<ul style="list-style-type: none"> Fibre reinforced plastics (FRP) production, filament winding, pultrusion Excluding A11-B09A+. Prior to 1977 see A11-B09. 	1977	A11-B16	Stereographic moulding 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.	1994
A11-B09D	<ul style="list-style-type: none"> Laminating non-fibrous bodies Excluding A11-B09A+; excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1977 see A11-B09. 	1977	A11-B17	Tyre manufacture All processes. See also A11-C02A1 and A12-T01A.	1994
A11-B09E	<ul style="list-style-type: none"> Other laminating processes Excluding A11-B09A+. Prior to 1977 see A11-B09. 	1977		<i>Previous code(s): A11-B</i>	
A11-B10	Blow molding Excluding A11-B07A.		A11-B	Others Including insert incorporation.	
A11-B11	Compression and transfer moulding		A11-C	OTHER MISCELLANEOUS PROCESSES i.e. on (semi-)finished polymers.	
A11-B12	Injection molding		A11-C01	Bonding, glueing, welding, heat-sealing, riveting	
A11-B12A	<ul style="list-style-type: none"> To form specific goods Prior to 1970 see A11-B12. 	1970	A11-C01A	<ul style="list-style-type: none"> Heat sealing, welding to make specific goods e.g. ultrasonic, microwave. Prior to 1970 see A11-C01. 	1970
A11-B12B	<ul style="list-style-type: none"> Molds Prior to 1977 see A11-B12 and A11-B12A appropriately. 	1977	A11-C01A1	<ul style="list-style-type: none"> Involving film, sheet; packaging Prior to 1986 see A11-C01A. 	1986
A11-B12C	<ul style="list-style-type: none"> Equipment Excluding A11-B12A and A11-B12B. Prior to 1977 see A11-B12 and A11-B12A appropriately. 	1977	A11-C01B	<ul style="list-style-type: none"> Heat sealing, welding, general e.g. ultrasonic, microwave. Prior to 1970 see A11-C01. 	1970
A11-B13	Pressing (between flat platens)		A11-C01C	<ul style="list-style-type: none"> Other bonding to make specific goods Prior to 1970 see A11-C01. 	1970
A11-B14	Sintering Excluding A11-B06D.		A11-C01D	<ul style="list-style-type: none"> Other bonding, general Prior to 1970 see A11-C01. 	1970
A11-B15	Spinning Including associated processes, e.g. take-off.		A11-C02	Crosslinking, curing, vulcanisation	
A11-B15A	<ul style="list-style-type: none"> Heads, die design, spinnerettes Prior to 1970 see A11-B15. 	1970	A11-C02A	<ul style="list-style-type: none"> Rubber vulcanisation Prior to 1970 see A11-C02. 	1970
A11-B15B	<ul style="list-style-type: none"> Melt Prior to 1970 see A11-B15. 	1970	A11-C02A1	<ul style="list-style-type: none"> Tyre vulcanisation Prior to 1986 see A11-C02A. 	1986
A11-B15B1	<ul style="list-style-type: none"> High speed melt spinning <i>Previous code(s): A11-B15B</i> 	1994	A11-C02B	<ul style="list-style-type: none"> Crosslinking with irradiation Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 	1977
A11-B15C	<ul style="list-style-type: none"> Solution i.e. wet or dry. Prior to 1970 see A11-B15. 	1970			

A11-C02C	<ul style="list-style-type: none"> Crosslinking involving coating and/or extrusion Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 	A11-C05A1	<ul style="list-style-type: none"> Melt blowing <i>Previous code(s): A11-C05A</i> 	1994
A11-C02D	<ul style="list-style-type: none"> Crosslinking involving moulding and/or foaming Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 	A11-C05B	<ul style="list-style-type: none"> Twisting, winding of fibres and yarns Prior to 1977 see A11-C05. 	1977
A11-C03	Scrap recovery Including retreading of tyres; reclaiming and recycling as well as use of reclaimed/recycled polymer.	A11-C05C	<ul style="list-style-type: none"> Other processing of fibres and yarns Inc: mercerizing, reeling. Prior to 1977 see A11-C05. 	1977
A11-C03A	<ul style="list-style-type: none"> Involving shredding, cutting, pulverising, granulating Prior to 1986 see A11-C03. 	A11-C05C1	<ul style="list-style-type: none"> Flash spinning <i>Previous code(s): A11-C05</i> 	1994
A11-C04	Surface treatment Including flame treatment.	A11-C06	Ejection of mouldings; conveying, winding and storage of plastics articles Prior to 1977 see A11-C.	1977
A11-C04A	<ul style="list-style-type: none"> Painting, printing Prior to 1970 see A11-C04. 	A11-C07	Waste treatment; pollution control Prior to 1977 see A11-C.	1977
A11-C04B	<ul style="list-style-type: none"> Metallising; coating with other materials, general Prior to 1970 see A11-C04. 	A11-C	Other miscellaneous processes 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.	
A11-C04B1	<ul style="list-style-type: none"> Metallising Prior to 1986 see A11-C04B. 			
A11-C04B2	<ul style="list-style-type: none"> Coating with other materials Excluding A11-C04B1. Prior to 1986 see A11-C04B. 			
A11-C04C	<ul style="list-style-type: none"> Embossing Prior to 1977 see A11-C04. 			
A11-C04D	<ul style="list-style-type: none"> Chemical treatment Including etching. Prior to 1977 see A11-C04. 			
A11-C04E	<ul style="list-style-type: none"> Corona discharge, plasma treatment; irradiation Prior to 1986 see A11-C04. 			
A11-C05	Textile processes 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:.			
A11-C05A	<ul style="list-style-type: none"> Producing fabrics Prior to 1977 see A11-C05. 			

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.

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

A12-A05B	. Addition polymer based Excluding diene rubber. Prior to 1970 see A12-A. 1970
A12-A05B1	.. Acrylic Prior to 1986 see A12-A05B. 1986
A12-A05B2	.. Polyolefins Monoolefinic hydrocarbon; including ethylene-vinyl acetate copolymer. Prior to 1986 see A12-A05B. 1986
A12-A05B3	.. Vinyl halide and/or vinyl carboxylate (co)polymers Excluding ethylene-vinyl acetate copolymer for which see A12-A05B2. Prior to 1986 see A12-A05B. 1986
A12-A05C	. Epoxy resin based Prior to 1970 see A12-A. 1970
A12-A05D	. Aminoplast or phenoplast based Prior to 1977 see A12-A05. 1977
A12-A05E	. Polyester based Prior to 1977 see A12-A05. 1977
A12-A05F	. Polyurethane or polyurea based; other resins from isocyanates Prior to 1977 see A12-A05. 1977
A12-B	COATINGS AND PAINTS 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.
A12-B01	General
A12-B01A	. Emulsion paints, latex paints, water based lacquers, general Prior to 1970 see A12-B01. 1970
A12-B01B	. Varnishes, solvent-based lacquers, general Prior to 1970 see A12-B01. 1970
A12-B01C	. Inorganic polymers, including silicon polymers; diene or polyene polymers Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 1977

A12-B01D	<ul style="list-style-type: none"> Natural polymers Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B02A	<ul style="list-style-type: none"> Leathercloth, synthetic leather Prior to 1970 see A12-B02.
A12-B01E	<ul style="list-style-type: none"> Acrylic polymers Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B02B	<ul style="list-style-type: none"> Polymer-bonded non-woven fabrics Prior to 1970 see A12-B02.
A12-B01F	<ul style="list-style-type: none"> Vinyl carboxylate or halogen containing addition polymers Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B03	Paper, cardboard Excluding for use in paper making for which see A12-W06+.
A12-B01G	<ul style="list-style-type: none"> Other addition polymers Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B03A	<ul style="list-style-type: none"> Compositions Prior to 1970 see A12-B03.
A12-B01H	<ul style="list-style-type: none"> Polyesters Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B04	On metal Excluding on electric wire, for which see A12-E02+.
A12-B01I	<ul style="list-style-type: none"> Phenoplasts or aminoplasts Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B04A	<ul style="list-style-type: none"> Compositions Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A12-B04.
A12-B01J	<ul style="list-style-type: none"> Polyurethanes Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B04B	<ul style="list-style-type: none"> Produced by specific techniques Including non-resinous pretreatment. Prior to 1977 see A12-B04A.
A12-B01K	<ul style="list-style-type: none"> Epoxy resins Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately. 	A12-B04C	<ul style="list-style-type: none"> Using natural, inorganic or condensation resins Prior to 1977 see A12-B04A.
A12-B01L	<ul style="list-style-type: none"> Other condensation polymers Prior to 2006 see A12-B01X. 	A12-B04D	<ul style="list-style-type: none"> Using acrylic resins Prior to 1977 see A12-B04A.
A12-B01V	<ul style="list-style-type: none"> General addition polymer coating Indexed for the generic case or when three or more codes are required from the A12-B01+ hierarchy. 	A12-B04E	<ul style="list-style-type: none"> Using vinyl carboxylate or halogen containing addition polymers Prior to 1977 see A12-B04A.
A12-B01W	<ul style="list-style-type: none"> General condensation polymer coating Indexed for the generic case and where three or more codes are required from the A12-B01+ hierarchy. 	A12-B04F	<ul style="list-style-type: none"> Using other addition polymers Prior to 1977 see A12-B04A.
A12-B01X	<ul style="list-style-type: none"> Fibres, cloth and felts Excluding finishes for which see A12-G: section or A12-S05S. 	A12-B05	On glass; glass fibre Excluding glass fibre reinforced for which see A12-S08+; Including on glass optical fibre (with A12-L03A). Prior to 1970 see A12-B.
A12-B02		A12-B06	On natural leather Prior to 1970 see A12-B.
		A12-B07	On polymers Excluding on fibres for which see A12-B02+ or A12-G+. Prior to 1970 see A12-B.

A12-B07A	<ul style="list-style-type: none"> On films Optionally laminated. Prior to 1977 see A12-B07. 	1977	A12-D02	Carpets and (foam) underlays	
A12-B07B	<ul style="list-style-type: none"> On foams Prior to 1977 see A12-B07. 	1977	A12-D03	Kitchenware Including brushes, boil-in-bag food packs, cooking utensils.	
A12-B07C	<ul style="list-style-type: none"> On tubes, cables or other profiles Prior to 1977 see A12-B07. 	1977	A12-D04	Other domestic e.g. refrigerators.	
A12-B08	On other inorganic material e.g. concrete, ceramics, stone. Prior to 1977 see A12-B.	1977	A12-D05	Office	
A12-B09	On wood or other plant derived material Including seeds, coal dust. Prior to 1977 see A12-B.	1977	A12-D05A	<ul style="list-style-type: none"> Pressure sensitive materials e.g. carbon(-less) paper, typewriter ribbon. Prior to 1986 see A12-D05. 	1986
A12-B	Other specific coatings e.g. on foods, medical tablets.		A12-D05B	<ul style="list-style-type: none"> Writing devices and inks Prior to 1986 see A12-D05. 	1986
A12-C	CLOTHING AND FOOTWEAR		A12-D	Others e.g. credit cards.	
A12-C00C	Clothing general	2002	A12-E	ELECTRICAL ENGINEERING	
A12-C01	Foamback fabrics and garments		A12-E01	General Including general insulating compositions.	
A12-C02	Safety clothing Excluding footwear; including sunglasses.		A12-E01A	<ul style="list-style-type: none"> Electromagnetic screening 	1994
A12-C02A	<ul style="list-style-type: none"> Gloves 	1994		<i>Previous code(s): A12-E+</i>	
A12-C02B	<ul style="list-style-type: none"> Helmets 	1994	A12-E02	Cable and wire insulation or coating	
A12-C02C	<ul style="list-style-type: none"> Protective Masks Includes surgical/medical masks (with A12-V03C1). 	2022	A12-E02A	<ul style="list-style-type: none"> Compositions Prior to 1970 see A12-E02. 	1970
A12-C03	Other clothing Including (slide)fasteners.		A12-E02B	<ul style="list-style-type: none"> Fabrication, treatment Prior to 1986 see A12-E02. 	1986
A12-C04	Footwear Including laces; excluding socks, hosiery, for which see A12-C03.		A12-E03	Insulation tape	
A12-D	HOUSEHOLD AND OFFICE FITTINGS OR ACCESSORIES		A12-E04	Potting compounds, encapsulating compositions and like insulation	
A12-D00D	General household/office application Indexed for the generic case and where three or more codes are required from the A12-D+ hierarchy.	1994	A12-E05	Insulating cases and bodies (moulded or cast)	
A12-D01	Furniture and soft furnishings Including mattresses, bedding, draperies.		A12-E06	Batteries, accumulators, fuel cells Prior to 1970 see A12-E and A12-E05 appropriately.	1970
			A12-E06A	<ul style="list-style-type: none"> Electrodes Prior to 1986 see A12-E06. 	1986
			A12-E06B	<ul style="list-style-type: none"> Separators, membranes Prior to 1986 see A12-E06. 	1986
			A12-E06C	<ul style="list-style-type: none"> Casings, seals, sealants Prior to 1986 see A12-E06. 	1986
			A12-E07	Circuit components Prior to 1970 see A12-E.	1970

A12-E07A	. Printed circuits Prior to 1977 see A12-E07. 1977	A12-E11B	. Photoelectric cells Including solar cells. Prior to 1986 see A12-E11. 1986
A12-E07B	. Capacitors Prior to 1977 see A12-E07. 1977	A12-E11C	. Electroluminescent devices 2002
A12-E07C	. Semiconductor devices, integrated circuits; resistors Prior to 1977 see A12-E07. 1977	A12-E12	Electroacoustic e.g. radios, loudspeakers, including transducers. Prior to 1977 see A12-E. 1977
A12-E07C1	.. Associated processing auxiliaries e.g. developers (with A12-L+), polishing compositions (with A12-A3), tape automated bonding (TAB) compositions. 2011	A12-E13	Instrumentation; measuring; testing Including probes, sensors, detectors. Prior to 1986 see A12-E. 1986
A12-E08	Magnetic e.g. magnets. Prior to 1970 see A12-E. 1970	A12-E14	Electrodes Excluding A12-E06A and A12-E09. Prior to 1986 see A12-E. 1986
A12-E08A	. Magnetic recording (compositions) Prior to 1986 see A12-E08. 1986	A12-E15	Piezoelectric compositions/devices Prior to 1986 see A12-E. 1986
A12-E08A1	.. Magnetic tape Including audio and video. Prior to 1986 see A12-E08. 1986	A12-E16	Superconductor application 1994 <i>Previous code(s): A12-E</i>
A12-E08A2	.. Other magnetic recording Including heads, (floppy)discs, magneto-(optical). Prior to 1986 see A12-E08. 1986	A12-E	Other electrical uses Including aerials, electrical waveguides, electric bus bars.
A12-E08B	. Motors, coils, transformers, generators Prior to 1986 see A12-E08. 1986	A12-F	FANCY GOODS, GAMES, SPORTS EQUIPMENT, TOYS, EDUCATIONAL DEVICES (OTHERS) Includes fancy goods, toys, educational devices, training, teaching, models, globes.
A12-E09	Electrolytic, electrochemical, or electrophoresis cells Including parts thereof e.g. electrodes. Prior to 1977 see A12-E. 1977	A12-F01	Sports and games equipment Including camping, board games, fishing lines. Prior to 1970 see A12-F. 1970
A12-E10	Heat and temperature uses e.g. temperature measurement, heating materials, heat sensitive materials. Prior to 1977 see A12-E. 1977	A12-F01A	. Sports areas Including courts, mats, pools. Prior to 1986 see A12-F01. 1986
A12-E11	Electro-optical Excluding liquid crystal (devices) for which see A12-L03B; e.g. lamps. Prior to 1977 see A12-E. 1977	A12-F01B	. Balls, racquets, clubs, bats Prior to 1986 see A12-F01. 1986
A12-E11A	. Electrochromic displays including cathode ray tubes; photodiodes (LED) Prior to 1986 see A12-E11. 1986	A12-F	Others Including fancy goods, toys: Educational devices, training, teaching, models, globes.
		A12-G	FIBRE AND TEXTILE POLYMERIC FINISHES
		A12-G00G	General or unspecified fibre and textile polymeric finishes 2002

A12-G01	Flame-retardant See also A12-S05R for non-resinous finishes.		A12-H04	Filters Excluding (semi)-permeable membranes (ultrafilters) for which see A12-W11A; includes cigarette filters.	
A12-G02	Shrink-, crease-resistant, non-iron See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.	1970	A12-H05	Moulds of rubber or plastics Excluding core moulds for which see A12-A02.	
A12-G03	Water-, oil-, soil-proofing See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.	1970	A12-H06	Hinges	
A12-G04	Sizes See also A12-S05R for non-resinous finishes.	1994	A12-H07	Valves, diaphragms Prior to 1970 see A12-H.	1970
A12-G	Others Excluding A12-S05S. See also A12-S05T for non-resinous finishes.		A12-H08	Seals Excluding A12-H07; sealants for which see A12-R08 and closures for which see A12-P03. Prior to 1970 see A12-H.	1970
A12-H	MECHANICAL ENGINEERING		A12-H09	Shock absorbers Prior to 1977 see A12-H.	1977
A12-H00H	General mechanical engineering Indexed for the generic case and where three or more codes are required from the A12-H+ hierarchy.	1994	A12-H10	Brake material; materials for increasing or decreasing friction; abrasion reducers Excluding bearings for which see A12-H03. Prior to 1977 see A12-H.	1977
A12-H01	(Conveyor) belts Including systems.		A12-H11	Rolls, rollers Prior to 1986 see A12-H.	1986
A12-H02	Hose, tubing, pipes		A12-H12	Fasteners Including screws, nuts, clamps, (anchor) bolts. Prior to 1986 see A12-H.	1986
A12-H02A	. Unreinforced Prior to 1970 see A12-H02.	1970	A12-H	Others e.g. tools, pumps, fan blades.	
A12-H02B	. Reinforced See also A12-S08+. Prior to 1970 see A12-H02.	1970	A12-L	(ELECTRO)PHOTOGRAPHY, LABORATORY, OPTICAL (Electro)photographic materials include those sensitive to (UV) light or ionising radiation.	
A12-H02C	. Fittings e.g. flanges, connectors. Prior to 1977 see A12-H02, A12-H02A and A12-H02B appropriately.	1977	A12-L00L	General optical	2002
A12-H02D	. Coatings, linings Including polymer laminates and coextrudates. Prior to 1977 see A12-H02, A12-H02A, and A12-H02B appropriately.	1977	A12-L01	Photographic (film) support; binders	
A12-H02D1	.. Lagging, thermal insulation Prior to 1986 see A12-H02D	1986	A12-L02	Other photographic materials, processes	
A12-H03	Gears, bearing surfaces and similar joints		A12-L02A	. Apparatus 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.	1970

A12-L02B	<ul style="list-style-type: none"> Compositions for making printing plates or electrical devices Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L02. 1977-1985 	A12-L04	Laboratory
A12-L02B1	<ul style="list-style-type: none"> .. Printing plates Prior to 1986 see A12-L02B. 1986 	A12-L04A	<ul style="list-style-type: none"> Chromatography 1994 <i>Previous code(s): A12-L04</i>
A12-L02B2	<ul style="list-style-type: none"> .. Electrical devices e.g. printed circuits. Prior to 1986 see A12-L02B. 1986 	A12-L04B	<ul style="list-style-type: none"> Sensors/measuring Excluding A12-E13. 1994 <i>Previous code(s): A12-L04</i>
A12-L02C	<ul style="list-style-type: none"> Radiation sensitive compositions containing unsaturated monomers Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02. 1977 	A12-L05	Electrophotography and thermography Prior to 1970 see A12-L01, A12-L02 and A12-L appropriately. 1970
A12-L02D	<ul style="list-style-type: none"> Radiation sensitive compositions containing unsaturated polymers Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02. 1977 	A12-L05A	<ul style="list-style-type: none"> Thermography Prior to 1977 see A12-L05. 1977
A12-L02E	<ul style="list-style-type: none"> Other radiation sensitive polymer compositions Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02. 1977 	A12-L05B	<ul style="list-style-type: none"> Photoconductive polymers Prior to 1977 see A12-L05. 1977
A12-L02F	<ul style="list-style-type: none"> Compositions containing non-radiation sensitive polymer Excluding A12-L01; including mordants, acceptor layers, developers. Prior to 1986 see A12-L02. 1986 	A12-L05C	<ul style="list-style-type: none"> Electrophotographic toners and apparatus Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L05. 1977-1985
A12-L03	Other optical uses i.e. non-photographic; excluding electro-optical for which see A12-E11+; e.g. spectacle frames, lamp shades.	A12-L05C1	<ul style="list-style-type: none"> .. Equipment Prior to 1986 see A12-L05C. 1986
A12-L03A	<ul style="list-style-type: none"> Optical fibres, cables Including coatings, adhesives etc. Prior to 1986 see A12-L03. 1986 	A12-L05C2	<ul style="list-style-type: none"> .. Toners and carriers Prior to 1986 see A12-L05C. 1986
A12-L03B	<ul style="list-style-type: none"> Liquid crystal (devices) Prior to 1986 see the combination of codes A12-L03 and A12-E11. 1986 	A12-L05D	<ul style="list-style-type: none"> Binders and substrates Prior to 1977 see A12-L05. 1977
A12-L03C	<ul style="list-style-type: none"> Optically readable records Including laser recording devices, optical discs e.g. compact discs. Prior to 1986 see A12-L03. 1986 	A12-L	Others
A12-L03D	<ul style="list-style-type: none"> Optical filters 1994 <i>Previous code(s): A12-L03</i> 	A12-M	ION EXCHANGE RESINS, POLYELECTROLYTES
		A12-M	General ion exchange resins
		A12-M01	Acrylic polyelectrolytes, flocculants Prior to 1977 see A12-M 1977
		A12-M02	Other polyelectrolytes, flocculants Prior to 1977 see A12-M. 1977
		A12-M03	Ion exchange resins from aromatic olefinic (optionally substituted) (co)polymers Prior to 1977 see A12-M. 1977
		A12-M04	Ion exchange resins from other addition (co)polymers Excluding A12-M03. Prior to 1977 see A12-M. 1977

A12-M05	Ion exchange resins from other polymers; chelate resins Prior to 1977 see A12-M.	1977
A12-P	PACKAGING	
A12-P01	General	
A12-P01A	• (Wrapping) films and film laminates Optionally containing non-polymeric layers. Prior to 1986 see A12-P01.	1986
A12-P01B	• General container Indexed where three or more codes are required from the A12-P+ hierarchy. <i>Previous code(s): A12-P01</i>	1994
A12-P02	Bags and sacks Excluding blood bags for which see A12-V03B, handbags for which see A12-T.	
A12-P03	Closures	
A12-P04	Shrink packages	
A12-P05	Tanks, drums Including linings.	
A12-P06	Other containers	
A12-P06A	• Bottles, aerosol containers Prior to 1970 see A12-P06.	1970
A12-P06B	• Boxes, cartons, crates, rigid packs Prior to 1970 see A12-P06.	1970
A12-P06C	• Collapsible tubes, sachets, blister packs Prior to 1970 see A12-P06.	1970
A12-P07	Rope, cord, net, webbing, strapping	
A12-P	Other packaging accessories e.g. handles, labels.	
A12-R	BUILDING, CIVIL ENGINEERING	
A12-R01	General	
A12-R01A	• Concrete, cement, gypsum, mortar compositions and boards Prior to 1986 see A12-R01.	1986
A12-R02	Fittings i.e. fixtures e.g. baths, guttering.	
A12-R02A	• Windows, doors Including frames, seals; excluding A12-R04. Prior to 1986 see A12-R02.	1986

A12-R02B	• Solar panels, collectors, heat storage devices 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.	1986
A12-R03	Flooring	
A12-R04	Glazing, roof lighting e.g. skylights.	
A12-R05	Roofing Excluding roof lighting.	
A12-R06	Thermal and/or acoustic insulation; honeycomb structures 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.	
A12-R07	Walls, wall coverings and ceilings	
A12-R08	Sealants, grouts, caulking compositions 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.	
A12-R09	Compositions for roads, aircraft runways, paving	
A12-R	Others e.g. road signs and road paints.	
A12-S	'SEMI-FINISHED' MATERIALS	
A12-S01	Expanded polystyrene Including uses. The codes A04-C02+ are not additionally searchable.	
A12-S01A	• Compositions and foaming processes A11-B06+ is additionally coded for foaming processes. Prior to 1970 see A12-S01.	1970
A12-S02	Expanded polyurethane, general The codes A05-G+ are not additionally searchable.	
A12-S02A	• Foam-in-place, in-situ Prior to 1970 see A12-S02.	1970

A12-S02B	<ul style="list-style-type: none"> Compositions and general foam-forming Applied from the start of 1970 to the end of 1976 and was then discontinued. Prior to 1970 see A12-S02. 	A12-S04B	<ul style="list-style-type: none"> Building, civil engineering, insulation (acoustic and thermal) Excluding A12-S04C and A12-S04D. Prior to 1977 see A12-S04 and A12-S04A appropriately.
	1970-1976		1977
A12-S02C	<ul style="list-style-type: none"> Foaming processes Excluding A12-S02A. A11-B06+ is additionally coded. Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. 	A12-S04C	<ul style="list-style-type: none"> Packaging; agriculture Prior to 1977 see A12-S04 and A12-S04A appropriately.
	1977		1977
A12-S02D	<ul style="list-style-type: none"> Polyetherurethanes Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. 	A12-S04D	<ul style="list-style-type: none"> Fabrics, furniture, upholstery, furnishings, including decorative panels; toys; sports goods Prior to 1977 see A12-S04 and A12-S04A appropriately.
	1977		1977
A12-S02E	<ul style="list-style-type: none"> Other specific polyurethanes Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately. 	A12-S04E	<ul style="list-style-type: none"> Integral skin foams, floats, cables, electrical insulation Prior to 1977 see A12-S04 and A12-S04A appropriately.
	1977		1977
A12-S02F	<ul style="list-style-type: none"> Building, civil engineering, insulation (acoustic and thermal) Prior to 1986 see A12-S02 to A12-S02E appropriately. 	A12-S05	Fibres and textiles Applied from the start of Plasdoc to the end of 1969 and as then discontinued.
	1986		1966-1969
A12-S03	Expanded thermosets e.g. phenoplasts.	A12-S05A	<ul style="list-style-type: none"> Non-circular, hollow, tapered fibres Prior to 1970 see A12-S05.
			1970
A12-S04	Expanded polymers or general Excluding A12-S01+ to A12-S03. Including uses other than A12-S04B to A12-S04E.	A12-S05B	<ul style="list-style-type: none"> Conjugate fibres e.g. sea-island, side-by-side, sheath-core. Prior to 1970 see A12-S05.
			1970
A12-S04A	<ul style="list-style-type: none"> Foamable, expandable compositions, general Prior to 1970 see A12-S04. 	A12-S05C	<ul style="list-style-type: none"> Textured fibres e.g. crimped, bulked. Prior to 1970 see A12-S05.
	1970		1970
A12-S04A1	<ul style="list-style-type: none"> Foaming processes A11-B06+ is additionally coded. Prior to 1977 see A12-S04A. 	A12-S05D	<ul style="list-style-type: none"> Elastic fibres e.g. spandex. Prior to 1970 see A12-S05.
	1977		1970
A12-S04A2	<ul style="list-style-type: none"> Polyolefin compositions and foaming processes Prior to 1977 see A12-S04A. 	A12-S05E	<ul style="list-style-type: none"> Other fibres e.g. staple, monofil, fancy yarns. Prior to 1970 see A12-S05.
	1977		1970
A12-S04A3	<ul style="list-style-type: none"> Other addition and condensation resins compositions and foaming processes Excluding A12-S01+ to A12-S03; e.g. polyisocyanurates. Prior to 1977 see A12-S04A. 	A12-S05F	<ul style="list-style-type: none"> Woven fabrics Prior to 1970 see A12-S05.
	1977		1970
		A12-S05G	<ul style="list-style-type: none"> Non-woven fabrics; felts Prior to 1970 see A12-S05.
			1970
		A12-S05H	<ul style="list-style-type: none"> Knitted fabrics Prior to 1970 see A12-S05.
			1970

A12-S05J	<ul style="list-style-type: none"> Other fabrics e.g. net, pile, tufted. Prior to 1970 see A12-S05. 	1970	A12-S06A	<ul style="list-style-type: none"> Film production Including tubular. Prior to 1970 see A12-S06. 	1970
A12-S05K	<ul style="list-style-type: none"> Fibre forming compositions Prior to 1970 see A12-S05. 	1970	A12-S06B	<ul style="list-style-type: none"> Film treatment Includes welding, chemical etching and surface treatment. Prior to 1970 see A12-S06. 	1970
A12-S05L	<ul style="list-style-type: none"> Production of fibres Including drawing; see also A11-B02+, A11-B15+ and A11-C05+. Prior to 1970 see A12-S05. 	1970	A12-S06C	<ul style="list-style-type: none"> Having a laminated structure e.g. with metal foils. Prior to 1977 see A12-S06, A12-S06A and A12-S06B appropriately. 	1977
A12-S05M	<ul style="list-style-type: none"> Treatment of fibres, textiles, general Prior to 1970 see A12-S05. 	1970	A12-S06C1	<ul style="list-style-type: none"> Of polymeric films only Prior to 1986 see A12-S06C. 	1986
A12-S05N	<ul style="list-style-type: none"> Dyeing polyesters, polyamides or cellulose Prior to 1977 see A12-S05N. See also A11-A01 to A11-A01B appropriately. 	1977	A12-S06D	<ul style="list-style-type: none"> Made from mixtures of polymers Prior to 1977 see A12-S06, A12-S06A and A12-S06B appropriately. 	1977
A12-S05P	<ul style="list-style-type: none"> Dyeing other substrates Excluding A12-S05N. Prior to 1977 see A12-S05M. See also A11-A01 to A11-A01B appropriately. 	1977	A12-S07	Sheet Excluding reinforced, for which see A12-S08A.	
A12-S05Q	<ul style="list-style-type: none"> Printing Prior to 1977 see A12-S05M. See also A11-C04A. 	1977	A12-S07A	<ul style="list-style-type: none"> Laminated Prior to 1970 see A12-S07. 	1970
A12-S05R	<ul style="list-style-type: none"> Repellent, flame proofing, crease-resistant, pill resistant and durable press treatments (non-resinous) e.g. water, oil, insect. Prior to 1977 see A12-S05M. 	1977	A12-S08	Reinforced plastics See also A12-H02B.	
A12-S05S	<ul style="list-style-type: none"> Antistatic, surfactant, softener or lubricant treatments i.e. both resinous and non-resinous finishes. Prior to 1977 see A12-S05M. 	1977	A12-S08A	<ul style="list-style-type: none"> Sheets, panels, laminates Prior to 1970 see A12-S08. 	1970
A12-S05T	<ul style="list-style-type: none"> Other chemical treatments Non-resinous; including carbon fibre production. Prior to 1977 see A12-S05M 	1977	A12-S08B	<ul style="list-style-type: none"> Glass fibre reinforced Excluding A12-S08A; do not search A08-R04 unless novelty in glass fibre. Prior to 1970 see A12-S08. 	1970
A12-S05U	<ul style="list-style-type: none"> Physical and mechanical processes Prior to 1977 see A12-S05M. 	1977	A12-S08C	<ul style="list-style-type: none"> Other specific reinforcing materials e.g. carbon fibre. Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately. 	1977
A12-S05X	<ul style="list-style-type: none"> General fibre Indexed for the generic case. <p><i>Previous code(s): A12-S05</i></p>	1994	A12-S08D	<ul style="list-style-type: none"> Uses Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately. 	1977
A12-S06	Films i.e. self-supporting.		A12-S08D1	<ul style="list-style-type: none"> Mechanical engineering Prior to 1986 see A12-S08D. 	1986
			A12-S08D2	<ul style="list-style-type: none"> Electrical engineering Prior to 1986 see A12-S08D. 	1986
			A12-S08D3	<ul style="list-style-type: none"> Transport; military Prior to 1986 see A12-S08D. 	1986

A12-S08E	<ul style="list-style-type: none"> Thermoplastic reinforced composites Prior to 1986 see A12-S08 to A12-S08D appropriately. 	1986
A12-S08F	<ul style="list-style-type: none"> Fabric reinforced i.e. woven, non-woven or knitted of e.g. glass, aramid. Prior to 1986 see A12-S08 to A12-S08D appropriately. 	1986
A12-S09	Powders, granules Prior to 1977 see A12-S.	1977
A12-S09A	<ul style="list-style-type: none"> Formed by mechanical treatment e.g. cutting, grinding. Prior to 1986 see A12-S09. 	1986
A12-S10	Plastisols Prior to 1986 see A12-S.	1986
A12-S	Other semi-finished materials e.g. solutions; bulk-, dough-, sheet- and thick- moulding compounds (BMC, DMC, SMC, TMC), micro-gels.	
A12-T	TRANSPORT	
A12-T01	Tyres and tracks, inner tubes	
A12-T01A	<ul style="list-style-type: none"> Tyre-building equipment Prior to 1970 see A12-T01. 	1970
A12-T01B	<ul style="list-style-type: none"> Tyre design, studs e.g. tread. Prior to 1977 see A12-T01. 	1977
A12-T01C	<ul style="list-style-type: none"> Tyre cord (polymeric only); tyre cord adhesives (polymeric only) Prior to 1977 see A12-T01. 	1977
A12-T01D	<ul style="list-style-type: none"> Retreading, scrap recovery, disposal and use of old tyres Prior to 1977 see A12-T01. 	1977
A12-T02	Vehicle shells e.g. boat hulls.	
A12-T03	Other parts for rockets, space vehicles, jet engines and armaments Excluding A12-T01+ and A12-T02.	
A12-T03A	<ul style="list-style-type: none"> Fuels, explosives Prior to 1970 see A12-T03. 	1970
A12-T03B	<ul style="list-style-type: none"> Petroleum fuel additives Prior to 1977 see A12-T03A. 	1977
A12-T03C	<ul style="list-style-type: none"> Propellants, rocket fuels Prior to 1977 see A12-T03A. 	1977
A12-T03D	<ul style="list-style-type: none"> Military applications <i>Previous code(s): A12-T03</i> 	1994
A12-T03D1	<ul style="list-style-type: none"> Military applications (Offensive) e.g. weapons. 	1994
A12-T03D2	<ul style="list-style-type: none"> Military applications (Defensive) e.g. body armour (with A12-C02). 	1994
A12-T04	Other vehicle parts and accessories	
A12-T04A	<ul style="list-style-type: none"> Optical Prior to 1977 see A12-T04. 	1977
A12-T04B	<ul style="list-style-type: none"> Crash pads (excluding bumpers), fascia, insulation (acoustic and thermal), upholstery Prior to 1977 see A12-T04. 	1977
A12-T04C	<ul style="list-style-type: none"> Engine systems and associated components; electrical Excluding jet engines; e.g. exhaust systems, carburettors, gaskets, propeller shafts. Prior to 1986 see A12-T04. 	1986
A12-T04D	<ul style="list-style-type: none"> Other moulded parts, fittings Including bumpers. Prior to 1986 see A12-T04. 	1986
A12-T04E	<ul style="list-style-type: none"> Safety devices <i>Previous code(s): A12-T04</i> 	1994
A12-T05	Vehicle coatings, paints Prior to 1986 see A12-T.	1986
A12-T	Others e.g. pallets, travel goods, buoys.	
A12-V	MEDICAL, DENTAL, COSMETICS AND VETERINARY	
A12-V00V	Medical general	2002
A12-V01	Medicines, pharmaceuticals Prior to 1970 see A12-V.	1970
A12-V02	Prostheses e.g. artificial blood vessels. Prior to 1970 see A12-V.	1970

A12-V02A	<ul style="list-style-type: none"> Optical e.g. contact lenses; for spectacle lenses see A12-L02A, in addition; for spectacle frames see A12-L03. Prior to 1986 see A12-V02. 	1986	A12-V04C	<ul style="list-style-type: none"> Skin requisites e.g. barrier creams, lotions, powders etc; including nail varnish, lipstick. Prior to 1986 see A12-V04. 	1986
A12-V02B	<ul style="list-style-type: none"> Dental Including fillings, adhesives. Prior to 1986 see A12-V02. 	1986	A12-V	Others	
A12-V03	Equipment, splints, sutures Prior to 1970 see A12-V.	1970	A12-W	OTHER APPLICATIONS Excluding A12-A: to A12-V:.	
A12-V03A	<ul style="list-style-type: none"> Dressings; bandages; tampons; diapers Prior to 1977 see A12-V03. 	1977	A12-W01	Gramophone records	
A12-V03B	<ul style="list-style-type: none"> Respirators; oxygenating devices; blood handling apparatus and devices E.g. catheters. Prior to 1977 see A12-V03. 	1977	A12-W01A	<ul style="list-style-type: none"> Video discs Prior to 1986 see A12-W01. 	1986
A12-V03B1	<ul style="list-style-type: none"> Birth control devices Prior to 2006 see A12-V03B 	2006	A12-W02	Lubricants and functional fluids Including hydraulic fluids.	
A12-V03C	<ul style="list-style-type: none"> Dental, sterilisation and hygiene; testing, diagnosis and pathology Prior to 1977 see A12-V01, A12-V02, A12-V03 and A12-V appropriately. 	1977-1985	A12-W02A	<ul style="list-style-type: none"> Polymeric additives Prior to 1970 see A12-W02. 	1970
A12-V03C1	<ul style="list-style-type: none"> Dental; sterilisation and hygiene e.g. surgical gowns and masks. Prior to 1986 see A12-V03C. 	1986	A12-W03	Advertising and display	
A12-V03C2	<ul style="list-style-type: none"> Testing, diagnosis, pathology Including medical blood testing (with A12-V03B). Prior to 1986, see A12-V03C. 	1986	A12-W04	Agriculture, horticulture	
A12-V03D	<ul style="list-style-type: none"> Medical or surgical instrumentation and equipment Excluding A12-V03B, A12-V03C1 and A12-V03C2. Prior to 1986 see A12-V03. 	1986	A12-W04A	<ul style="list-style-type: none"> Growing areas, containers Including greenhouses, cloches, agricultural film, plant pots, mulches. Prior to 1986 see A12-W04. 	1986
A12-V04	Cosmetics, toilet requisites Including razor blades, wigs. Prior to 1970 see A12-V.	1970	A12-W04B	<ul style="list-style-type: none"> Culture media Including fertilisers, soil improvers, seed coatings. Prior to 1986 see A12-W04. 	1986
A12-V04A	<ul style="list-style-type: none"> Hair requisites e.g. shampoo, dyes, gels. Prior to 1986 see A12-V04. 	1986	A12-W04C	<ul style="list-style-type: none"> Protective chemicals Including bactericides, herbicides, fungicides, insecticides. Prior to 1986 see A12-W04. 	1986
A12-V04B	<ul style="list-style-type: none"> Dental e.g. toothpaste, dental floss. Prior to 1986 see A12-V04. 	1986	A12-W05	Encapsulated articles Excluding electrical goods for which see A12-E04; including microcapsules.	
			A12-W06	Paper compositions Excluding coatings for which see A12-B03+ and paper making machinery (e.g. belts, filters) for which see A12-H+.	
			A12-W06A	<ul style="list-style-type: none"> From non-cellulosic polymeric film, pulp or fibre Prior to 1977 see A12-W06. 	1977
			A12-W06B	<ul style="list-style-type: none"> Addition polymers Prior to 1977 see A12-W06. 	1977
			A12-W06C	<ul style="list-style-type: none"> Condensation polymers Prior to 1977 see A12-W06. 	1977

A12-W06D	. Natural polymers Excluding natural cellulose e.g. wood fibres. Prior to 1977 see A12-W06.	1977	A12-W10C	. Cementing, plugging, lining, consolidation Prior to 1986 see A12-W10.	1986
A12-W07	Printing; book binding		A12-W11	Chemical engineering, pollution control Prior to 1970 see A12-W.	1970
A12-W07A	. Printing plates produced non-photographically Prior to 1970 see A12-W07.	1970	A12-W11A	. Reverse osmosis; semi-permeable membranes Including ultrafilters. Prior to 1977 see A12-W11.	1977
A12-W07B	. Lithographic printing plates produced (electro)photographically Prior to 1977 see A12-W07A.	1977	A12-W11B	. Enzyme containing compositions; catalysts 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
A12-W07C	. Other printing plates produced (electro)photographically Prior to 1977 see A12-W07A.	1977	A12-W11C	. Nuclear engineering Prior to 1977 see A12-W11.	1977
A12-W07D	. Inks Prior to 1977 see A12-W07.	1977	A12-W11D	. Adsorption other than with ion exchange resins e.g. in pollution control. Prior to 1977 see A12-W11.	1977
A12-W07D1	.. Inkjet inks	2002	A12-W11E	. Pollution control using coagulants, flocculants or polyelectrolytes Prior to 1977 see A12-W11.	1977
A12-W07E	. Dyes and pigments for inks Where dye/pigment is novelty. Prior to 1977 see A12-W07.	1977	A12-W11F	. Other pollution control Prior to 1977 see A12-W11.	1977
A12-W07F	. Other printing equipment/processes e.g. equipment for book binding, printing blankets. Prior to 1977 see A12-W07.	1977	A12-W11G	. Heat exchangers, heat storage and heat transfer compositions, coolants, antifreeze Prior to 1986 see A12-W11 and A12-W12 appropriately.	1986
A12-W07F1	.. Thermal transfer systems <i>Previous code(s): A12-W07F</i>	1994	A12-W11H	. Polymer use in pigment/dye compositions of no other specified use Prior to 1986 see A12-W11.	1986
A12-W07F2	.. Printing substrates <i>Previous code(s): A12-W07F</i>	2007	A12-W11J	. Water treatment (compositions); scale inhibition; corrosion prevention Including pollution control treatment. Prior to 1986 see A12-W11 and A12-W12 appropriately.	1986
A12-W08	Musical instruments		A12-W11K	. Catalysts and supports Prior to 1986 see A12-W11B.	1986
A12-W09	Food Excluding packaging for which see A12-P+. Prior to 1970 see A12-W.	1970			
A12-W10	Mining, oil wells Prior to 1970 see A12-W.	1970			
A12-W10A	. Drilling mud or fluid Prior to 1986 see A12-W10.	1986			
A12-W10B	. Well stimulation, flooding, recovery, fracturing Prior to 1986 see A12-W10.	1986			

A12-W11L	<ul style="list-style-type: none"> (Immobilised) enzymes or microorganisms, microbiology Excluding detergents for which see A12-W12A or A12-W12B. Prior to 1986 see A12-W11B. 	1986
A12-W12	Miscellaneous compositions e.g. syntactic foams, fire-fighting. Prior to 1970 see A12-W.	1970
A12-W12A	<ul style="list-style-type: none"> Detergents for fibres/fabrics Including softeners. Prior to 1977 see A12-W12. 	1977
A12-W12B	<ul style="list-style-type: none"> Cleaning compositions Excluding A12-W12A. 	1977
A12-W12C	<ul style="list-style-type: none"> Surfactants Excluding A12-W12A and A12-W12B. Prior to 1977 see A12-W12. 	1977
A12-W12D	<ul style="list-style-type: none"> Electroplating additives; fluxes, metallurgy, ceramic uses Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-W12. 	1977-1985
A12-W12E	<ul style="list-style-type: none"> Electroplating bath additives Prior to 1986 see A12-W12D. 	1986
A12-W12F	<ul style="list-style-type: none"> Metallurgy Including fluxes, metal passivation agents. Secondary uses of produced metal are not coded. Prior to 1986, see A12-W12D. 	1986
A12-W12G	<ul style="list-style-type: none"> Ceramics, refractory compsns. Prior to 1986 see A12-W12D. 	1986
A12-W13	Super absorbents	2002
A12-W14	Nanotechnology Excludes resists.	2007
A12-W15	Controlled Release	2010
A12-W16	Renewable Energy	2010
A12-W17	Wearable Technology Includes virtual reality.	2022
A12-W	Others e.g. coffins, watches.	
A99-A	Patents with minimal polymer content	2001

**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).

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

B01-C	RING 'A' MONOENES
B01-C01	Cortisones (3,11-dione; 17-ol; 17-Z)
B01-C02	Cortisols (3-one; 11,17-diol; 17-Z)
B01-C03	17-hydroxylprogesterones (3-one; 17-acetyl)
B01-C04	Progesterones (3-one; 17-acetyl)
B01-C05	Testosterones (3-one; 17-ol)
B01-C06	Pregn(3 or 4)enes (17-Y)
B01-C07	Pregn(1 or 2)enes (17-Y)
B01-C08	Pregn(5(10) or 1(10))enes (17-Y)
B01-C09	Androst(3 or 4)enes
B01-C10	Androst(1 or 2)enes
B01-C11	Androst(5(10) or 1(10))enes
B01-D	SATURATED RING 'A'
B01-D01	Pregnanes (17-Y) Including cardenolides and digoxin.
B01-D02	Androstanes
B01-E	
B01-E	Steroids (no structure) 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.

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

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

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

B03-A	A and carotenoids <i>now coded B15-A00+</i>	retired end 2010
B03-B	B1 (thiamine) <i>now coded B15-B01+</i>	retired end 2010
B03-C	B2 (riboflavin) <i>now coded B15-B02+</i>	retired end 2010
B03-D	B6 (pyridoxine) <i>now coded B15-B06+</i>	retired end 2010
B03-E	B12 and cobalamine <i>now coded B15-B12+</i>	retired end 2010
B03-F	C (ascorbic acid) <i>now coded B15-C00+</i>	retired end 2010
B03-G	D (calciferol) <i>now coded B15-D00+</i>	retired end 2010
B03-H	E and tocopherols <i>now coded B15-E00+</i>	retired end 2010
B03-J	Vitamin K 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>	retired end 2010
B03-K	Vitamin P and others 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>	retired end 2010
B03-L	General <i>now coded B15-Z00</i>	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
B04-A01	Belladonna Including tropanes and scopolamines.
B04-A02	Cinchona Including quin(id)ines.
B04-A03	Ergot Including lysergic acid.
B04-A04	Opium Including morphines and morphinans from 198601 but excluding apomorphine.
B04-A05	Rauwolfia Including yohimbanes.
B04-A06	Xanthines i.e. 2,6-dioxapurines.
B04-A07	Plant extracts general 1963-1965
B04-A07A	<ul style="list-style-type: none"> • Other alkaloids 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. 1965

B04-A07A1	<ul style="list-style-type: none"> .. Vinca alkaloids Includes vincristine, vinblastine, vinorelbine and vindesine. 1965-1993
B04-A07B	<ul style="list-style-type: none"> • Derris e.g. rotenone. 1965
B04-A07C	<ul style="list-style-type: none"> • Pyrethrins 1965
B04-A07D	<ul style="list-style-type: none"> • Peat, straw, cereal, seeds, bran, whole plants, juice 1965-1993 <i>Now coded as: B04-A08, B04-A09</i>
B04-A07D1	<ul style="list-style-type: none"> .. Peat, humic acid 1986-1993 <i>Now coded as: B04-A09J</i>
B04-A07D2	<ul style="list-style-type: none"> .. Seeds, husks from seeds, seed meal, cereal, grain 1986-1993 <i>Now coded as: B04-A09F</i>
B04-A07D3	<ul style="list-style-type: none"> .. Wood shavings, bark, sawdust 1986-1993 <i>Now coded as: B04-A09G</i>
B04-A07D4	<ul style="list-style-type: none"> .. Grass, straw, hay, plant stems, sap produced by pressing Excluding B04-A07D3. 1986-1993 <i>Now coded as: B04-A09H</i>
B04-A07D5	<ul style="list-style-type: none"> .. Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture Excluding B04-A07D4. B11-A is also coded. 1986-1993 <i>Now coded as: B04-A08+, B04-A09A, B04-A09B, B04-A09D</i>
B04-A07E	<ul style="list-style-type: none"> • Glycosides, saponins 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. 1965
B04-A07F	<ul style="list-style-type: none"> • Plant extract general 1963-1993 <i>Now coded as: B04-A10</i>
B04-A07F1	<ul style="list-style-type: none"> .. Mushrooms, toadstools extracts 1986-1993 <i>Now coded as: B04-A10A</i>
B04-A07F2	<ul style="list-style-type: none"> .. Other plant extracts 1986-1993 <i>Now coded as: B04-A10B+, B04-A09C</i>

B04-A08 #	Plant divisions and whole plants general and other E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded B04-F08. <i>Previous code(s): B04-A07D</i>	1994
B04-A08A #	. Bryophytes e.g. liverworts and mosses. <i>Previous code(s): B04-A07D5</i>	1994
B04-A08A1 #	.. Marchantiophyta (liverworts)	2012
B04-A08A2 #	.. Bryophyta (mosses)	2012
B04-A08A3 #	.. Anthocerotophyta (hornworts)	2012
B04-A08B #	. Pteridophytes e.g. ferns. <i>Previous code(s): B04-A07D5</i>	1994
B04-A08B1 #	.. Psilotopsida	2012
B04-A08B2 #	.. Equisetopsida	2012
B04-A08B3 #	.. Marattiopsida	2012
B04-A08B4 #	.. Polypodiopsida	2012
B04-A08C #	. Spermatophytes <i>Previous code(s): B04-A07D5</i>	1994-2011
B04-A08C1 #	.. Gymnosperms e.g. conifers. <i>Previous code(s): B04-A07D5, now coded as B04-A08F+</i>	1994-2011
B04-A08C2 #	.. Angiosperms e.g. flowering plants, grass, dicotyledons and monocotyledons. <i>Previous code(s): B04-A07D5, now coded as B04-A08G+</i>	1994-2011
B04-A08D #	. Fungi (higher) e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. <i>Previous code(s): B04-A07D5</i>	1994
B04-A08D1 #	.. Ascomycota	2012
B04-A08D2 #	.. Basidiomycota	2012
B04-A08F #	. Gymnosperms <i>Previous code(s): B04-A07D5, B04-A08C1</i>	2012
B04-A08F1 #	.. Pinophyta (conifers)	2012
B04-A08F2 #	.. Ginkgophyta	2012
B04-A08F3 #	.. Cycadophyta (cycads)	2012
B04-A08F4 #	.. Gnetophyta	2012
B04-A08G #	. Angiosperms <i>Previous code(s): B04-A07D5, B04-A08C2</i>	2012
B04-A08G1 #	.. Monocots	2012
B04-A08G2 #	.. Dicots	2012
B04-A09 #	Plant parts general and other Plant parts derived from specific plant species are additionally coded in B04-A08. <i>Previous code(s): B04-A07D</i>	1994
B04-A09A #	. Leaves <i>Previous code(s): B04-A07D5</i>	1994
B04-A09B #	. Flowers and parts Excluding pollen. <i>Previous code(s): B04-A07D5</i>	1994
B04-A09C #	. Pollen <i>Previous code(s): B04-A07F, B04-B04C2</i>	1994
B04-A09D #	. Roots <i>Previous code(s): B04-A07D5</i>	1994
B04-A09F #	. Seeds, seed husks, seed meal, cereal, grain, nuts, bran <i>Previous code(s): B04-A07D2</i>	1994
B04-A09G #	. Wood, shavings, bark, sawdust <i>Previous code(s): B04-A07D3</i>	1994
B04-A09H #	. Straw, hay, stems, sap, plant resin includes propolis <i>Previous code(s): B04-A07D4</i>	1994
B04-A09J #	. Peat, humic acid <i>Previous code(s): B04-A07D1</i>	1994

B04-A09K #	. Fruit <i>Previous code(s): B04-A09</i>	2006	B04-B01B	. Fats, lanolin, lipids, glycolipids	1965
B04-A10 #	Plant extracts general and other 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. <i>Previous code(s): B04-A07F</i>	1994	B04-B01C	. Oils and waxes general	
B04-A10A #	. Fungal extracts e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. <i>Previous code(s): B04-A07F1</i>	1994	B04-B01C1	.. Vegetable oils and waxes e.g. sunflower, soy bean and cotton seed oil.	1986
B04-A10B #	. Leaf extracts <i>Previous code(s): B04-A07F2</i>	1994	B04-B01C2	.. Animal oils and waxes e.g. spermaceti, cod liver oil, honeycomb and beeswax.	1986
B04-A10C #	. Flower extracts and extracts from flower parts Excluding pollen. <i>Previous code(s): B04-A07F2</i>	1994	B04-B01C3	.. Mineral oils and waxes e.g. vaseline, petroleum liquid paraffin and synthetic oils.	1986
B04-A10D #	. Pollen extract <i>Previous code(s): B04-A07F, B04-B04C2</i>	1994	B04-B01D	. Other oil and wax derivatives 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
B04-A10F #	. Root extracts <i>Previous code(s): B04-A07F2</i>	1994	B04-B02	Microorganisms, hormones, enzymes general	1963-1965
B04-A10G #	. Seed, seed husk, seed meal, cereal, grain and nut extracts <i>Previous code(s): B04-A07F2</i>	1994	B04-B02A	. Gibberellins	1965
B04-A10H #	. Wood shaving, bark, sawdust extracts <i>Previous code(s): B04-A07F2</i>	1994	B04-B02B	. Microorganisms general <i>Now coded as: B04-F01</i>	1965-1993
B04-A10J #	. Straw, hay, stem and sap extracts <i>Previous code(s): B04-A07F2</i>	1994	B04-B02B1	.. Bacteria e.g. Staphylococcus, Bacillus, Rickettsia. <i>Now coded as: B04-F10+</i>	1986-1993
B04-A10K #	. Fruit extract <i>Previous code(s): B04-A10</i>	2006	B04-B02B2	.. Fungi e.g. Candida, Aspergillus, Streptomyces. <i>Now coded as: B04-F09+</i>	1986-1993
B04-A98	Patent with herbal composition	2012	B04-B02B3	.. Algae e.g. Spirella. <i>Now coded as: B04-F08</i>	1986-1993
B04-A99	Patent with hybrid plant	2012	B04-B02B4	.. Viruses <i>Now coded as: B04-F11</i>	1986-1993
B04-B	ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS		B04-B02B5	.. Others e.g. Mycoplasma. <i>Now coded as: B04-F06, B04-F07, B04-F10A4</i>	1986-1993
B04-B01	Oils, fats general	1963-1965			
B04-B01A	. Halogenated oils, waxes, etc.	1965			

B04-B02C	<ul style="list-style-type: none"> Enzymes general 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. <p style="text-align: right;">1965-1993</p> <p><i>Now coded as: B04-L01</i></p>
B04-B02C1	<ul style="list-style-type: none"> Coenzymes <p style="text-align: right;">1977-1993</p> <p><i>Now coded as: B04-L02</i></p>
B04-B02C2	<ul style="list-style-type: none"> Oxidoreductases <p style="text-align: right;">1977-1993</p> <p><i>Now coded as: B04-L03+</i></p>
B04-B02C3	<ul style="list-style-type: none"> Hydrolases e.g. chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodornase, collagenase, plasmin, plasminogen. <p style="text-align: right;">1977-1993</p> <p><i>Now coded as: B04-L05+</i></p>
B04-B02C4	<ul style="list-style-type: none"> Transferases <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-L04+</i></p>
B04-B02C5	<ul style="list-style-type: none"> Lyases <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-L06</i></p>
B04-B02C6	<ul style="list-style-type: none"> Isomerases <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-L07</i></p>
B04-B02C7	<ul style="list-style-type: none"> Ligases (synthetases) <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-L08</i></p>
B04-B02D	<ul style="list-style-type: none"> Hormones and steroids general 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. <p style="text-align: right;">1965-1993</p> <p><i>Now coded as: B04-J01, B04-J02, B04-J03, B04-J04, B04-J05</i></p>
B04-B02D1	<ul style="list-style-type: none"> Steroidal hormones (no complete structure) <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-J02</i></p>
B04-B02D2	<ul style="list-style-type: none"> Pancreatic hormones <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-J03+</i></p>
B04-B02D3	<ul style="list-style-type: none"> Thyroid and parathyroid hormone e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives. <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-J04+</i></p>

B04-B02D4	<ul style="list-style-type: none"> Pituitary gland hormones e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adreno-corticotrophic hormone (ACTH) corticotrophic, follicle stimulating (FSH), interstitial cell stimulating, prolactin, ammotrophin, somatotropin, thyroid stimulating, thyrotrophic, thyrotropin, vasopressin, chorionic gonadotropin, luteinising, growth and their derivatives. <p style="text-align: right;">1986-1993</p> <p><i>Now coded as: B04-J05+</i></p>
B04-B02E	<ul style="list-style-type: none"> Prostaglandins From 197501 prostaglandins are coded B04-B02E only, and no longer according to their chemical structure. <p style="text-align: right;">1975-1993</p> <p><i>Now coded as: B04-H03+</i></p>
B04-B03	<p>Nucleosides and nucleotides general 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.</p> <p style="text-align: right;">1965</p>
B04-B03A	<ul style="list-style-type: none"> Nucleosides e.g. Adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded B04-B03D. <p style="text-align: right;">1986</p>
B04-B03B	<ul style="list-style-type: none"> Nucleotides e.g. Adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded B04-B03E. <p style="text-align: right;">1986</p>
B04-B03C	<ul style="list-style-type: none"> Oligonucleotides This code is applied whenever the term "Oligonucleotide" is used in a patent, or otherwise to chains of 3 to 6 nucleotide units. <p style="text-align: right;">1994</p> <p><i>Previous code(s): B04-B04A1, B04-B03B</i></p>
B04-B03D	<ul style="list-style-type: none"> Modified nucleosides E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleosides. <p style="text-align: right;">2005</p> <p><i>Previous code: B04-B03A</i></p>

B04-B03E	<ul style="list-style-type: none"> Modified nucleotides E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleotides. <i>Previous code: B04-B03B</i> 	2005	B04-B04C	<ul style="list-style-type: none"> Antigens, general Antibody (pre-1994) <i>Previous code(s): B04-G01</i> 	1965
B04-B03F	<ul style="list-style-type: none"> Modified oligonucleotides Compounds where the only modification is one or more deoxyribose sugars are searched as oligonucleotides. 	2018	B04-B04C1	<ul style="list-style-type: none"> Microbial antigen When used as a vaccine then B02-V02 is coded (before 1994) or B14-S11+ (from 1994). 	1986
B04-B04	Animal extract general	1963-1965	B04-B04C2	<ul style="list-style-type: none"> Other antigens Material which is antigenic is also coded. 	1986
B04-B04A	<ul style="list-style-type: none"> Proteins, nucleic acids, cells general For antigens see B04-B04C. 	1965-1993	B04-B04C3	<ul style="list-style-type: none"> Microbial antibody <i>Now coded as: B04-G07, B04-G08, B04-G09</i> 	1986-1993
B04-B04A1	<ul style="list-style-type: none"> DNA, vector DNA, RNA, nucleic acids. <i>Now coded as: B04-E02+, B04-E03+, B04-E04, B04-E05, B04-E06, B04-E07, B04-E08</i> 	1986-1993	B04-B04C4	<ul style="list-style-type: none"> Anticancer antibody <i>Now coded as: B04-G05</i> 	1986-1993
B04-B04A2	<ul style="list-style-type: none"> Plant cells <i>Now coded as: B04-F08</i> 	1986-1993	B04-B04C5	<ul style="list-style-type: none"> Monoclonal antibody <i>Now coded as: B04-G21</i> 	1986-1993
B04-B04A3	<ul style="list-style-type: none"> Animal cells For blood cells see B04-B04D, microbial cells see B04-B02B. 	1986-1993	B04-B04C6	<ul style="list-style-type: none"> Other antibody including immunoglobulin and haemagglutinin <i>Now coded as: B04-G02, B04-G03, B04-G04, B04-G06, B04-G10, B04-G20, B04-G22</i> 	1986-1993
B04-B04A4	<ul style="list-style-type: none"> Proteins from plants and mushrooms e.g. gluten. 	1986-1993	B04-B04C7	<ul style="list-style-type: none"> Haptens A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule. <i>Previous code(s): B04-B04C</i> 	1994
B04-B04A5	<ul style="list-style-type: none"> Proteins from microorganisms <i>Now coded as: B04-N03+</i> 	1986-1993	B04-B04C8	<ul style="list-style-type: none"> Cancer antigen 	2005
B04-B04A6	<ul style="list-style-type: none"> Proteins from animals or insects e.g. gelatin, egg white, glycoproteins, gamma-globulins, silk. 	1986-1993	B04-B04C9	<ul style="list-style-type: none"> Allergen 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). 	2005
B04-B04B	<ul style="list-style-type: none"> Animal excrements general 	1965	B04-B04D	<ul style="list-style-type: none"> Blood and derivatives general 	1965
B04-B04B1	<ul style="list-style-type: none"> Urine <i>Previous code(s): B04-B04B</i> 	1994	B04-B04D1	<ul style="list-style-type: none"> Blood cells and derivatives Including leucocytes, erythrocytes, lymphocytes. These are not coded under B04-B04A3. <i>Now coded as: B04-F04</i> 	1986-1993
B04-B04B2	<ul style="list-style-type: none"> Faeces <i>Previous code(s): B04-B04B</i> 	1994			

B04-B04D2	.. Blood proteins Excluding blood factors. e.g. serum albumin, haemoglobin, fibrinogen (prior to 198601 see also B04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under B04-H19. 1986	B04-B04M1	.. Arthropod 2012
B04-B04D3	.. Blood factors e.g. clotting factors, thrombin (see also B04-B02C3 for prothrombin, fibrinogen). 1986-1993 <i>Now coded as: B04-H01, B04-H13, B04-H14, B04-H15, B04-H19</i>	B04-B04M2	.. Amphibian 2012
B04-B04D4	.. Blood serum, plasma Excluding B04-B04D2/3. 1986	B04-B04M3	.. Reptile 2012
B04-B04D5	.. Whole blood Excluding B04-B04D1 to B04-B04D4. 1986	B04-B04M4	.. Fish 2012
B04-B04E	. Bone, marrow, nails, teeth Includes skin, horn and hair as well as extracts. 1965	B04-B04M5	.. Avian 2012
B04-B04F	. Enzyme inhibitors 1965-1993 <i>Now coded as: B04-M01</i>	B04-B04M6	.. Trochozoa Includes annelids (worms) and molluscs. 2017
B04-B04G	. Gland extracts Includes saliva, snake venom and musk. 1965	B04-B04N	. Eggs 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. 2014
B04-B04H	. Organ extracts Including extracts from all body organs, such as heart, kidney, liver, placenta, nerve, brain, lung, pancreas, intestine, stomach 1965	B04-B04N1	.. Avian eggs 2015 <i>Previous code(s): B04-B04N</i>
B04-B04J	. Metabolic factors 1965-1993 <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>	B04-B04N2	.. Fish eggs, fish roe 2015
B04-B04K	. Milk Including derivatives. 1965	B04-B04N3	.. Eggs from other sources Includes insect and reptile eggs. 2015
B04-B04L	. Other mammalian extracts This code is used for mammalian extracts only (from 1994). For whole mammals see B04-P. 1965	B04-C	POLYMERS 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.
B04-B04M	. Other non-mammalian extracts This code is used for non-mammalian extracts only (from 1994). For whole animals see B04-P. 1965	B04-C01	Polypeptides general 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.
		B04-C01A	. 3 to 5 alpha amino acid residues 1986
		B04-C01B	. 6 to 10 alpha amino acid residues 1986
		B04-C01C	. 11 to 15 alpha amino acid residues 1986

B04-C01D	. 16 to 20 alpha amino acid residues 1986	B04-C02E	. Polysaccharides from animal, bird, reptile or arthropod 1986
B04-C01E	. 21 to 25 alpha amino acid residues 1986	B04-C02E1	.. Heparin (optionally modified) 1986
B04-C01F	. 26 to 30 alpha amino acid residues 1986	B04-C02E2	.. Chondroitin (optionally modified) 1986
B04-C01G	. 31 or more alpha amino acid residues This code also includes proteins of defined amino acid sequence. 1986	B04-C02E3	.. Chitin (optionally modified) The code B04-C02F can also be searched if chitin is obtained from fungal source. 1986
B04-C01H	. Modified and/or cyclic peptides 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	B04-C02E4	.. Hyaluronic acid (optionally modified) 2012
B04-C02	Polysaccharides general These must contain at least 7 sugar residues in sequence.	B04-C02F	. Polysaccharides from microbial sources Polysaccharide which is modified microbiologically can also be searched under the code for the original polysaccharide. 1986
B04-C02A	. Cellulose and derivatives 1986	B04-C02V	. Lipopolysaccharide 1994 <i>Previous code(s): B04-C02, B04-B01B</i>
B04-C02A1	.. Unmodified cellulose 1986	B04-C02X	. Oligosaccharides 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 not coded unless they are ring modified. 1994
B04-C02A2	.. Cellulose ethers e.g. carboxymethylcellulose. 1986	B04-C03	Polymers general
B04-C02A3	.. Cellulose esters e.g. cellulose acetate. 1986	B04-C03A	. Poly N-vinyl-lactams 1975
B04-C02B	. Starch, dextrin and derivatives 1986	B04-C03B	. Other addition 1975
B04-C02B1	.. Cyclodextrin and derivatives 1986	B04-C03C	. Polyethers Including thioethers and sulphides. 1975
B04-C02B2	.. Unmodified starch 1986	B04-C03D	. Natural, other condensation 1975
B04-C02B3	.. Modified starch Includes derivatives of starch such as carboxymethylstarch. 2010 <i>Previous code(s): B04-C02B</i>	B04-C03E #	. Dendrimers 2002
B04-C02B4	.. Dextrin 2012	B04-C03F	. Silicones 2005 <i>Previous code: B04-C03D</i>
B04-C02C	. Dextran 1986		
B04-C02D	. Polysaccharides from plant 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	B04-D	OTHER NATURAL PRODUCTS
		B04-D01	Sugars (mono- or disaccharides) This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition. Includes molasses.

B04-D01A	. Honey	2011	B04-E02D	. Encoding receptors	1994
B04-D02	Others Includes any other natural product not covered by other codes e.g. clay, minerals, etc		<i>Previous code(s): B04-B04A1</i>		
B04-D03	Biomass	1994	B04-E02E	. Encoding enzymes	1994
	<i>Previous code(s): B04-A07D, B04-A07F, B04-B02B, B04-B04B, B04-B04L, B04-B04M</i>		<i>Previous code(s): B04-B04A1</i>		
B04-E	NUCLEIC ACIDS Nucleic acids contain 7 or more nucleotide residues. E suffix is not appended to the codes in this section.	1994	B04-E02F	. Encoding other protein/polypeptide	1994
			<i>Previous code(s): B04-B04A1</i>		
B04-E01	Nucleic acid general and other This code covers only non-specific or general nucleic acids. It is not 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.	1994	B04-E02G	. Oncogene	2002
	<i>Previous code(s): B04-B04A1</i>		B04-E02H	. Encoding fusion protein	2002
B04-E01A	. DNA Deoxyribonucleic acid.	2018	B04-E02J	. Encoding antigens	2007
B04-E01B	. RNA Ribonucleic acid.	2018	<i>Previous code(s): B04-E02F</i>		
B04-E02	Altered DNA coding sequences 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.	1994	B04-E02K	. Encoding nucleic acid	2009
	<i>Previous code(s): B04-B04A1</i>		B04-E03	Other DNA coding sequences These codes cover wild type genes and their fragments, and include their RNA transcripts.	1994
B04-E02A	. Encoding antibodies	1994	<i>Previous code(s): B04-B04A1</i>		
	<i>Previous code(s): B04-B04A1</i>		B04-E03A	. Encoding antibodies	1994
B04-E02B	. Encoding modifiers of cell function and growth	1994	<i>Previous code(s): B04-B04A1</i>		
	<i>Previous code(s): B04-B04A1</i>		B04-E03B	. Encoding modifiers of cell function and growth	1994
B04-E02C	. Encoding hormones	1994	<i>Previous code(s): B04-B04A1</i>		
	<i>Previous code(s): B04-B04A1</i>		B04-E03C	. Encoding hormones	1994
			<i>Previous code(s): B04-B04A1</i>		
			B04-E03D	. Encoding receptors	1994
			<i>Previous code(s): B04-B04A1</i>		
			B04-E03E	. Encoding enzymes	1994
			<i>Previous code(s): B04-B04A1</i>		
			B04-E03F	. Encoding other protein/polypeptide	1994
			<i>Previous code(s): B04-B04A1</i>		
			B04-E03G	. Oncogene	2002
			B04-E03H	. Encoding fusion protein	2002-2008
			B04-E03J	. Encoding antigens	2007
			<i>Previous code(s): B04-E03F</i>		
			B04-E03K	. Encoding nucleic acid	2009

B04-E04	Promoters, enhancers, regulatory sequences, upstream activating sequences <i>Previous code(s): B04-B04A1</i> 1994	B04-E12	Reporter/marker nucleic acid 2015
B04-E05	Primers, probes 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 and B12-K04G2A. <i>Previous code(s): B04-B04A1</i> 1994	B04-E13	CRISPR 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. 2015
B04-E06	Antisense sequences Excluding antisense probes. <i>Previous code(s): B04-B04A1</i> 1994	B04-E14	Bacterial nucleic acid 2021
B04-E07	Other non-coding sequences This code includes ribozyme, ribosomal, transfer and mitochondrial nucleic acids. <i>Previous code(s): B04-B04A1</i> 1994	B04-E15	Viral nucleic acid 2021
B04-E07A	. Ribozyme An RNA molecule that has catalytic activity. 2005	B04-E16	Fungal nucleic acid 2022
B04-E07B	. DNAzyme A DNA molecule that has catalytic activity. 2005	2021B04-E99	Patent with Geneseq record 2008
B04-E07C	. siRNA (short interfering RNA) Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction. 2005	B04-F	CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS 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. 1994
B04-E07D	. miRNA Micro RNA. 2005	B04-F01 #	Cells, microorganisms, transformants, hosts, cell lines, tissue general <i>Previous code(s): B04-B02B, B04-B04A, B04-B04D1</i> 1994
B04-E07E	. shRNA (small hairpin RNA) 2006	B04-F02 #	Mammal (including human) <i>Previous code(s): B04-B04A3</i> 1994
B04-E07F	. Aptamer 2007	B04-F02A #	. Cancer cells/Carcinoma 2002
B04-E08	Vectors, plasmids, cosmids, transposons Viral vectors are also coded under virus (B04-F11). <i>Previous code(s): B04-B04A1</i> 1994	B04-F02B #	. Stem cells Cell that can replicate indefinitely and differentiate into other cells. 2005
B04-E09	Single Nucleotide Polymorphism (SNP) 2002	B04-F02C #	. Progenitor cells Cell that is more advanced than a stem cell, giving rise to a distinct cell lineage. 2017
B04-E10	Peptide nucleic acid 2002	B04-F03 #	Sperm, ova (germ cells) <i>Previous code(s): B04-B02D</i> 1994
B04-E11	Other analog nucleic acid 2002	B04-F04 #	Blood cells (general) 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> 1994
		B04-F04A #	. Red blood cells <i>Previous code(s): B04-F04</i> 2006

B04-F04B #	. White blood cells (general) 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>	2006	B04-F08 #	Plant/algae <i>Previous code(s): B04-B04A2, B04-B02B3</i>	1994
B04-F04B1 #	.. Lymphocytes <i>Previous code(s): B04-F04</i>	2006	B04-F08A #	. Algae Includes diatoms.	2008
B04-F04B1A	... T-lymphocytes <i>Previous code(s): B04-F04</i>	2006	B04-F09 #	Yeast/fungus general and other <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B1B	... B-lymphocytes <i>Previous code(s): B04-F04</i>	2006	B04-F09A #	. Aspergillus e.g. A. nidulans, A. fumigatus, A. flavus, A. niger, A. oryzae. <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2 #	.. Other white blood cells <i>Previous code(s): B04-F04</i>	2006	B04-F09B #	. Neurospora e.g. N. crassa. <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2A	... Dendritic cells <i>Previous code(s): B04-F04</i>	2006	B04-F09C #	. Saccharomyces e.g. S. pombe, S. cerevisiae (brewer's yeast). <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2B	... Macrophages <i>Previous code(s): B04-F04</i>	2006	B04-F09D #	. Pichia e.g. Pichia pastoris	2005
B04-F04B2C	... Neutrophils <i>Previous code(s): B04-F04</i>	2006	B04-F09E #	. Multicellular fungi, non-higher	2005
B04-F04B2D	... Others <i>Previous code(s): B04-F04</i>	2006	B04-F10 #	Bacteria general <i>Previous code(s): B04-B02B1</i>	1994
B04-F05 #	Hybridoma <i>Previous code(s): B04-B04A3</i>	1994	B04-F10A #	. Gram-negative genera, general and other	1994
B04-F05A #	. Chimeric & fused cells Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under B04-F05. 2005	2005	B04-F10A1 #	.. Bordetella e.g. B. pertussis. <i>Previous code(s): B04-B02B1</i>	1994
B04-F06 #	Protozoa <i>Previous code(s): B04-B02B5</i>	1994	B04-F10A2 #	.. Borrelia <i>Previous code(s): B04-B02B1</i>	1994
B04-F07 #	Other animal <i>Previous code(s): B04-B04A3</i>	1994	B04-F10A3 #	.. Escherichia e.g. E. coli. <i>Previous code(s): B04-B02B1</i>	1994
B04-F07A #	. Arthropod	2002	B04-F10A4 #	.. Mycoplasma e.g. M. pneumoniae, M. mycoides. <i>Previous code(s): B04-B02B</i>	1994
B04-F07B #	. Amphibian	2002	B04-F10A5 #	.. Neisseria e.g. N. gonorrhoeae, N. meningitidis. <i>Previous code(s): B04-B02B1</i>	1994
B04-F07C #	. Reptile	2002			
B04-F07D #	. Fish	2002			
B04-F07E #	. Avian	2006			

B04-F10A6 #	.. Pseudomonas e.g. <i>P. aeruginosa</i> , <i>P. mallei</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-F11B #	. RNA virus general Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced.	2005
B04-F10A7 #	.. Rickettsia e.g. <i>R. prowazekii</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-F11B1 #	.. Retrovirus	2007
B04-F10A8 #	.. Salmonella e.g. <i>S. typhi</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-F11B2 #	.. Coronavirus Coronavirus, including COVID-19.	2021
B04-F10A9 #	.. Vibrio e.g. <i>V. cholerae</i> , <i>V. parahaemolyticus</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-F12 #	Minicells & organelles E.g. mitochondria and any sub-cellular particle.	2005
B04-F10B #	. Gram-positive genera, general and other <i>Previous code(s): B04-B02B1</i>	1994	B04-F13 #	Platelets	2010
B04-F10B1 #	.. Bacillus e.g. <i>B. subtilis</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-G	ANTIBODY DEFINED IN TERMS OF ANTIGEN E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology.	1994
B04-F10B2 #	.. Mycobacteria e.g. <i>M. tuberculosis</i> , <i>M. bovis</i> , <i>M. leprae</i> , <i>M. phlei</i> , BCG. <i>Previous code(s): B04-B02B1</i>	1994	B04-G01 #	General and other Also includes general and unspecified immunoglobulins (specific immunoglobulins may be searched under the heading B04-G27) <i>Previous code(s): B04-B04C</i>	1994
B04-F10B3 #	.. Staphylococcus e.g. <i>S. aureus</i> , <i>S. epidermidis</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-G01A	. Chimeric antibody An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.	2005
B04-F10B4 #	.. Streptococcus e.g. <i>S. pyogenes</i> , <i>S. faecalis</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-G01B #	. Human antibody An antibody produced from a single human cell line.	2005
B04-F10B5 #	.. Streptomyces e.g. <i>S. griseus</i> , <i>S. scabies</i> . <i>Previous code(s): B04-B02B1</i>	1994	B04-G01C	. Humanised antibody An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response.	2005
B04-F11 #	Viruses Including bacteriophage lambda and viral vectors. <i>Previous code(s): B04-B02B4</i>	1994	B04-G01D #	. Murine antibody An antibody produced from a single mouse cell line.	2005
B04-F11A #	. DNA virus general Virus that infects foreign DNA into host cell, which then produces viral protein.	2005			
B04-F11A1 #	.. Adenovirus Includes adeno-associated virus.	2007			

B04-G02 #	Antimodifier of cell function and growth, antihormone antibody <i>Previous code(s): B04-B04C6</i>	1994	B04-G22 #	Polyclonal antibodies 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>	1994
B04-G03 #	Antienzyme antibody <i>Previous code(s): B04-B04C6</i>	1994	B04-G23 #	Antibody fragments	2006
B04-G04 #	Antireceptor antibody <i>Previous code(s): B04-B04C6</i>	1994	B04-G24 #	Bispecific antibodies	2006
B04-G05 #	Anticancer cell antibody <i>Previous code(s): B04-B04C4</i>	1994	B04-G25 #	Anti-prion protein antibody	2008
B04-G06 #	Antiblood cells antibody e.g. antibody to T-cell, B-cell. <i>Previous code(s): B04-B04C6</i>	1994	B04-G26 #	Heterospecific antibody 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.	2016
B04-G07 #	Antibacteria antibody <i>Previous code(s): B04-B04C3</i>	1994	B04-G27	Immunoglobulins (specific) Only specific immunoglobulins are covered within this coding section. General and unspecified immunoglobulins should be searched using B04-G01.	2016
B04-G08 #	Antivirus antibody <i>Previous code(s): B04-B04C3</i>	1994	B04-G27A #	. Immunoglobulin A May be searched in conjunction with additional codes from B04-G.	2016
B04-G09 #	Antimicroorganisms (other) antibody <i>Previous code(s): B04-B04C3</i>	1994	B04-G27D #	. Immunoglobulin D May be searched in conjunction with additional codes from B04-G.	2016
B04-G09A #	. Antifungus antibody	2008	B04-G27E #	. Immunoglobulin E May be searched in conjunction with additional codes from B04-G.	2016
B04-G09B #	. Antiprotozoal antibody	2008	B04-G27G #	. Immunoglobulin G May be searched in conjunction with additional codes from B04-G.	2016
B04-G10 #	Antiplant antibody <i>Previous code(s): B04-B04C6</i>	1994	B04-G27M #	. Immunoglobulin M May be searched in conjunction with additional codes from B04-G.	2016
B04-G11 #	Antibody binding to another antibody Also includes anti-idiotypic antibody.	2006	B04-G27W #	. Immunoglobulin W Found in sharks and skates; related to mammalian IgD. May be searched in conjunction with additional codes from B04-G.	2021
B04-G12 #	Antiparasitic antibody Antibody acting against parasitic organisms/any kind of parasites other than bacteria, virus, fungi, protozoa.	2011			
B04-G20 #	Catalytic antibodies 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>	1994			
B04-G21 #	Monoclonal antibody 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>	1994			

B04-G27Y #	. Immunoglobulin Y May be searched in conjunction with additional codes from B04-G. 2020
B04-H	MODIFIERS OF CELL FUNCTION AND GROWTH 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. 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
B04-H01 #	Modifier of cell function and growth general and other 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. 1994 <i>Previous code(s): B02-V03, B04-B02C, B04-B02E, B04-B04A, B04-B04D, B04-C01</i>
B04-H02 #	Interleukins general and other 1994 <i>Previous code(s): B04-C01G</i>
B04-H02A #	. Interleukin 1 1994 <i>Previous code(s): B04-C01G</i>
B04-H02B #	. Interleukin 2 1994 <i>Previous code(s): B04-C01G</i>
B04-H02C #	. Interleukin 3 (Multi-CSF) 1994 <i>Previous code(s): B04-C01G</i>
B04-H02D #	. Interleukin 4 1994 <i>Previous code(s): B04-C01G</i>
B04-H02F #	. Interleukin 5 1994 <i>Previous code(s): B04-C01G</i>
B04-H02G #	. Interleukin 6 1994 <i>Previous code(s): B04-C01G</i>

B04-H02H #	. Interleukin 7 1994 <i>Previous code(s): B04-C01G</i>
B04-H02J #	. Interleukin 8 (NAP "Neutrophil Activating Protein") 1994 <i>Previous code(s): B04-C01G, B04-B04A</i>
B04-H02K #	. Interleukin 9 1994 <i>Previous code(s): B04-C01G</i>
B04-H02L #	. Interleukin 10 1994 <i>Previous code(s): B04-C01G</i>
B04-H02M #	. Interleukin 11 1994 <i>Previous code(s): B04-C01G</i>
B04-H02N #	. Interleukin 12 1994 <i>Previous code(s): B04-C01G</i>
B04-H02P #	. Interleukin 13 1994 <i>Previous code(s): B04-C01G</i>
B04-H02Q #	. Interleukins 14-20 2006 <i>Previous code(s): B04-H02</i>
B04-H02R #	. Interleukins 21-25 2006 <i>Previous code(s): B04-H02</i>
B04-H02S #	. Interleukins 26-30 2006 <i>Previous code(s): B04-H02</i>
B04-H02T #	. Interleukins 31-35 2006 <i>Previous code(s): B04-H02</i>
B04-H03	Prostaglandins general and other 1994 <i>Previous code(s): B04-B02E</i>
B04-H03A	. Prostaglandin E1 1994 <i>Previous code(s): B04-B02E</i>
B04-H03B	. Prostaglandin E2 1994 <i>Previous code(s): B04-B02E</i>
B04-H03C	. Prostaglandin F2 alpha 1994 <i>Previous code(s): B04-B02E</i>
B04-H03D	. Prostacyclin (Prostaglandin I2) 1994 <i>Previous code(s): B04-B02E, B06-A02</i>
B04-H03F	. Leukotrienes 1994 <i>Previous code(s): B04-B02E, B07-A03, B10-B02D, B10-C04D</i>

B04-H03G	. Thromboxanes <i>Previous code(s): B04-B02E, B06-A02, B07-A02</i>	1994	B04-H06G #	. FGF (Fibroblast Growth Factor) <i>Previous code(s): B04-B04J</i>	1994
B04-H04 #	CSFs (Colony Stimulating Factors) General and other <i>Previous code(s): B04-B04J</i>	1994	B04-H06H #	. Somatomedins, sulphation factors This code includes IGF's (Insulin-like growth factors). <i>Previous code(s): B04-B04J</i>	1994
B04-H04A #	. G-CSF (Granulocyte Colony Stimulating Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H06J #	. PGF (Prostatic Growth Factor) <i>Previous code(s): B04-B04J</i>	1994
B04-H04B #	. M-CSF (Macrophage Colony Stimulating Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H06K #	. HGF (Hepatocyte Growth Factor) <i>Previous code(s): B04-B04J</i>	1994
B04-H04C #	. GM-CSF (Granulocyte Macrophage Colony Stimulating Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H06L #	. Bone morphogenetic protein	2002
B04-H04D #	. MEG-CSF (Megakaryocyte Colony Stimulating Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H06M #	. Vascular endothelial growth factor Also known as VEGF. <i>Previous code(s): B04-H06</i>	2006
B04-H05 #	Interferons General and other <i>Previous code(s): B02-V03</i>	1994	B04-H07 #	Erythropoietin (Epo), thrombopoietin <i>Previous code(s): B04-B04A6, B04-B02D, thrombopoietin B04-H06 (pre-2010)</i>	1994, 2010
B04-H05A #	. Interferon alpha <i>Previous code(s): B02-V03</i>	1994	B04-H08 #	TNF (Tumour Necrosis Factor) <i>Previous code(s): B04-B04J</i>	1994
B04-H05B #	. Interferon beta <i>Previous code(s): B02-V03</i>	1994	B04-H09 #	LIF (Leukemia inhibitory factor) <i>Previous code(s): B04-B04J</i>	1994
B04-H05C #	. Interferon gamma <i>Previous code(s): B02-V03</i>	1994	B04-H10 #	Mullerian inhibitory substance (MIS) <i>Previous code(s): B04-B04J</i>	1994
B04-H06 #	Growth factors general and other <i>Previous code(s): B04-B04J</i>	1994	B04-H11 #	MIP (Macrophage inflammatory protein) <i>Previous code(s): B04-B04A6</i>	1994
B04-H06A #	. EGF (Epidermal Growth Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H12 #	Megakaryocyte potentiator <i>Previous code(s): B04-B04A6, B04-B04J</i>	1994
B04-H06B #	. PDGF (Platelet Derived Growth Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H13 #	Lymphotoxin (LT) <i>Previous code(s): B04-B04A6, B04-B04D3, B04-B04J</i>	1994
B04-H06C #	. MDGF (Macrophage Derived Growth Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H14 #	PAF (Platelet activating factor) <i>Previous code(s): B04-B04D3, B04-B04J</i>	1994
B04-H06D #	. NGF (Nerve Growth Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H15 #	PA (Plasminogen Activator) <i>Previous code(s): B04-B02C3, B04-B04D3</i>	1994
B04-H06F #	. TGF (Transforming Growth Factor) <i>Previous code(s): B04-B04J</i>	1994	B04-H16 #	SCF (Stem Cell Factor) <i>Previous code(s): B04-B04J</i>	1994

B04-H17 #	T-Activin (TA, Thymic factor) 1994 <i>Previous code(s): B04-B04A6, B04-B04J</i>	B04-H20C1 #	.. Actin 2002
B04-H18 #	Activin A (EDF "Erythroid differentiation factor") 1994 <i>Previous code(s): B04-B04A6, B04-B04J</i>	B04-H20C2 #	.. Myosin 2002
B04-H19 #	Clotting factors 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 (antihaemophilic globulin (AHG), antihaemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihaemophilic factor B), Factor X (Stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinase), Factor XI (plasma thromboplastin antecedent (PTA), antihaemophilic 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. 1994 <i>Previous code(s): B04-B02C3, B04-B02D2, B04-B04D3, B04-C02B3</i>	B04-H20C3 #	.. Tropomyosin 2002
		B04-H21 #	Integrins 2002
		B04-J	HORMONES 1994
		B04-J01 #	Hormones general and other 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>
		B04-J02	Steroidal Hormones (No Structure) Includes all steroids where no structure is given. 1994 <i>Previous code(s): B04-B02D1</i>
		B04-J03 #	Pancreatic hormone general and other Including pancreatic polypeptide. 1994 <i>Previous code(s): B04-B02D2</i>
		B04-J03A #	. Insulin 1994 <i>Previous code(s): B04-B02D2</i>
		B04-J03B #	. Glucagon 1994 <i>Previous code(s): B04-B02D2</i>
		B04-J04 #	Thyroid and parathyroid general and other N.B. thyroxine is coded B10-B02E. 1994 <i>Previous code(s): B04-B02D3</i>
		B04-J04A #	. Calcitonin 1994 <i>Previous code(s): B04-B02D3</i>
		B04-J04B #	. Parathyroid hormone 1994 <i>Previous code(s): B04-B02D3</i>
		B04-J05 #	Pituitary gland hormones general and other Including prolactin and human growth hormone. 1994 <i>Previous code(s): B04-B02D4</i>
		B04-J05A #	. Oxytocin 1994 <i>Previous code(s): B04-B02D4</i>
B04-H20 #	Adhesion and Motor molecules general and other e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular adhesion molecule). 1994 <i>Previous code(s): B04-B04A6, B04-B04C2</i>		
B04-H20A #	. Fibronectin 1994 <i>Previous code(s): B04-B04A6</i>		
B04-H20B #	. Vitronectin 1994 <i>Previous code(s): B04-B04A6</i>		
B04-H20C #	. Muscle proteins general 2002		

B04-J05B #	<ul style="list-style-type: none"> ADH (Antidiuretic hormone) Also known as vasopressin <i>Previous code(s): B04-B02D4</i> 	1994	B04-J13 #	Cholecystokinin (CCK-PZ, Pancreozymin) <i>Previous code(s): B04-B02D</i>	1994
B04-J05D #	<ul style="list-style-type: none"> ACTH (Adrenocorticotrophic hormone, "adrenocorticotropin") <i>Previous code(s): B04-B02D4</i> 	1994	B04-J14 #	Tachykinins (Substance p = SP) <i>Previous code(s): B04-B02D</i>	1994
B04-J05F #	<ul style="list-style-type: none"> TSH (Thyroid Stimulating Hormone) <i>Previous code(s): B04-B02D4</i> 	1994	B04-J15 #	Neurotensin <i>Previous code(s): B04-B02D</i>	1994
B04-J05G #	<ul style="list-style-type: none"> MSH (Melanocyte stimulating hormone) <i>Previous code(s): B04-B02D4</i> 	1994	B04-J16 #	Ecdysone <i>Previous code(s): B04-B02D</i>	1994
B04-J05H #	<ul style="list-style-type: none"> Gonadotropins Including FSH (follicle stimulating hormone), LH (luteinising hormone) and HMG (human menopausal gonadotropin). <i>Previous code(s): B04-B02D4</i> 	1994	B04-J17 #	Juvenile hormone <i>Previous code(s): B04-B02D</i>	1994
B04-J05J #	<ul style="list-style-type: none"> STH (Somatotrophic growth hormone) <i>Previous code(s): B04-B02D4</i> 	1994	B04-J18 #	Angiotensin <i>Previous code(s): B04-B02D</i>	1994
B04-J06 #	CRH (Corticotropin-releasing hormone) Hormones covered by B04-J06 to B04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones. <i>Previous code(s): B04-B02D</i>	1994	B04-J19 #	Melanin concentrating hormone Also known as MCH, a 19 amino acid cyclic neuropeptide expressed mainly in the hypothalamus. <i>Previous code(s): B04-B02D, B04-J01</i>	2005
B04-J07 #	GN-RH (Gonadotropin-releasing hormone) LH-RH (Luteinising hormone-releasing hormone) <i>Previous code(s): B04-B02D</i>	1994	B04-J99 #	Prohormone e.g. progastrin, procalcitonin. To be coded in conjunction with the active form of the appropriate hormone. <i>Previous code(s): B04-B02D, B04-J01</i>	2018
B04-J08 #	TRH (Thyrotropin-releasing hormone) <i>Previous code(s): B04-B02D</i>	1994	B04-K	RECEPTORS	1994
B04-J09 #	GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor) <i>Previous code(s): B04-B02D</i>	1994	B04-K01 #	Receptor general and other 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. <i>Previous code(s): B04-B04A6</i>	1994
B04-J10 #	Somatostatin <i>Previous code(s): B04-B02D</i>	1994	B04-K01A #	<ul style="list-style-type: none"> Parasympathetic receptor (Cholinergic receptor) <i>Previous code(s): B04-B04A6</i> 	1994
B04-J11 #	Endorphins/enkephalins <i>Previous code(s): B04-B02D</i>	1994	B04-K01B #	<ul style="list-style-type: none"> Sympathetic receptor (Adrenergic receptor, alpha and beta) <i>Previous code(s): B04-B04A6</i> 	1994
B04-J12 #	Gastrin/Secretin/Motilin <i>Previous code(s): B04-B02D</i>	1994	B04-K01C #	<ul style="list-style-type: none"> Dopamine receptor <i>Previous code(s): B04-B04A6</i> 	1994
			B04-K01D #	<ul style="list-style-type: none"> Serotonin (5HT) receptor <i>Previous code(s): B04-B04A6</i> 	1994
			B04-K01F #	<ul style="list-style-type: none"> Histamine receptor <i>Previous code(s): B04-B04A6</i> 	1994

B04-K01G #	. Interleukin receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01H #	. Prostaglandin/leukotriene/thromboxane receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01J #	. Growth factor receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01K #	. Other modifier of cell function and growth receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01L #	. Steroid receptor e.g. mineralocorticoid, corticosteroid, oestrogen receptor.	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01L1 #	.. Androgen receptors	2005
B04-K01L2 #	.. Oestrogen receptors	2005
B04-K01L3 #	.. Corticosteroid receptors	2005
B04-K01L4 #	.. Other steroid receptors	2005
B04-K01M #	. Insulin receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01N #	. Angiotensin receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01P #	. Other hormone receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01Q #	. Lipoprotein (LDL, HDL) receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01R #	. Blood cell or blood cell antigen receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01S #	. Cancer cell or cancer cell antigen receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01T #	. Bacterial or bacterial antigen receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01U #	. Viral or viral antigen receptor	1994
	<i>Previous code(s): B04-B04A6</i>	

B04-K01V #	. Other cell, microbe or antigen receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01W #	. Antibody receptor	1994
	<i>Previous code(s): B04-B04A6</i>	
B04-K01X #	. Non-steroidal nuclear (hormone) receptor	2002
B04-K01X1 #	.. Peroxisome proliferator activated receptor (Orphan receptor) Also known as PPAR.	2005
B04-K01X2 #	.. Thyroid receptor	2005
B04-K01Y #	. G-protein coupled receptor	2002
B04-K01Y1 #	.. Melanin concentrating hormone receptor	2005
B04-K01Z #	. Enzyme receptor	2014
B04-L	ENZYMES Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature.	1994
B04-L01 #	Enzymes, catalytic proteins general and other	1994
	<i>Previous code(s): B04-B02C</i>	
B04-L02 #	Coenzymes	1994
	<i>Previous code(s): B04-B02C1</i>	
B04-L03 #	Oxidoreductases general and other	1994
	<i>Previous code(s): B04-B02C2</i>	
B04-L03A #	. Oxidases	1994
	<i>Previous code(s): B04-B02C2</i>	
B04-L03B #	. Peroxidases	1994
	<i>Previous code(s): B04-B02C2</i>	
B04-L03C #	. Oxygenases Including cytochrome P450.	1994
	<i>Previous code(s): B04-B02C2</i>	
B04-L03D #	. Dehydrogenases, reductases	1994
	<i>Previous code(s): B04-B02C2</i>	
B04-L03E #	. Lipooxygenases	2002

B04-L04 #	Transferases general and other <i>Previous code(s): B04-B02C4</i>	1994	B04-L08 #	Ligases Including synthetases, some carboxylases, aromatase. Excludes synthase. <i>Previous code(s): B04-B02C7</i>	1994
B04-L04A #	. DNA/RNA polymerases <i>Previous code(s): B04-B02C4</i>	1994	B04-L09 #	Zymogen and other enzyme precursors	2002
B04-L04B #	. Reverse transcriptase <i>Previous code(s): B04-B02C4</i>	1994	B04-L10 #	Translocase Enzymes in class EC7.	2020
B04-L04C #	. Kinases Any of several enzymes that catalyse the transfer of a phosphate group from ATP to a second substrate. <i>Previous code(s): B04-L04</i>	2005	B04-M	ENZYME INHIBITORS	1994
B04-L05 #	Hydrolases general and other Including beta-lactamases. <i>Previous code(s): B04-B02C3</i>	1994	B04-M01 #	Enzyme inhibitors general and other This code is used for enzyme inhibitors with no structure only. <i>Previous code(s): B04-B04F</i>	1994
B04-L05A #	. Esterases Including lipases, nucleases, restriction enzymes, sulphatases, phosphatases. <i>Previous code(s): B04-B02C3</i>	1994	B04-N	OTHER PROTEIN/POLYPEPTIDE 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 B04-L06 only.	1994
B04-L05A1 #	.. Phosphodiesterases	2005	B04-N01 #	Plant protein/polypeptide (No sequence) <i>Previous code(s): B04-B04A4, B04-C01</i>	1994
B04-L05A2 #	.. CRISPR system nucleases Nucleases specifically for application in CRISPR systems e.g. Cas9 and Cpf1.	2017	B04-N01A #	. Complete amino acid sequence given Codes B04-C01 to B04-C01G are also applied. <i>Previous code(s): B04-B04A4</i>	1994
B04-L05B #	. Glycosidases Including amylases, cellulases, lactases. <i>Previous code(s): B04-B02C3</i>	1994	B04-N01B #	. Fragments of amino acid sequence given <i>Previous code(s): B04-B04A4</i>	1994
B04-L05C #	. Proteases, peptide hydrolases Including chymotrypsin, trypsin, papain, fibrinolysin, collagenases, elastases. <i>Previous code(s): B04-B02C3</i>	1994	B04-N02 #	Animal protein/polypeptide (No sequence) <i>Previous code(s): B04-B04A6, B04-C01</i>	1994
B04-L05C1 #	.. Metalloproteases	2005	B04-N02A #	. Complete amino acid sequence given Codes B04-C01 to B04-C01G are also applied. <i>Previous code(s): B04-B04A6</i>	1994
B04-L06 #	Lyases Including adenyl cyclases, (de)carboxylases, aldolases, dehydratases. <i>Previous code(s): B04-B02C5</i>	1994	B04-N02B #	. Fragments of amino acid sequence given <i>Previous code(s): B04-B04A6</i>	1994
B04-L07 #	Isomerases Including racemases, tautomerases, epimerases, mutases. <i>Previous code(s): B04-B02C6</i>	1994	B04-N03 #	Microorganism protein/polypeptide (No sequence) <i>Previous code(s): B04-B04A5, B04-C01</i>	1994

B04-N03A #	<p>. Complete amino acid sequence given Codes B04-C01 to B04-C01G are also applied. 1994 <i>Previous code(s): B04-B04A5</i></p>	B04-N03K1 #	<p>.. Viral protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): B04-N03E</i></p>
B04-N03B #	<p>. Fragments of amino acid sequence given 1994 <i>Previous code(s): B04-B04A5</i></p>	B04-N03K2 #	<p>.. Viral protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): B04-N03F</i></p>
B04-N03C #	<p>. Bacterial protein/polypeptide with complete amino acid sequence Codes B04-C01 to B04-C01G are also applied. 2006-2010 <i>Now coded B04-N03J1</i></p>	B04-N03L #	<p>. Fungal protein/polypeptide (No sequence) 2011</p>
B04-N03D #	<p>. Bacterial protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>Now coded B04-N03J2</i></p>	B04-N03L1 #	<p>.. Fungal protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): B04-N03G</i></p>
B04-N03E #	<p>. Viral protein/polypeptide with complete amino acid sequence Codes B04-C01 to B04-C01G are also applied. 2006-2010 <i>Now coded B04-N03K1</i></p>	B04-N03L2 #	<p>.. Fungal protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): B04-N03H</i></p>
B04-N03F #	<p>. Viral protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>Now coded B04-N03K2</i></p>	B04-N04 #	<p>Protein/polypeptide of undefined origin (No sequence) 1994 <i>Previous code(s): B04-B04A, B04-C01</i></p>
B04-N03G #	<p>. Fungal protein/polypeptide with complete amino acid sequence Codes B04-C01 to B04-C01G are also applied. 2006-2010 <i>Now coded B04-N03L1</i></p>	B04-N04A #	<p>. Complete amino acid sequence given Codes B04-C01 to B04-C01G are also applied. 1994 <i>Previous code(s): B04-B04A</i></p>
B04-N03H #	<p>. Fungal protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>Now coded B04-N03L2</i></p>	B04-N04B #	<p>. Fragments of amino acid sequence given 1994 <i>Previous code(s): B04-B04A</i></p>
B04-N03J #	<p>. Bacterial protein/polypeptide (No sequence) 2011</p>	B04-N05 #	<p>Lipoprotein Also includes lipopeptides. 1994 <i>Previous code(s): B04-B04A, B04-B01B</i></p>
B04-N03J1 #	<p>.. Bacterial protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): B04-N03C</i></p>	B04-N06 #	<p>Glycoprotein, peptidoglycan and cytoskeletal proteins 1994 <i>Previous code(s): B04-B04A</i></p>
B04-N03J2 #	<p>.. Bacterial protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): B04-N03D</i></p>	B04-N07 #	<p>Ion channel protein 2002</p>
B04-N03K #	<p>. Viral protein/polypeptide (No sequence) 2011</p>	B04-N08	<p>Fusion protein 2002</p>
		B04-N09 #	<p>Molecular chaperones and chaperonins E.g. Heat shock proteins (HSP). 2005 <i>Previous code(s): B04-N01, B04-N02, B04-N04</i></p>
		B04-N10	<p>Prions Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep. 2005 <i>Previous code: B04-N02</i></p>

B04-N11 #	Zinc finger proteins Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins. 2005 <i>Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04</i>	
B04-N12 #	Transcription factors general A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription. 2005 <i>Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04</i>	
B04-N13 #	Signalling pathway proteins 2006	
B04-N14	Peptidomimetics 2008	
B04-N15	Crystalline form Used in conjunction with other specific protein codes for protein crystals. 2010	
B04-N16	Biomarker protein 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. 2017	
B04-P	WHOLE ANIMALS E suffix is appended to respective whole animal codes for transgenic animals. 1994	
B04-P01 #	Whole animals general and other 1994 <i>Previous code(s): B04-B04L, B04-B04M</i>	
B04-P01A #	Laboratory experimental animals e.g. mice, rats. 1994 <i>Previous code(s): B04-B04L, B04-B04M</i>	
B04-P01B #	Farm animals e.g. cows, sheep. 1994 <i>Previous code(s): B04-B04L, B04-B04M</i>	
B04-P01C #	Arthropods 1994 <i>Previous code(s): B04-B04M</i>	
B04-Q	DRUG CONJUGATES GENERAL All portions of the conjugate are additionally coded in the relevant sections. 2013	
B04-Q01	Antibody-drug conjugates The antibody is additionally coded in section B04-G. 2013	
B04-Q02	Other protein/peptide drug conjugates The protein / peptide is also coded in the appropriate section(s) of B04. 2013	
B04-Q03	Synthetic polymer-drug conjugates Also includes drug conjugates with polysaccharides. The polymer/ polysaccharide is additionally coded in B04. 2013	
B04-Q04	Nucleic acid-drug conjugates The nucleic acid is additionally coded in section B04-B03 and/or B04-E. 2017	
B04-R	BIOSIMILARS Includes biobetters. Search in conjunction with relevant B-code(s) for the biosimilar product. Applicable only for explicitly claimed biosimilars. 2016	

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.).

B05-A	METALS AND COMPOUNDS
B05-A01	Group 1, 2, 3 general retired subheading, may not be applied in B 1963-1965
B05-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 hypokalaemia). 1965
B05-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
B05-A02	Group 4a, 5a excluding C, Si, N, P, As
B05-A03	Transition metals, lanthanides and actinides general 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.
B05-A03A	. Manganese (Mn), iron (Fe), copper (Cu), zinc (Zn), mercury (Hg) 1975
B05-A03A1	.. Manganese (Mn) compounds 2005

B05-A03A2	.. Iron (Fe) compounds 2005
B05-A03A3	.. Copper (Cu) compounds 2005
B05-A03A4	.. Zinc (Zn) compounds 2005
B05-A03A5	.. Mercury (Hg) compounds 2005
B05-A03B	. Others 1975
B05-A03B1	.. Titanium 2008
B05-A03B2	.. Silver 2008
B05-A03B3	.. Platinum 2008 <i>Previous code(s): B05-A03B</i>
B05-A04	Radioactive elements and specific isotopes
B05-A04A	. Deuterium 2007
B05-A04B	. Tritium 2007
B05-A04C	. Carbon isotopes Excludes Carbon-12 2007
B05-A04D	. Iodine isotopes Excludes Iodine-127 2007
B05-A04E	. Other radioactive isotope 2007
B05-A04F	. Other non-radioactive isotope 2007
B05-A05	Alloys May be coded in conjunction with additional codes from B05-A when the constituent metals are known. 2018
B05-A06	Metal Chelates Both the metal and the chelating agent(s) are also coded. 2019
B05-B	LESS COMMON NON-METALS AND COMPOUNDS
B05-B01	Boron(B), silicon (Si), arsenic (As), selenium (Se), phosphorus (P) organic general 1963-1965
B05-B01A	. Boron (B) organic 1965
B05-B01B	. Silicon (Si) organic 1965
B05-B01C	. Arsenic (As) organic 1965

B05-B01D	. Selenium (Se), Tellurium (Te), organic	1965
B05-B01E	. P-C bond heterocyclic	1965
B05-B01F	. P-C bond aromatic	1965
B05-B01G	. P-C bond (cyclo)aliphatic	1965
B05-B01H	. P-Hal bond organic	1965
B05-B01J	. P-N bond heterocyclic	1965
B05-B01K	. P-N bond aromatic	1965
B05-B01L	. P-N bond (cyclo)aliphatic	1965
B05-B01M	. P-O(S) bond heterocyclic	1965
B05-B01N	. P-O(S) bond aromatic	1965
B05-B01P	. P-O(S) bond (cyclo)aliphatic	1965
B05-B02	B, Si, As, Se, P inorganic, inert gases	1963-1965
B05-B02A	. P and inorganic P compounds general 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
B05-B02A1	.. P acids production	1975
B05-B02A2	.. Ammonium salts of P acids This code is used also for mixtures containing only ammonium salts of P acids.	1975
B05-B02A3	.. P and inorganic P compounds	1975
B05-B02B	. Arsenic (As) inorganic	1965
B05-B02C	. Silicon (Si), selenium (Se), tellurium (Te), boron (B) inorganic, inert gases	1965
B05-C	MORE COMMON NON-METALS, COMPOUNDS	
B05-C	General	

B05-C01	N (ammonia) inorganic After CPI Week 7501 ammonium salts of phosphorus acids have been coded B05-B02A2.	1965
B05-C02	N (nitrate) inorganic	1965
B05-C03	N (others) inorganic	1965
B05-C04	CO ₂ , inorganic (bi)(thio)carbonates	1965
B05-C05	Inorganic S acids, S oxides	1965
B05-C06	Elemental C or S	1965
B05-C07	Inorganic compounds containing halogen 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
B05-C08	Others	1965
B05-U	FULLERENE TYPE CAGE STRUCTURES	1994
B05-U	General	1994
B05-U01	Other than carbon only	1994
B05-U02	Carbon only	1994
B05-U03	Carbon only nanotubes	2005
B05-U04	Carbon plus heteroatom nanotubes	2005
B05-U05	Other carbon containing 3-D structures	2005
B05-U05A	. Nanotubes, nanorods, nanohorns	2010
B05-U05B	. Nanofilms	2010
B05-U05C	. Nanostructures other than those covered by B05-U05A and B05-U05B	2010
B05-U06	Inorganic nanostructures	2005

B05-V	METALLOCENES	2008
B05-V	Metalloenes e.g. ferrocenes, titanocenes, zirconocenes <i>Previous code(s): B05+</i>	2008
B05-Z	ORGANOMETALS	2015
B05-Z	Organometal compounds Metals/metalloids present in organic compound, excludes B, Si, As, Se, Te and P. To be searched alongside specific codes for relevant metal(s).	2015

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.

B06-A	SOLE HETERO(S) OXYGEN
B06-A01	1-Benzo-(furan or pyran)
B06-A02	Others with 2 rings (e.g. phenolphthalein)
B06-A03	With more than 2 rings
B06-A03A	. Taxols, taxels e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton
2006, 2010	
B06-B	SOLE HETERO(S) SULPHUR
B06-B01	With 2 rings
B06-B02	With more than 2 rings
B06-C	SOLE HETEROS O AND S
B06-C	General
B06-D	SOLE HETERO(S) NITROGEN
B06-D01	Indole
B06-D02	Quinoline
B06-D03	Isoindole, isoquinoline
B06-D04	Others with 2 rings and one N
B06-D05	With 2 rings (5+6 membered) and two N
B06-D06	With 2 rings (both 6 membered) and two N
B06-D07	Others with 2 rings and two N
B06-D08	With 2 rings and 3 N
B06-D09	With 2 rings and 4 N
B06-D10	With 2 rings and > 4 N

B06-D11	Acridine
B06-D12	Dibenzo [b,f] azepine
B06-D13	Others with 3 rings and one N
B06-D14	Phenazine
B06-D15	Carbolines, phenanthrolines
B06-D16	Others with 3 rings and two N
B06-D17	With 3 rings and > 2N
B06-D18	With more than 3 rings
<hr/>	
B06-E	SOLE HETEROS O AND N
B06-E01	Benzoxazole, benzisoxazoles
B06-E02	Benzoxazines
B06-E03	Others with 2 rings
B06-E04	Phenoxazine
B06-E05	Others with more than 2 rings
<hr/>	
B06-F	SOLE HETEROS S AND N
B06-F01	Benzothiazole, benzisothiazoles
B06-F02	Benzothiazines
B06-F03	Others with 2 rings
B06-F04	Phenothiazine
B06-F05	Others with more than 2 rings
<hr/>	
B06-G	SOLE HETEROS O AND S AND N
B06-G	General
<hr/>	
B06-H	FUSED RING, GENERAL 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.
B06-H	General
<hr/>	
B06-S	SPIROFUSED FUSED HETEROCYCLES This code is to be applied in conjunction with specific ring code(s) from B06.
B06-S	Spirofused fused heterocycles

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.

B07-A	SOLE HETERO(S) OXYGEN
B07-A01	Furan excluding tetrahydrofuran
B07-A02	Tetrahydro-(furan or pyran) general
B07-A02A	. Tetrahydrofuran <i>Previous code(s): B07-A02</i>
	1994
B07-A02B	. Tetrahydropyran <i>Previous code(s): B07-A02</i>
	1994
B07-A03	Others with one O Including pyran.
B07-A04	With more than one O
<hr/>	
B07-B	SOLE HETERO(S) SULPHUR
B07-B01	Thiophene
B07-B02	Others with one S
B07-B03	Others with more than one S
<hr/>	
B07-C	SOLE HETEROS O AND S
B07-C	General
<hr/>	
B07-D	SOLE HETERO(S) NITROGEN
B07-D01	With one N, 3 or 4 membered
B07-D02	Pyrrole Excluding pyrrolidine.
B07-D03	Pyrrolidine
B07-D04	Pyridine general Excluding piperidine.
B07-D04A	. (Hydro)pyridinium N(V)
	1986

B07-D04B	. Pyridine (optionally substituted) production	1986
B07-D04C	. Pyridine (optionally substituted) use	1986
B07-D04D	. Di- and tetrahydropyridine (optionally substituted)	1986
B07-D05	Piperidine	
B07-D06	With one N, > 6-membered	
B07-D07	With > one N, < 5-membered	
B07-D08	Pyrazole	
B07-D09	Imidazole	
B07-D10	Pyr(id)azine Excluding piperazine.	
B07-D11	Piperazine	
B07-D12	Pyrimidine	
B07-D13	Others with more than one N	
B07-E	SOLE HETEROS O AND N	
B07-E01	With one O and one N < 6-membered	
B07-E02	Oxazines Excluding morpholine.	
B07-E03	Morpholine	
B07-E04	Others	
B07-F	SOLE HETEROS S AND N	
B07-F01	With one S and one N < 6-membered	
B07-F02	Thiazines	
B07-F03	Others	
B07-G	SOLE HETEROS O AND S AND N	
B07-G	General	
B07-H	MONONUCLEAR HETEROCYCLICS GENERAL 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.	
B07-H	Heterocyclic ring general	
B07-H01	Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN	1975
B07-H02	Ring linked directly to heteroatom	1975

B07-H03	Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN	1975
B07-H04	Other rings	1975
B07-S	SPIROFUSED MONOCYCLIC HETEROCYCLES This code is to be applied in conjunction with specific ring code(s) from B07.	
B07-S	Spirofused fused heterocycles	2011

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.

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

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

B10-A	RARER CHEMICAL GROUPS GENERAL Oxygen atoms may be replaced by S, where applicable.
B10-A01	Sulphonium, iodonium, free radicals, carbonium, oxonium, etc.
B10-A02	Halogen bonded to Hal, N or O 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 sulphenyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.
B10-A03	Nitrogen oxide, nitroso Includes nitramines
B10-A04	Peroxide, polysulphide Also includes hydroperoxides
B10-A05	Nitrate, nitrite
B10-A06	Quinone Including all derivatives except those with higher priority.
B10-A07	Sugar 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.
B10-A07A	<ul style="list-style-type: none"> Unmodified sugars Includes ethers and esters thereof. 7 or more carbons are coded B10-A07E.

2005

B10-A07B

- Sugar alcohols**
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.

2005

B10-A07C

- Sugar acids**
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.

2005

B10-A07D

- Sugar amines**
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.

2005

B10-A07E	<ul style="list-style-type: none"> Other sugar derivatives 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 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
B10-A08	Amide of sulphur acid	
B10-A09	Sulphur acid	1963-1965
B10-A09A	<ul style="list-style-type: none"> (Thio)Sulphuric(ous) acid Including all derivatives except those with higher priority. 	1965
B10-A09B	<ul style="list-style-type: none"> (Thio)Sulfonic acids general Including all derivatives except for those with higher priority. 	1965
B10-A09C	<ul style="list-style-type: none"> Other S acids Including all derivatives except those with higher priority. 	1965
B10-A10	Sulphone, sulfoxide	
B10-A11	Carbonate general	1963-1965
B10-A11A	<ul style="list-style-type: none"> Thiocarbonic acid Including all derivatives except those with higher priority. 	1965
B10-A11B	<ul style="list-style-type: none"> Carbonic acid Includes haloformates. 	1965
B10-A12	Carbamate general	1963-1965
B10-A12A	<ul style="list-style-type: none"> Dithiocarbamic acid Including all derivatives except those with higher priority. 	1965
B10-A12B	<ul style="list-style-type: none"> Monothiocarbamic acid Including all derivatives except those with higher priority. 	1965
B10-A12C	<ul style="list-style-type: none"> Carbamic acid Including all derivatives except those with higher priorities. 	1965

B10-A13	Urea, isourea general	1963-1965
B10-A13A	<ul style="list-style-type: none"> (Iso)thiourea 	1965
B10-A13B	<ul style="list-style-type: none"> (Iso)urea general 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
B10-A13C	<ul style="list-style-type: none"> Unsubstituted urea 	1975
B10-A13D	<ul style="list-style-type: none"> Other (iso)urea compounds 	1975
B10-A14	(Iso)cyanate, thiocyanide	
B10-A15	(Iso)cyanide	
B10-A16	Azide, azo diazo(nium)	
B10-A17	Biguanide, guanidine, amidine	
B10-A18	Hydroxylamine Hydroxylamine itself is coded B05-C03.	
B10-A19	Hydrazine Hydrazine itself is coded B05-C03.	
B10-A20	Imine	
B10-A21	Quaternary ammonium (bis or poly) 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.	
B10-A22	Quaternary ammonium (mono)	
B10-A23	Acetal, ketal	
B10-A24	Imide	
B10-A25	Acid anhydride, halide (carboxylic only) 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 sulphenyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.	
B10-B	AMINES	
B10-B01	Polyamine general	1986
B10-B01A	<ul style="list-style-type: none"> Polyamines, at least 1 amine aromatic 	1965
B10-B01B	<ul style="list-style-type: none"> Polyamines with no amine aromatic 	1965

B10-B02	Amino-acid, -ester or -amide general Oxygen atoms in the acid/ester/amide portion may be replaced by S where applicable. 1986	B10-C03	Carboxylic acid and phenol present Or phenolic ester or ether. Oxygen atoms may be replaced by S.
B10-B02A	. Amino-acid, -ester or -amide (amine aromatic) 1965	B10-C04	Other carboxylic acids general
B10-B02B	. Amino-acid, -ester or amide (amine not aromatic) general 1965	B10-C04A	. Carboxylic acid and cycloaliphatic system present 1975
B10-B02C	. Mixtures containing at least 3 naturally occurring amino acids 1975	B10-C04B	. Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present Including esters and ethers (of hydroxy) and thio derivatives. 1975
B10-B02D	. Sulphur-containing amino acids Including amides and esters of the acid group(s). 1975	B10-C04C	. Other carboxylic acid and carbocyclic aromatic ring system present 1975
B10-B02E	. Ring-containing amino acid with free acid group or salt 1975	B10-C04D	. Acyclic hydroxy Including acyclic ether (of hydroxy) and thio derivatives. 1975
B10-B02F	. Ring-containing amino amide 1975	B10-C04E	. General acyclic monocarboxylic acid General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives). 1975
B10-B02G	. Ring-containing amino ester 1975	B10-C04E1	.. Substituted acyclic monocarboxylic acid 2006
B10-B02H	. Optionally esterified or etherified hydroxy amino acids Including amides and esters of the acid group(s). 1975	B10-C04E2	.. Polyunsaturated fatty acid 2006
B10-B02J	. Other amino acids Including amides and esters of the acid group(s). 1975	B10-C04E3	.. Monounsaturated fatty acid 2006
B10-B03	Amino-phenol, -alcohol or ether general Oxygen atoms may be replaced by S, where applicable. 1986	B10-C04E4	.. Other unsaturated monocarboxylic acid 2006
B10-B03A	. Amino-phenol, -alcohol or -ether (amine aromatic) 1971	B10-C04E5	.. Saturated fatty acid 2006
B10-B03B	. Amino-phenol, -alcohol or -ether (amine not aromatic) 1971	B10-C04E6	.. Other saturated monocarboxylic acid 2006
B10-B04	Amine mono, general 1986	B10-D	ALDEHYDES AND CARBOXYLIC AMIDES 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.
B10-B04A	. Other aromatic amines 1971	B10-D01	Aldehydes
B10-B04B	. Other non-aromatic amines 1971	B10-D02	Carboxylic amide, thio
B10-C	CARBOXYLIC ACIDS	B10-D03	Carboxylic amides
B10-C01	Thiocarboxylic acid		
B10-C02	Polycarboxylic acid		

B10-E	HYDROXY COMPOUNDS Oxygen atoms may be replaced by S, where applicable.
B10-E01	Thiophenols
B10-E02	Phenols
B10-E03	Thioalcohols
B10-E04	Alcohols general 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.
B10-E04A	. Alcohols containing hydroxy attached directly to alicyclic ring Including inositol. 1975
B10-E04B	. Alcohols containing carbocyclic ring(s) 1975
B10-E04C	. Polyalcohols and ethers and esters thereof 1975
B10-E04D	. Other alcohols 1975
B10-F	KETONES
B10-F01	Thioketones
B10-F02	Ketones
B10-G	CARBOXYLIC ESTERS AND NITRO Oxygen atoms may be replaced by S, where applicable.
B10-G01	Thiocarboxylic esters
B10-G02	Carboxylic esters
B10-G03	Nitro
B10-H	ETHERS AND HALOGENS Oxygen atoms may be replaced by S, where applicable.
B10-H01	Ethers
B10-H02	Halogen general 1986
B10-H02A	. F linked to aromatic ring 1965
B10-H02B	. F not linked to aromatic ring 1965
B10-H02C	. Br or I linked to aromatic ring 1965
B10-H02D	. Br or I not linked to aromatic ring 1965

B10-H02E	. Cl linked to aromatic ring 1965
B10-H02F	. Cl not linked to aromatic ring 1965
B10-J	HYDROCARBONS
B10-J01	-C≡C- may form part of alicyclic ring 1965
B10-J02	Others 1965
B10-J02A	. Terpenes or terpenoids 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.

B11-A	FERMENTATION GENERAL Includes fermentation process where microorganisms are not specified	2012
B11-A01	Using microorganisms	1994
B11-A01A	. Using bacteria <i>Previous code(s): B11-A01</i>	2006
B11-A01B	. Using viruses <i>Previous code(s): B11-A01</i>	2006
B11-A01C	. Using fungi <i>Previous code(s): B11-A01</i>	2006
B11-A02	Using enzymes	1994
B11-A02A	. Using oxidoreductases general	2006
B11-A02A1	.. Using oxidases	2006
B11-A02A2	.. Using peroxidases	2006
B11-A02A3	.. Using oxygenases	2006
B11-A02A4	.. Using dehydrogenases, reductases	2006
B11-A02A5	.. Using lipxygenases	2006
B11-A02B	. Using transferases general	2006
B11-A02B1	.. Using DNA/RNA polymerases	2006
B11-A02B2	.. Using reverse transcriptases	2006
B11-A02B3	.. Using kinases	2006
B11-A02C	. Using hydrolases general	2006
B11-A02C1	.. Using esterases	2006
B11-A02C2	.. Using glycosidases	2006
B11-A02C3	.. Using proteases/peptide hydrolases	2006

B11-A02D	. Using lyases	2006
B11-A02E	. Using isomerases	2006
B11-A02F	. Using ligases	2006
B11-A03	Using algae	2010
B11-A04	Fermentation apparatus Apparatus or device for culturing microorganisms e.g. culturing device of alimentary canal nematodes.	2012
B11-A04A	. Cell/Tissue culture apparatus 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
B11-B	EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION If part of a diagnostic process see B11-C08D.	
B11-B01	Separation of stereoisomers by a biological method	2006
B11-B02	Separation of stereoisomers by other method	2006
B11-B03	Other separation Includes extraction of specific substances from natural products.	2006
B11-B03A	. Method or device for separation of biological molecules Includes methods or devices for extraction of biological substances such as proteins and nucleic acids.	2012
B11-B03B	. Device/methods for concentrating of molecules Includes techniques involving concentrating procedure and distillation process, only for use when the Novelty of the invention.	2013
B11-B03C	. Method or device for extraction of active substances from plant Patents dealing with extraction of active agents from plants.	2016

B11-B03D	<p>. Method or device for extraction of active substance from animals, arthropods Extraction of active substance from animals, arthropods, etc.</p> <p>2021</p>	B11-C01A5	<p>.. High-volume synthesis Process in which very large numbers of compounds are produced from a large variety of starting materials.</p> <p>2005</p>
B11-B04	<p>Method or device for removal processes 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.</p> <p>2006</p>	B11-C01B	<p>. Apparatus for combinatorial chemistry</p> <p>2002</p>
B11-B05	<p>Method or device for preservation and/or storage Includes devices as well as methods for preservation and storage relating to preservation. General storage containers are coded in B11-C06.</p> <p>2009</p>	B11-C01C	<p>. Other processes</p> <p>2002</p>
B11-B06	<p>Method or device for cleaning and/or sterilization Method or device for cleaning and/or sterilization, such as for medical equipment.</p> <p>2010</p>	B11-C01C1	<p>.. Stereospecific reactions</p> <p>2006</p>
B11-C	GENERAL PROCESS, APPARATUS	B11-C01C2	<p>.. Stereoselective reactions</p> <p>2006</p>
B11-C01	General chemical processes	B11-C01C3	<p>.. Racemisation</p> <p>2012</p>
B11-C01A	. Combinatorial chemistry	B11-C01D	<p>. Stereochemistry Includes geometrical isomers.</p> <p>2006</p>
B11-C01A1	<p>.. Library synthesis Used when the patent is describing a technique for producing, rather than using a combinatorial library.</p> <p>2005</p>	B11-C01E	<p>. Amplification apparatus/processes for production From 2011, the scope of this code has been extended to cover amplification apparatus for production in addition to processes for the same.</p> <p>2007</p> <p><i>Previous code(s): B11-A02B1</i></p>
B11-C01A2	<p>.. Liquid-phase synthesis Process in which the chemical building blocks are present in solution.</p> <p>2005</p>	B11-C02	<p>Syringes Also includes filling/loading of syringes.</p> <p>1971</p>
B11-C01A3	<p>.. Solid-phase synthesis Process in which the chemical building blocks are bound to a polymer.</p> <p>2005</p>	B11-C02A	<p>. Hypodermic syringes Includes multi-use as well as single-use and moulded disposable syringes.</p> <p>2005</p>
B11-C01A4	<p>.. Parallel synthesis 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.</p> <p>2005</p>	B11-C02B	<p>. Needles Should cover all needles, not just those for syringes. Not for microneedles – these are coded under B12-M02F instead.</p> <p>2005</p>
		B11-C02C	<p>. Syringe components</p> <p>2006</p>
		B11-C02D	<p>. Syringe/injector disposal apparatus Covers disposal of all injectors, not just syringes. Also includes syringe needle removing devices and sharps container.</p> <p>2006</p>
		B11-C03	<p>Dispensers</p> <p>1971</p>

B11-C04	Machine/device/method for use in/on animal body, general 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.	1971
B11-C04A	. Implant	1977
B11-C04A1	.. Stent	2006
B11-C04B	. Catheter Includes cannula.	1977
B11-C04C	. Injection gun, general	2005
B11-C04D	. Applicator	2005
B11-C04E	. Needle-free injector A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures.	2005
B11-C04F	. Artificial organs 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).	2005
B11-C04G	. Tissue engineering technologies Includes wound care technologies, stem cell therapeutic applications, and tissue and organ production (e.g. by inkjet printers and tissue scaffolds)	2007
B11-C04H	. Adaptors, fixing devices, seals Used for e.g., attaching tubes to syringes, attaching catheter tubes to supports	2009
B11-C04J	. Cements, putties Includes bone cement etc	2010
B11-C04K	. Bioelectronics and neurostimulation Includes electroceuticals. May also be searched with B14-S27	2015
B11-C04Z	. Non-pharmaceutical alternative therapies 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.	2012
B11-C05	Process/ apparatus for producing pharmaceutical, veterinary or agricultural composition 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
B11-C06	Containers, packing, preserving apparatus, storage tanks, transporting apparatus general	1975
B11-C06A	. Closures, caps	1977
B11-C06B	. Formulation counting/measuring devices e.g. tablet counting machines, cylinders for measuring solutions, weighing devices.	2009
B11-C06C	. Peripheral devices for therapeutic regimens Includes stands for e.g. infusion devices, tamper alarms.	2010
B11-C06D	. Labels and labeling devices	2011
B11-C06E	. Temperature regulation apparatus	2012
B11-C06Z	. Safety and tamper-proof devices/methods 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.	2017

B11-C07	Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general B11-C07+ and B11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention. 1975	B11-C08	Other methods/apparatus for testing/detection Including new drug screening systems. 1975
B11-C07A	. Antigen - antibody reaction general Excluding B11-A. 1977	B11-C08A	. NMR, mass spectroscopy Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under B11-C08G2. 1986
B11-C07A1	.. Production of antigen for test 1986	B11-C08B	. Potentiometry, polarography 1986
B11-C07A2	.. Antigen or antibody bound to colour tracer 1986	B11-C08C	. Sampling device and sampling method for testing 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 as well as method of sampling, where in the method of collecting samples if for test and detection purposes 1986
B11-C07A3	.. Antigen or antibody bound to radioactive tracer 1986	B11-C08C1	.. Microfluidic devices 2007
B11-C07A4	.. Antigen or antibody bound to enzyme tracer 1986	B11-C08C2	.. Manipulation of samples Includes methods or devices for treating biopsy or smear samples to make them easier to view. 2014
B11-C07A5	.. Antigen or antibody bound to fluorescent or chemiluminescent tracer 1986	B11-C08D	. Separation methods of testing and diagnosis general Other than B11-B. 1986
B11-C07A6	.. Antigen or antibody bound to other type of carrier e.g. erythrocytes, glass, polymer. 1986	B11-C08D1	.. Electrophoresis 1986
B11-C07A7	.. Apparatus for antigen antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention 1986	B11-C08D2	.. Chromatography, ion exchange Including High Performance Liquid Chromatography (HPLC) 1986
B11-C07B	. Colorimetric tests Including fluorescence (excluding B11-C07A). 1977	B11-C08D3	.. Filtration, centrifugation, sedimentation, dialysis 1986
B11-C07B1	.. Colorimetric (detection of colour change in a reagent) 1986	B11-C08E	. Biological procedures for testing general Other than B11-A and B11-C07A. 1986
B11-C07B2	.. Spectrophotometric 1986	B11-C08E1	.. Fermentation of micro-organisms, cell or tissue culture e.g. testing antibiotics by cultivation of microorganisms. 1986
B11-C07B3	.. Fluorescence 1986		
B11-C07B4	.. Chemiluminescence 1986		
B11-C07B5	.. Radioactive tracer other than B11-C07A3 1986		
B11-C07B6	.. Reflectance, light scattering etc. 2005		
B11-C07B7	.. Apparatus for colorimetric analysis where the apparatus is the novelty of the invention 2009		

B11-C08E2	.. Noting physiological responses in animals or plants/modelling diseases e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature. 1986	B11-C08F1	.. Computational genomics 2002-2018 <i>Now coded as: B11-C11C1</i>
B11-C08E3	.. Enzyme processes other than polarography or enzyme labelling 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). 1986	B11-C08F2	.. Experimental genomics 2002
B11-C08E4	.. DNA sequencing methods Other than those involving enzymes. 1994-2018 <i>Previous code(s): B11-C08, B11-C08E3</i> <i>Now coded as: B11-C08F7A</i>	B11-C08F3	.. Computational proteomics 2002-2018 <i>Now coded as: B11-C11C2</i>
B11-C08E5	.. Nucleic acid hybridisation test methods, use of nucleic acid probes 1994-2018 <i>Previous code(s): B11-C08, B11-C08E3</i> <i>Now coded as: B11-C08F8</i>	B11-C08F4	.. Experimental proteomics 2002
B11-C08E6	.. Microarrays and biochips 2002	B11-C08F5	.. Functional genomics 2009
B11-C08E7	.. Agonist/antagonist identification 2005	B11-C08F6	.. Functional proteomics 2009
B11-C08E8	.. Biosensor To be searched alongside the physicochemical and/or biological parts where present. 2016	B11-C08F7	.. Sequencing methods general 2019
B11-C08E9	.. Protein sequencing method 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 2018-2018	B11-C08F7A	... DNA/RNA sequencing methods 2019 <i>Previous code(s): B11-C08, B11-C08E4</i>
B11-C08F	. Protein/Gene analysis general 2002	B11-C08F7B	... Protein sequencing methods 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 2019
		B11-C08F8	.. Nucleic acid hybridization test methods, use of nucleic acid probes 2019 <i>Previous code(s): B11-C08, B11-C08E5</i>
		B11-C08G	. Structural conformation analyzing method for biomolecules 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. 2002
		B11-C08G1	.. X-ray crystallography 2002
		B11-C08G2	.. NMR spectroscopy 2002
		B11-C08G3	.. Electron microscopy 2002
		B11-C08H	. Drug design by computer modelling 2002

B11-C08J	. Microscopy/ optical processes & apparatus	2005	B11-C08N2	.. Isothermal amplification methods, general and other	2022
B11-C08K	. Other analytical apparatus where the apparatus is the novelty of the invention	2009		For three or more specific sub-codes or general references to isothermal methods, only the parent code B11-C08N2 is applied.	
B11-C08L	. Acoustics	2016	B11-C08N2A	... Loop mediated isothermal amplification (LAMP)	2022
	Includes ultrasound, infrasound and vibration.			Also includes RT-LAMP.	
B11-C08M	. Calorimetry	2020	B11-C08N2B	... Self-sustained sequence replication (3SR)	2022
B11-C08N	. Biological testing methodologies	2022	B11-C08N2C	... Strand displacement amplification (SDA)	2022
	This code is a section heading only and is not applied to patents. See the relevant B11-C08N sub-codes instead.		B11-C08N2D	... Nucleic acid sequence based amplification (NASBA)	2022
B11-C08N1	.. Thermocycling amplification methods	2022	B11-C08N2E	... Rolling circle amplification (RCA)	2022
	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.		B11-C08N2F	... Multiple displacement amplification (MDA)	2022
B11-C08N1A	... Multiplex PCR	2022		Includes Whole Genome Amplification (WGA), Multiple Annealing and Looping Based Amplification Cycles (MALBAC).	
B11-C08N1B	... Nested PCR	2022	B11-C08N2G	... Helicase dependent amplification (HAD)	2022
B11-C08N1C	... Colony PCR	2022	B11-C08N2H	... Ramification amplification method (RAM)	2022
B11-C08N1D	... Random amplification polymorphism DNA PCR (RAPD-PCR)	2022	B11-C08N2J	... Recombinase polymerase amplification (RPA)	2022
B11-C08N1E	... Simple sequence repeat-anchored PCR (SSR-PCR)	2022	B11-C08N3	.. Real-time analysis	2022
B11-C08N1F	... Amplified fragment length polymorphism PCR (AFLP-PCR)	2022		To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	
B11-C08N1G	... Amplification of refractory mutation system PCR (ARMS-PCR)	2022	B11-C08N4	.. Rapid analysis	2022
B11-C08N1H	... Restriction fragment length polymorphism (RFLP)	2022		To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	
B11-C08N1J	... Ligase chain reaction (LCR)	2022	B11-C09	Other processes, appts.	1975
				Processes and apparatus not covered elsewhere in section 11.	
			B11-C09A	. Processes	2006

B11-C09B	. Apparatus	2006	B11-C12	Nanotechnology (general) Includes nanoswitches made of DNA, nanorobots and DNA origami.	2005
B11-C10	Screening general	2002	B11-C13	Particle engineering 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
B11-C10A	. High throughput screening	2002	B11-C14	Security systems (e.g. biometric data, retinal scanning, authentication of drugs, DNA labelling for security purposes, etc.)	2008
B11-C10B	. High content screening 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	B11-C15	Biological tools/models/teaching aids Physical entities only. For Computerised teaching models see B11-C11B.	2011
B11-C10C	. Protein/gene libraries Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.	2005	B11-C15A	. Computerised teaching models Includes computer simulations used to show drug effects.	2021
B11-C10D	. Phage display libraries	2005	B11-C16	Apparatus specifically for pediatrics or geriatrics Includes apparatus for neonates and adolescents.	2017
B11-C11	General computing methods & apparatus Including media and methods for storing, searching and retrieving data and drug databases. Also for computerised pharmacological models.	2005	B11-C17	Bioprinting Includes pre- and post-bioprinting procedures. Additionally coded with B11-C04G for tissue engineering via bioprinting, or B11-C04F for printable organs.	2017
B11-C11A	. Patient compliance methods & systems Methods concerning patient compliance, e.g. medication reminders.	2005			
B11-C11B	. Computerised teaching models Includes computer simulations used to show drug effects, such as in university courses.	2014			
B11-C11C	. Computational protein/nucleic acid analysis	2019			
B11-C11C1	.. Computational genomics <i>Previous code(s): B11-C08F1</i>	2019			
B11-C11C2	.. Computational proteomics <i>Previous code(s): B11-C08F3</i>	2019			

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

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

B12-B03	Antimalarial	1963-1993
	<i>Now coded as: B14-A03B</i>	
B12-B04	Antiparasitic (general) acaricide	1963-1993
	<i>Now coded as: B14-B02</i>	
B12-B05	Coccidiostat	1963-1993
	<i>Now coded as: B14-A03C</i>	
B12-B06	Schistosomicide	1963-1993
	<i>Now coded as: B14-B03A</i>	
B12-B07	Trypanocide	1963-1993
	<i>Now coded as: B14-A03E</i>	
B12-C	CNS-ACTIVE TYPE (I)	
B12-C01	Anaesthetic (general)	1963-1993
	<i>Now coded as: B14-C07</i>	
B12-C02	Anaesthetic (Local)	1963-1993
	<i>Now coded as: B14-C08</i>	
B12-C03	Analeptic	1963-1993
	<i>Now coded as: B14-J01A2</i>	
B12-C04	Antiparkinsonian drug	1963-1993
	<i>Now coded as: B14-J01A3</i>	
B12-C05	Central depressant	1963-1993
	<i>Now coded as: B14-J01B</i>	
B12-C06	Central stimulant	1963-1993
	<i>Now coded as: B14-J01A, B14-J01A1</i>	
B12-C07	Hypnotic	1963-1993
	<i>Now coded as: B14-J01B1</i>	
B12-C08	Sedative	1963-1993
	<i>Now coded as: B14-J01B2</i>	
B12-C09	Synergist	1963-1993
	<i>Now coded as: B14-S09</i>	
B12-C10	Tranquilliser	1963-1993
	<i>Now coded as: B14-J01B4, B14-J01A4, B14-F02D1, B14-J01, B14-J01B3, B14-N16, B14-S07</i>	
B12-D	CNS-ACTIVE TYPE (II)	
B12-D01	Analgesic	1963-1993
	<i>Now coded as: B14-C01</i>	
B12-D02	Antiallergic general	1963-1993
	<i>Now coded as: B14-G02A</i>	

B12-D02A	<ul style="list-style-type: none"> Autoimmune disease treatment See also B12-D03, B12-D07, B12-D09. 1986-1993 <i>Now coded as: B14-G02D</i> 	B12-E02	Muscle relaxant, inotropic See also B12-F01. 1963-1993 <i>Now coded as: B14-J05, B14-J05A, B14-J05C, B14-J05D</i>
B12-D02B	<ul style="list-style-type: none"> Immune suppressant Immunomodulatory is also coded as B12-A01 and B12-A06 1986-1993 <i>Now coded as B14-G02, B14-G03, B14-G02C</i> 	B12-E03	Mydriatic/myopic 1963-1993 <i>Now coded as: B14-J05B</i>
B12-D02C	<ul style="list-style-type: none"> Complement inhibitor 1986-1993 <i>Now coded as B14-G02D</i> 	B12-E04	Parasympathetic blocker 1963-1993 <i>Now coded as: B14-J02B+, B14-J05D</i>
B12-D02D	<ul style="list-style-type: none"> Anti slow-releasing-substance of anaphylaxis (SRS-A) 1986-1993 <i>Now coded as: B14-G02B</i> 	B12-E05	Parasympathetic stimulant, acetyl choline potentiator 1963-1993 <i>Now coded as: B14-J02A+</i>
B12-D03	Antiarthritic 1963-1993 <i>Now coded as: B14-C09+</i>	B12-E06	Sympathetic blocker general 1963-1993 <i>Now coded as: B14-J02D, B14-J02D3</i>
B12-D04	Anticonvulsant 1963-1993 <i>Now coded as: B14-J07</i>	B12-E06A	<ul style="list-style-type: none"> Alpha-adrenergic blocker 1986-1993 <i>Now coded as: B14-J02D1</i>
B12-D05	Antiemetic 1963-1993 <i>Now coded as: B14-E05</i>	B12-E06B	<ul style="list-style-type: none"> Beta-adrenergic blocker 1986-1993 <i>Now coded as: B14-J02D2</i>
B12-D06	Antihistamine general For gastric secretion inhibitor see also B12-J02. 1963-1993 <i>Now coded as: B14-L09</i>	B12-E07	Sympathetic stimulant, adrenergic stimulant, adrenaline potentiator 1963-1993 <i>Now coded as: B14-J02C+</i>
B12-D06A	<ul style="list-style-type: none"> H2 secretion inhibitor 1986-1993 <i>Now coded as: B14-L11</i> 	B12-E08	Ulcers (peptic and duodenal) 1963-1993 <i>Now coded as: B14-E08</i>
B12-D06B	<ul style="list-style-type: none"> H1 inhibitor 1986-1993 <i>Now coded as: B14-L10</i> 	B12-E09	Uterus active 1963-1993 <i>Now coded as: B14-N14</i>
B12-D07	Antiinflammatory 1963-1993 <i>Now coded as: B14-C02, B14-C03</i>	B12-F	CARDIOACTIVE TYPE <i>Previous code(s): B14-F</i>
B12-D08	Antipyretic 1963-1993 <i>Now coded as: B14-C04, B14-C05</i>	B12-F01	Cardioactive general 1963-1993 <i>Now coded as: B14-F01</i>
B12-D09	Antirheumatic 1963-1993 <i>Now coded as: B14-C06</i>	B12-F01A	<ul style="list-style-type: none"> Arrhythmia treatment 1986-1993 <i>Now coded as: B14-F01A</i>
B12-D10	Convulsant 1963-1993 <i>Now coded as: B14-J06</i>	B12-F01B	<ul style="list-style-type: none"> Cardiac stimulant Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotonic, cardiac insufficiency treatment. 1986-1993 <i>Now coded as: B14-F01B</i>
B12-E	AUTONOMIC N.S. ACTIVE TYPE	B12-F01C	<ul style="list-style-type: none"> Cardiovascular, Inotropic Before 198602 inotropic was coded B12-E02. 1986-1993 <i>Now coded as: B14-F01C</i>
B12-E01	Autonomic N.S. active general 1963-1993 <i>Now coded as: B14-F02, B14-J02</i>		

B12-F02	Coronary dilator 1963-1993 <i>Now coded as: B14-F01D, B14-F01E</i>	B12-G01B6	.. Antiligase (antisynthetase) 1986-1993 <i>Now coded as: B14-D10</i>
B12-F03	Ganglion-blocker 1963-1993 <i>Now coded as: B14-F01F</i>	B12-G02	Choleretic and liver 1963-1993 <i>Now coded as: B14-N12</i>
B12-F04	Hypertensive 1963-1993 <i>Now coded as: B14-F02A</i>	B12-G03	Diuretic and kidney For urinary tract infections see B12-A01. 1963-1993 <i>Now coded as: B14-F2E, B14-N10</i>
B12-F05	Hypotensive general 1963-1993 <i>Now coded as: B14-F02B</i>	B12-G04	Hormone adrenocortical Including Addison's disease treatment (general). 1963-1993 <i>Now coded as: B14-D01, B14-D01D, B14-D01E, B14-J03</i>
B12-F05A	. Angiotensin converting enzyme inhibitor, renin inhibitor 1986-1993 <i>Now coded as: B14-F02B1</i>	B12-G04A	. Anti-aging, anti-senility, anti-Alzheimer's disease Including non-hormonal treatment. 1986-1993 <i>Now coded as: B14-J01A4</i>
B12-F05B	. Calcium entry blockers B12-G01 may also be searched. 1986-1993 <i>Now coded as: B14-F02B2</i>	B12-G04B	. Androgenic 1986-1993 <i>Now coded as: B14-D01A</i>
B12-F06	Vasoconstrictor 1963-1993 <i>Now coded as: B14-F02C</i>	B12-G04C	. Oestrogenic 1986-1993 <i>Now coded as: B14-D01B</i>
B12-F07	Vasodilator 1963-1993 <i>Now coded as: B14-F02D+</i>	B12-G04D	. Progestational 1986-1993 <i>Now coded as: B14-D01C</i>
B12-G	METABOLISM ACTIVE TYPE	B12-G05	Leukaemia treatment 1963-1993 <i>Now coded as: B14-H01A</i>
B12-G01	Antimetabolite general 1963-1993 <i>Now coded as: B14-J04, B14-L06, B14-L07, B14-L08</i>	B12-G06	Thyroid agent 1963-1993 <i>Now coded as: B14-N11</i>
B12-G01A	. Antihormone, antiandrogenic, antioestrogenic, antiprogestational, adrenal cortex inhibitor 1986-1993 <i>Now coded as: B14-D02+</i>	B12-G07	Tumour-inhibitor 1963-1993 <i>Now coded as: B14-H01, B14-H01B</i>
B12-G01B	. Enzyme inhibitor 1986-1993 <i>Now coded as: B14-D03, B14-D04</i>	B12-H	BLOOD ACTIVE TYPE
B12-G01B1	.. Antioxidoreductase 1986-1993 <i>Now coded as: B14-D05+</i>	B12-H01	Antianaemic 1963-1993 <i>Now coded as: B14-F03</i>
B12-G01B2	.. Antitransferase 1986-1993 <i>Now coded as: B14-D06+</i>	B12-H02	Anticoagulant 1963-1993 <i>Now coded as: B14-F04</i>
B12-G01B3	.. Antihydrolase 1986-1993 <i>Now coded as: B14-D07+</i>	B12-H03	Antilipaemic 1963-1993 <i>Now coded as: B14-F06, B14-F07</i>
B12-G01B4	.. Antilyase 1986-1993 <i>Now coded as: B14-D08</i>	B12-H04	Coagulant 1963-1993 <i>Now coded as: B14-F08</i>
B12-G01B5	.. Antiisomerase 1986-1993 <i>Now coded as: B14-D09</i>	B12-H05	Hypoglycaemic 1963-1993 <i>Now coded as: B14-F09, B14-F10</i>

B12-H06	Plasma and blood substitutes 1963-1993 <i>Now coded as: B14-F11</i>
B12-J	GASTROINTESTINAL ACTIVE TYPE
B12-J01	Anabolic agent, nutritional, achlorhydria treatment (humans) 1963-1993 <i>Now coded as: B14-E10+, B14-E11</i>
B12-J02	Anorectic, antisecretory 1963-1993 <i>Now coded as: B14-E07, B14-E12</i>
B12-J03	Antacid 1963-1993 <i>Now coded as: B14-E01, B14-E03</i>
B12-J04	Antidiarrhoeal, antihæmorrhoidal 1963-1993 <i>Now coded as: B14-E02, B14-E04</i>
B12-J05	Antidote general 1963-1993 <i>Now coded as: B14-M01, B14-M01C</i>
B12-J05A	. Alcoholism treatment 1986-1993 <i>Now coded as: B14-M01A</i>
B12-J05B	. Antismoking 1986-1993 <i>Now coded as: B14-M01B</i>
B12-J05C	. Anti-heavy metal poisoning 1986-1993 <i>Now coded as: B14-M01D</i>
B12-J05D	. Pesticide or herbicide antidote 1986-1993 <i>Now coded as: B14-M01</i>
B12-J05E	. Protecting plants from poisons 1986-1993
B12-J06	Emetic 1963-1993 <i>Now coded as: B14-E06</i>
B12-J07	Laxative 1963-1993 <i>Now coded as: B14-E09</i>
B12-J08	Bone disorder treatment, osteoporosis 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>
B12-K	DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)
B12-K01	Antitussive 1963-1993 <i>Now coded as: B14-K01B</i>
B12-K02	Bronchodilator 1963-1993 <i>Now coded as: B14-K01D</i>

B12-K03	Contraceptive 1963-1993 <i>Now coded as: B14-P01+</i>
B12-K04	Diagnosis and testing general 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.
B12-K04A	. Diagnosis of diseases or conditions in animals general Including detection of glucose in blood and ethanol in breath. <i>Now coded as B12-K04G.</i> 1986-2015
B12-K04A1	.. Diagnosis of tumours, cancer <i>Now coded as B12-K04G2A.</i> 1986-2015
B12-K04A2	.. Diagnosis of heart and circulatory disorders <i>Now coded as B12-K04G2B.</i> 1986-2015
B12-K04A3	.. Diagnosis of genetic disorders <i>Now coded as B12-K04G2C.</i> 1986-2015
B12-K04A4	.. Diagnosis of microbial infections <i>Now coded as B12-K04G1A.</i> 1986-2015
B12-K04A4A	... Detection of viral diseases <i>Now coded as B12-K04G1B.</i> 2005-2015
B12-K04A4B	... Detection of bacterial diseases <i>Now coded as B12-K04G1C.</i> 2005-2015
B12-K04A4C	... Detection of fungal diseases <i>Now coded as B12-K04G1D.</i> 2015-2015
B12-K04A5	.. Diagnosis of CNS disorders <i>Now coded as B12-K04G2D.</i> 1986-2015
B12-K04A6	.. Diagnosis of pregnancy, testing or measuring sex hormone levels and oestrus cycle <i>Now coded as B12-K04G2E.</i> 1986-2015

B12-K04A7	.. Detection of parasites Including protozoa and helminths. <i>Now coded B12-K04G1E.</i> 2006-2015	B12-K04E2	.. Environmental testing Includes testing for contaminants in rivers. 2005
B12-K04A8	.. Diagnosis of immunological disorders <i>Now coded as B12-K04G2F.</i> 2007-2015	B12-K04E3	.. Other drug testing Includes quality control. 2007
B12-K04A9	.. Diagnosis of respiratory disorders Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. <i>Now coded as B12-K04G2G.</i> 2012-2015	B12-K04F	. Tests involving nucleic acid, hybridisation probes etc. 1994 <i>Previous code(s): B12-K04, B12-K04A</i>
B12-K04A10	.. Diagnosis or detection of endocrine and hormonal diseases Diagnosis or detection of endocrine and hormonal diseases including thyroid diseases. <i>Now coded as B12-K04G2H.</i> 2015-2015	B12-K04G	. Diagnosis of diseases or conditions in animals general Including detection of glucose in blood and ethanol in breath. 2016 <i>Previous code(s): B12-K04A</i>
B12-K04B	. In vivo radiopharmaceutical diagnostics 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. 1986	B12-K04G1	.. Diagnosis of infections and exogenous disorders 2016
B12-K04C	. In vivo imaging (other than by X-ray or radiopharmaceuticals) Including imaging of complete organs, cells e.g. cancer cells, or other biological molecules within a whole body rather than a sample. 1986	B12-K04G1A	... Diagnosis of microbial diseases general and other 2016 <i>Previous code(s): B12-K04A4</i>
B12-K04C1	.. Ultrasonics 1994 <i>Previous code(s): B12-K04C</i>	B12-K04G1B	... Detection of viral diseases 2016 <i>Previous code(s): B12-K04A4A</i>
B12-K04C2	.. NMR 1994 <i>Previous code(s): B12-K04C</i>	B12-K04G1C	... Detection of bacterial diseases 2016 <i>Previous code(s): B12-K04A4B</i>
B12-K04C3	.. Tomography Includes PET (positron emission tomography). 2007	B12-K04G1D	... Detection of fungal diseases 2016 <i>Previous code(s): B12-K04A4C</i>
B12-K04D	. Testing for plant disorders or diseases 1986-2018	B12-K04G1E	... Detection of parasites Including protozoa and helminths. 2016 <i>Previous code(s): B12-K04A7</i>
B12-K04E	. Testing for substances other than for diseases Not in body fluids. 1986	B12-K04G2	.. Diagnosis of endogenous disorders general and other 2016
B12-K04E1	.. Drug discovery process 2005	B12-K04G2A	... Diagnosis of tumors, cancer 2016 <i>Previous code(s): B12-K04A1</i>
		B12-K04G2B	... Diagnosis of heart and circulatory disorders 2016 <i>Previous code(s): B12-K04A2</i>
		B12-K04G2C	... Diagnosis of genetic disorders 2016 <i>Previous code(s): B12-K04A3</i>
		B12-K04G2D	... Diagnosis of CNS disorders 2016 <i>Previous code(s): B12-K04A5</i>

B12-K04G2E	... Diagnosis of pregnancy, testing or measuring sex hormone levels and estrus cycle 2016 <i>Previously coded as: B12-K04A6</i>	B12-L04	Ear, nose, eye, mouth and throat preparation 1963-1993 <i>Now coded as: B14-N02, B14-N03, B14-N04, B14-N05</i>
B12-K04G2F	... Diagnosis of immunological disorders 2016 <i>Previous code(s): B12-K04A8</i>	B12-L05	Hair preparation 1963-1993 <i>Now coded as: B14-R02</i>
B12-K04G2G	... Diagnosis of respiratory disorders Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. 2016 <i>Previous code(s): B12-K04A9</i>	B12-L06	Insect repellent 1963-1993 <i>Now coded as: B14-B05</i>
B12-K04G2H	... Diagnosis of endocrine and hormonal diseases Including thyroid diseases. 2016 <i>Previous code(s): B12-K04A10</i>	B12-L07	Perfume 1963-1993 <i>Now coded as: B14-R04</i>
B12-K04G2I	... Diagnosis of gastrointestinal disorders 2016	B12-L08	Sunscreen agent 1963-1993 <i>Now coded as: B14-R05</i>
B12-K04G2J	... Diagnosis of renal and urological disorders 2016	B12-L09	Veterinary 1963-1993
B12-K04G2K	... Diagnosis of metabolic disorders 2021	B12-L10	Agricultural composition general 1966-1993
B12-K05	Expectorant 1963-1993 <i>Now coded as: B14-K01E</i>	B12-M	FORMULATIONS TYPE Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.
B12-K06	Respiratory active 1963-1993 <i>Now coded as: B14-K01, B14-K01C</i>	B12-M01	Aerosol, inhalent, smoke general
B12-K07	Contrast agents and medium 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). 1963	B12-M01A	. Aerosol 1986
B12-L	COSMETIC PREPARATION TYPE	B12-M01B	. Inhalent 1986
B12-L01	Antiperspirant 1963-1993 <i>Now coded as: B14-R03</i>	B12-M01B1	.. Dry powder inhaler 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
B12-L02	Cosmetic 1963-1993 <i>Now coded as: B14-R01</i>	B12-M01B2	.. Multidose inhaler A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage. 2005
B12-L03	Dental agent 1963-1993 <i>Now coded as: B14-N06</i>	B12-M01B3	.. Nebuliser A device which is used to administer a solution of drug in the form of a fine mist for you 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

B12-M01B4	.. Metered dose inhaler	2008	B12-M09	Surfactant	
B12-M01C	. Smoke Also includes incense.	1986	B12-M10	Controlled release general	
B12-M01D	. Intranasal	2002-2006	B12-M10A	. Sustained release general Active ingredient is gradually released over a period of time.	1986
	<i>Now coded as: B12-M12Q</i>		B12-M10A1	.. Osmotic pump 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
B12-M01E	. Other gaseous forms	2005	B12-M10A2	.. Reservoir devices Active drug core encapsulated within a polymer film or coat through which it diffuses.	2005
B12-M02	Cream, gel, ointment, plaster		B12-M10A3	.. Multi-layer tablet 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
B12-M02A	. Toothpaste, toothpowder From 198601 B12-L03 is not additionally applied.	1986	B12-M10A4	.. Other matrix devices 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
B12-M02B	. Ointment, cream, lotion Includes liniment, paste, balm and other general oil-based formulations.	1986	B12-M10A5	.. Pendant devices Active is bound to polymer, from which it is released by hydrolytic enzymes in the body.	2005
B12-M02C	. Cataplasm, poultice Applying heat.	1986	B12-M10A6	.. Dual release devices 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.	2005
B12-M02D	. Adhesive sheet, sticking plaster, bandage, gauze 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.	1986	B12-M10A7	.. Nanotechnology devices Use of nanotechnology to deliver drugs to specific sites and control their release at that point. Includes quantum dots.	2005
B12-M02E	. Dusting powder Topical use only.	1986			
B12-M02F	. Transdermal Administration of a drug through dermal or mucosal membrane. Includes microneedles	1986			
B12-M02G	. Gels/hydrogels	2006			
B12-M03	Emulsion				
B12-M04	Packaging material, apparatus This code is used in conjunction with only the 11-C, 11-C01, 11-C07, 11-C08 and 11-C09 sub-sections of B11.				
B12-M05	Pharmaceutical composition general				
B12-M06	Preservative				
B12-M07	Solution				
B12-M08	Suppository Also includes pessaries				

B12-M10B	. Delayed release This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines. 1986	B12-M11C	. Capsule Excluding microcapsule. 1986
B12-M10C	. Rapid release 2002	B12-M11D	. Pellet, prill, granule, particle Excluding B12-M11B. 1986
B12-M10D	. Pulsed release Active drug core coated with specific polymers and agents, where active is released in a “drug pulse” after a time lag. 2005	B12-M11E	. Microcapsule Excluding B12-M11F. 1986
B12-M10E	. Site-specific release 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. 2005	B12-M11F	. Liposomes/niosomes Includes non-ionic surfactant-based liposomes when site specific release is not mentioned. Includes micelles 1986
B12-M10E1	.. Using lipid-based systems 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. 2005	B12-M11G	. Powder 1986
B12-M10E2	.. Using antibodies A site-specific release form in which the drug is bound to an antibody. 2005	B12-M11H	. Polymorphic form 2010
B12-M10E3	.. Using nucleic acids A site-specific release form in which the drug is bound to nucleic acid. 2017	B12-M11H1	.. Special amorphous form <i>Previous code(s): B12-M11H</i> 2006
B12-M10E4	.. Using protein/peptide A site-specific release form in which the drug is bound to a protein/peptide. 2019	B12-M11H2	.. Special crystal form <i>Previous code(s): B12-M11H</i> 2010
B12-M10F	. Externally stimulated devices (e.g. electrically or ultrasonically) 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	B12-M11J	. Effervescent formulation Includes effervescent tablets and effervescent granules 1994
B12-M11	Tablets, capsules, pills etc. general	B12-M11K	. Tablet with two or more coating layers <i>Previous code(s): B12-M11B</i> 1994
B12-M11A	. Anticaking 1986	B12-M11L	. Water-soluble formulation Includes water soluble tablets and water soluble granules 2002
B12-M11B	. Tablet (pressed) 1986	B12-M11M	. Chewable tablet 2005
		B12-M11N	. Microparticle 2006
		B12-M11P	. Lyophilized form Also includes freeze dried forms. 2006
		B12-M11Q	. Nanoformulations Includes nanoparticles. 2008
		B12-M11Q1	.. Nanoparticle 2020
		B12-M11Q2	.. Nanoemulsion 2020
		B12-M11Q3	.. Nanosuspension 2020

B12-M11R	. Coated form general and other Tablets with two or more coating layers are coded under B12-M11K	2009	B12-M12K	. Subcutaneous	2005
B12-M11R1	.. Coated capsules	2009	B12-M12L	. Intrauterine, cervical	2005
B12-M11R2	.. Coated microparticles	2009	B12-M12M	. Intravaginal	2005
B12-M11R3	.. Coated tablets	2012	B12-M12N	. Oral general	2005
B12-M11S	. Foam formulation	2011	B12-M12O	. Intraosseous Administration directly into bone.	2020
B12-M11T	. Lozenge	2014	B12-M12P	. Rectal general	2005
B12-M11U	. Dual dosage forms E.g. tablet in capsule / pellet in capsule. To be searched alongside the B12 codes for each individual dosage component.	2016	B12-M12Q	. Intranasal	2006
B12-M11V	. Colloidal form May be searched with other code(s) from B12-M.	2016	B12-M12R	. Intrathecal	2012
B12-M11Z	. Pro-formulation Additional code to indicate the pro-form of a formulation e.g. pro-liposomes. Applied in conjunction with other B12-M11 codes.	2015	B12-M12S	. Intraarticular	2013
B12-M12	MODE OF ADMINISTRATION	2005	B12-M12T	. Intramedular Intramedular/intramedullary.	2013
B12-M12A	. Buccal, sublingual	2005	B12-M12U	. Intraperitoneal	2013
B12-M12B	. External, topical	2005	B12-M12V	. Epidural Mode of administration is through the spinal cord.	2015
B12-M12C	. Injection	2005	B12-M12W	. Intravesical Injecting drugs directly to urinary bladder.	2017
B12-M12D	. Infusion	2005	B12-M12X	. Intratumoral	2019
B12-M12E	. Intraarterial	2005	B12-M12Y	. Intracardiac Administration directly into the heart.	2020
B12-M12F	. Intravenous	2005	B12-M12Z	. Specific treatment regime Includes sequential administration of drugs and tapered dosing regimes	2011
B12-M12G	. Intraaural	2005	B12-M14	Suspensions, dispersions	2005
B12-M12H	. Intraocular Includes intravitreal.	2005	B12-M15	Film, sheet Includes laminates.	2005
B12-M12I	. Intratracheal	2020	B12-M16	Prosthesis	2005
B12-M12J	. Intramuscular	2005	B12-M17	Surgical sponge, tampon	2005
			B12-M18	Encapsulation	2005

B12-M19	Gene delivery methods	2006
B12-M19A	. Gene delivery by viral methods	2006
B12-M19B	. Gene delivery by non-viral methods	2006
B12-M20	Taste masking agent	2007
B12-M21	Absorbent, accelerator	2007
B12-M22	Formulations to prevent drugs from being abused	2008
B12-N	PESTICIDES, FERTILISERS	
B12-N01	Pesticides general	1965-1993
B12-N02	Insecticides	1965-1993
B12-N03	Lures, baits etc.	1965-1993
B12-N04	Molluscicide, slugicide	1965-1993
B12-N05	Rodenticide Including birds etc.	1965-1993
B12-N06	Rodent repellent Including birds etc.	1965-1993
B12-N07	Soil fumigants, sterilants and seed protectants	1965-1993
B12-N08	Soil improving (other than nutrients) synthetic growth media	1965-1993
B12-N09	Soil nutrients Inorganic, including trace elements.	1965-1993
B12-N10	Soil nutrients (others)	1965-1993
B12-P	PLANT GROWTH REGULANT TYPE	
B12-P01	Plant growth regulants general	1965-1993
B12-P02	Defoliants, desiccants, chemical mowing	1965-1993
B12-P03	Fruit drop and set, thinning of fruit	1965-1993
B12-P04	Growth stimulants, phytohormones	1965-1993
B12-P05	Herbicide (total and general)	1965-1993

B12-P06	Herbicide (selective)	1965-1993
B12-P07	Moss, lichen controlling	1965-1993
B12-P08	Rooting cpds. (rhizogenes)	1965-1993
B12-P09	Sprouting inhibitors, seed germination inhibitors, growth inhibitors	1965-1993
B12-P10	Moisture conservation (mulches)	1965-1993
B12-Q01	TARGETED THERAPIES Includes pharmacogenomics, precision medicine and personalised medicine.	2006
B12-Q01A	. Pharmacogenomics general	2006
B12-R	FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS 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.

B14-A	ANTIMICROBIALS	1994
B14-A01	Antibacterial general	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A	. Gram-negative genera, general and other	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A1	.. Bordetella e.g. B. pertussis (causes whooping cough).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A2	.. Borrelia e.g. B. burgdorferi (causes Lyme disease).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A3	.. Escherichia e.g. E. coli.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A4	.. Mycoplasma e.g. M. pneumoniae, M. mycoides.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A5	.. Neisseria e.g. N. gonorrhoeae, N. meningitidis.	1994
	<i>Previous code(s): B12-A05</i>	
B14-A01A6	.. Pseudomonas e.g. P. aeruginosa, P. mallei.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A7	.. Rickettsia e.g. R. prowazekii (causes typhus).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A8	.. Salmonella e.g. S. typhi (causes typhoid fever).	1994
	<i>Previous code(s): B12-A01</i>	

B14-A01A9	.. Vibrio e.g. V. cholerae, V. parahaemolyticus.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B	. Gram-positive genera, general and other	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B1	.. Mycobacteria e.g. M. bovis, M. phlei.	1994
	<i>Previous code(s): B12-A01, B12-A03, B12-A04,</i>	
B14-A01B1A	... M. tuberculosis	2005
B14-A01B1B	... M. leprae	2005
B14-A01B2	.. Streptococcus e.g. S. pyogenes, S. faecalis, S. pneumoniae (pneumococci), S. lactis.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B3	.. Streptomyces e.g. S. griseus, S. scabies.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B4	.. Staphylococcus e.g. S. aureus, S. epidermitidis.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B5	.. Bacillus e.g. B. anthracis, B. cereus	2006
	<i>Previous code(s): B14-A01B</i>	
B14-A01X	. Combating resistant bacteria This code is applied in conjunction with one or more codes from section B14-A01	2013
B14-A02	Antiviral general	1994
	<i>Previous code(s): B12-A06</i>	
B14-A02A	. DNA Viruses general and other	1994
	<i>Previous code(s): B12-A06</i>	
B14-A02A1	.. Adenovirus	1994
	<i>Previous code(s): B12-A06</i>	
B14-A02A2	.. Arbovirus This code is used for treatment of e.g. yellow fever or viral encephalitis.	1994
	<i>Previous code(s): B12-A06</i>	

B14-A02A3	.. Herpesvirus e.g. cytomegalovirus, Epstein-Barr, chicken pox. 1994 <i>Previous code(s): B12-A06</i>	B14-A02B4	.. Rhabdovirus Including rabies. 1994 <i>Previous code(s): B12-A06</i>
B14-A02A4	.. Poxvirus 1994 <i>Previous code(s): B12-A06</i>	B14-A02B5	.. Coronavirus Including SARS, also coded as B14- K01D. 1994 <i>Previous code(s): B12-A06</i>
B14-A02A5	.. Hepatitis B virus 1994 <i>Previous code(s): B12-A06, B12-G02</i>	B14-A02B6	.. Togavirus Including rubella. 1994 <i>Previous code(s): B12-A06</i>
B14-A02A6	.. Papovavirus e.g. papilloma. 1994 <i>Previous code(s): B12-A06</i>	B14-A02B7	.. Reovirus e.g. rotavirus. 1994 <i>Previous code(s): B12-A06</i>
B14-A02A7	.. Hepatitis C treatment Now coded as B14-A02B9. 2002-2014	B14-A02B9	.. Flavivirus 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. 2005
B14-A02A8	.. Hepatitis D treatment 2002	B14-A02X	. Combating resistant viruses This code is applied in conjunction with one or more codes from section B14-A02 2013
B14-A02A9	.. Parvovirus Includes treatment of "Slapped cheek" syndrome. 2005	B14-A03	Antiprotozoal general and other 1994 <i>Previous code(s): B12-B04</i>
B14-A02B	. RNA Viruses general and other 1994 <i>Previous code(s): B12-A06</i>	B14-A03A	. Amoebicide 1994 <i>Previous code(s): B12-B01</i>
B14-A02B0	.. Calcivirus e.g. norovirus, lagovirus, sapovirus, feline calcivirus 2014	B14-A03B	. Antimalarial Plasmodium is the malarial parasite. 1994 <i>Previous code(s): B12-B03</i>
B14-A02B1	.. Retrovirus Including leuco- and oncoviruses, T- cell leukemia virus, HIV, Rous sarcoma. Non-antiviral AIDS treatment is coded B14-G01B. 1994 <i>Previous code(s): B12-A06, B12-G05, B12-G07</i>	B14-A03C	. Coccidiostat Includes Eimeria and Isospora. 1994 <i>Previous code(s): B12-B05</i>
B14-A02B2	.. (Para/ortho)Myxovirus 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. 1994 <i>Previous code(s): B12-A06</i>	B14-A03D	. Trichomonicide, histomonicide 1994 <i>Previous code(s): B12-B04</i>
B14-A02B3	.. Picornavirus 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. 1994 <i>Previous code(s): B12-A06, B12-G02</i>	B14-A03E	. Trypanocide i.e. Sleeping sickness. 1994 <i>Previous code(s): B12-B07</i>
		B14-A03F	. Other antiprotozoal 2005

B14-A03X	<ul style="list-style-type: none"> Combating resistant protozoa This code is applied in conjunction with one or more codes from section B14-A03. 	2014	B14-B03C	<ul style="list-style-type: none"> Tapeworm 	1994
B14-A04	Antifungal general and other	1994	B14-B03D	<ul style="list-style-type: none"> Distomicide, other fluke 	2005
B14-A04A	<ul style="list-style-type: none"> Aspergillus 	1994	B14-B03X	<ul style="list-style-type: none"> Combating resistant worms and helminths general This code is applied in conjunction with one or more codes from section B14-B03. 	2018
B14-A04B	<ul style="list-style-type: none"> Candida This organism commonly causes thrush. 	1994	B14-B04	Arthropodicide general and other Includes crustacicide, arachnidicide and millipede killing.	1994
	Previous code(s): B12-A02C			Previous code(s): B12-N01	
B14-A04C	<ul style="list-style-type: none"> Trichophyton, Microsporium This code covers treatment of e.g. ringworm, tinea, Athlete's foot. 	1994	B14-B04A	<ul style="list-style-type: none"> Acaricide Includes tickicides and miticides. 	1994
	Previous code(s): B12-A02C			Previous code(s): B12-B04	
B14-A04X	<ul style="list-style-type: none"> Combating resistant fungi This code is applied in conjunction with one or more codes from section B14-A04 	2013	B14-B04B	<ul style="list-style-type: none"> Insecticide general and other 	1994
				Previous code(s): B12-N02	
B14-A05	Antialgal	1994	B14-B04B1	<ul style="list-style-type: none"> Coleoptera Covers beetle killing. 	1994
	Previous code(s): B12-A02A			Previous code(s): B12-N02	
B14-B	PESTICIDES AND OTHER ANTIPARASITICS	1994	B14-B04B2	<ul style="list-style-type: none"> Dictyoptera Includes cockroach and termite killing. 	1994
				Previous code(s): B12-N02	
B14-B01	Pesticide general This code is applied only when type is unspecified or general.	1994	B14-B04B3	<ul style="list-style-type: none"> Diptera Includes house fly, mosquito and gnat killing. 	1994
	Previous code(s): B12-N01			Previous code(s): B12-N02	
B14-B02	Antiparasitic general This code is applied only when type is unspecified or general.	1994	B14-B04B4	<ul style="list-style-type: none"> Ephemeroptera Includes mayfly killing. 	1994
	Previous code(s): B12-B04			Previous code(s): B12-N02	
B14-B02X	<ul style="list-style-type: none"> Combating resistant parasites 	2020	B14-B04B5	<ul style="list-style-type: none"> Hemiptera Includes aphid killing. 	1994
				Previous code(s): B12-N02	
B14-B03	Vermicide, antihelmintic general and other	1994	B14-B04B6	<ul style="list-style-type: none"> Hymenoptera Includes bee, wasp and ant killing. 	1994
	Previous code(s): B12-B02			Previous code(s): B12-N02	
B14-B03A	<ul style="list-style-type: none"> Nematocide Including threadworm. 	1994	B14-B04B7	<ul style="list-style-type: none"> Lepidoptera Covers butterfly and moth killing. 	1994
	Previous code(s): B12-B02			Previous code(s): B12-N02	
B14-B03B	<ul style="list-style-type: none"> Schistosomicide 	1994			
	Previous code(s): B12-B06				

B14-B04B8	.. Orthoptera Includes locust killing. <i>Previous code(s): B12-N02</i>	1994
B14-B04B9	.. Siphonaptera Includes flea killing. <i>Previous code(s): B12-N02</i>	1994
B14-B04X	. Combating resistant arthropods This code is applied in conjunction with one or more codes from section B14-B04	2013
B14-B05	Arthropod repellent Covers insects, crustaceans, arachnids, millipedes, ticks and mites <i>Previous code(s): B12-L06</i>	1994
B14-B06	Arthropod attractant Covers insects, crustaceans, arachnids, millipedes, ticks and mites. Including pheromones used as attractants. <i>Previous code(s): B12-N03</i>	1994
B14-B07	Arthropod sterilant Covers insects, crustaceans, arachnids, millipedes, ticks and mites <i>Previous code(s): B12-K03</i>	1994
B14-B08	Antilichen <i>Previous code(s): B12-A02B</i>	1994
B14-B09	Rodenticide <i>Previous code(s): B12-N05</i>	1994
B14-B10	Avicide <i>Previous code(s): B12-N05</i>	1994
B14-B11	Piscicide <i>Previous code(s): B12-N05</i>	1994
B14-B12	Molluscicide Includes gastropodicides, slug, snail, bivalve and octopus killing. <i>Previous code(s): B12-N04</i>	1994
B14-B13	Animal repellent (other than insect) <i>Previous code(s): B12-N06</i>	1994
B14-B14	Lures, baits (other than insect pheromones) <i>Previous code(s): B12-N03</i>	1994

B14-C	ANAESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN	1994
B14-C01	Analgesic 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>	1994
B14-C02	Antigout <i>Previous code(s): B12-D07, B12-G03</i>	1994
B14-C03	Antiinflammatory general This code is used for treatment of general oedema 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>	1994
B14-C04	Antipyretic <i>Previous code(s): B12-D08</i>	1994
B14-C05	Antihypothermia <i>Previous code(s): B12-D08</i>	1994
B14-C06	Antirheumatic <i>Previous code(s): B12-D09</i>	1994
B14-C07	General anaesthetic <i>Previous code(s): B12-C01</i>	1994
B14-C08	Local anaesthetic <i>Previous code(s): B12-C02</i>	1994
B14-C09	Antiarthritic general and other <i>Previous code(s): B12-D03</i>	1994
B14-C09A	. Osteoarthritis <i>Previous code(s): B12-D03</i>	1994
B14-C09B	. Rheumatoid-arthritis <i>Previous code(s): B12-D03</i>	1994

B14-D	HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS *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. 1994	B14-D02A4	.. Antiprogestational This code also covers progestational antagonist/inhibitor activity and progestational receptor antagonist/inhibitor activities. 2005
B14-D01	Hormonal general and other* 1994 <i>Previous code(s): B12-G04</i>	B14-D02A5	.. Antiandrogenic This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities. 2005
B14-D01A	. Androgenic* 1994 <i>Previous code(s): B12-G04B</i>	B14-D02A6	.. Other antisteroid hormone This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities. 2005
B14-D01B	. Oestrogenic* 1994 <i>Previous code(s): B12-G04C</i>	B14-D02B	. Antipeptide hormone** 1994 <i>Previous code(s): B12-G01A</i>
B14-D01C	. Progestational* 1994 <i>Previous code(s): B12-G04D</i>	B14-D02B1	.. Melanocortin antagonist 2005
B14-D01D	. Other steroid* 1994 <i>Previous code(s): B12-G04</i>	B14-D02B2	.. Melanin concentrating hormone antagonist 2005
B14-D01E	. Peptide hormone activity* 1994 <i>Previous code(s): B12-G04</i>	B14-D03	Enzyme inhibitors general and other 1994 <i>Previous code(s): B12-G01B</i>
B14-D01E1	.. Melanocortin agonist Adrenocorticotrophic hormone agonist. 2005	B14-D04	Coenzyme inhibitors 1994 <i>Previous code(s): B12-G01B</i>
B14-D01E2	.. Melanin concentrating hormone agonist 2005	B14-D05	Antioxidoreductases general and other 1994 <i>Previous code(s): B12-G01B1</i>
B14-D02	Antihormonal general and other** 1994 <i>Previous code(s): B12-G01A</i>	B14-D05A	. Antioxidases 1994 <i>Previous code(s): B12-G01B1</i>
B14-D02A	. Antisteroid general and other** 1994 <i>Previous code(s): B12-G01A</i>	B14-D05B	. Antiperoxidases 1994 <i>Previous code(s): B12-G01B1</i>
B14-D02A1	.. Antialdosterone** 1994 <i>Previous code(s): B12-G01A</i>	B14-D05C	. Antioxygenases 1994 <i>Previous code(s): B12-G01B1</i>
B14-D02A2	.. Anticholesterol** 1994 <i>Previous code(s): B12-H03</i>	B14-D05D	. Antidehydrogenases, Antireductases 1994 <i>Previous code(s): B12-G01B1</i>
B14-D02A3	.. Antioestrogenic This code also covers estrogenic antagonist/inhibitor activity and oestrogen receptor antagonist/inhibitor activities. 2005	B14-D06	Antitransferases general and other Includes HIV integrase inhibitor. 1994 <i>Previous code(s): B12-G01B2</i>
		B14-D06A	. AntiDNA/RNA polymerase 1994 <i>Previous code(s): B12-G01B2</i>

B14-D06B	. Antireverse transcriptase <i>Previous code(s): B12-G01B2</i>	1994	B14-E02	Antidiarrhoeal <i>Previous code(s): B12-J04</i>	1994
B14-D06C	. Antikinase	2005	B14-E03	Antiflatulent <i>Previous code(s): B12-J03</i>	1994
B14-D07	Antihydrolases general and other <i>Previous code(s): B12-G01B3</i>	1994	B14-E04	Antihaemorrhoidal <i>Previous code(s): B12-J04</i>	1994
B14-D07A	. Antiesterases Including lipase, nuclease, restriction enzyme, sulphatase, phosphatase inhibitors. <i>Previous code(s): B12-G01B3</i>	1994	B14-E05	Antiemetic <i>Previous code(s): B12-D05</i>	1994
B14-D07A1	.. Antiphosphodiesterases	2005	B14-E06	Emetic <i>Previous code(s): B12-J06</i>	1994
B14-D07B	. Antiglycosidases Including amylase, cellulase, lactase inhibitors. <i>Previous code(s): B12-G01B3</i>	1994	B14-E07	Gastric secretion inhibitor <i>Previous code(s): B12-J02</i>	1994
B14-D07C	. Antiproteases, antipeptide hydrolases Including chymotrypsin, trypsin, papain, fibrinolysin, renin, collagenases, elastases inhibitors. Renin inhibitor used as hypotensive is coded B14-F02B1 only. <i>Previous code(s): B12-G01B3</i>	1994	B14-E08	Ulcer treatment (peptic, gastric, duodenal) Skin ulcers are coded B14-N17H. <i>Previous code(s): B12-E08</i>	1994
B14-D07C1	.. Antimetalloproteases	2005	B14-E09	Laxative <i>Previous code(s): B12-J07</i>	1994
B14-D08	Antilyases Including adeny cyclases, (de)carboxylases, aldolases, dehydratases inhibitors. <i>Previous code(s): B12-G01B4</i>	1994	B14-E10	Gastrointestinal dysfunction general and other <i>Previous code(s): B12-J01</i>	1994
B14-D09	Antiisomerases Including racemases, tautomerases, epimerases, mutases inhibitors. <i>Previous code(s): B12-G01B5</i>	1994	B14-E10A	. Oesophageal <i>Previous code(s): B12-J01</i>	1994
B14-D10	Antiligases Including synthetases, some carboxylases inhibitors. <i>Previous code(s): B12-G01B6</i>	1994	B14-E10B	. Gastric Includes gastritis. <i>Previous code(s): B12-J01</i>	1994
B14-E	DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM	1994	B14-E10C	. Bowel Including irritable and inflammatory bowel (e.g. IBS). <i>Previous code(s): B12-J01</i>	1994
B14-E01	Antacid <i>Previous code(s): B12-J03</i>	1994	B14-E10C1	.. Inflammatory bowel conditions	2005
			B14-E10D	. Dysentery <i>Previous code(s): B12-B01, B12-A01, B12-A06, B12-J04, B12-J05</i>	1994
			B14-E10E	. Gastrointestinal flora	2008
			B14-E11	Anabolic, anorexia treatment general <i>Previous code(s): B12-J01</i>	1994
			B14-E11A	. Anorexia	2005

B14-E11B	. Cachexia Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	2005
B14-E11C	. Malnutrition	2005
B14-E11D	. Bulimia	2005
B14-E12	Anorectic, obesity treatment (appetite depressant) <i>Previous code(s): B12-J02</i>	1994
B14-F	DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM *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
B14-F01	Cardioactive general and other <i>Previous code(s): B12-F01</i>	1994
B14-F01A	. Antiarrhythmic <i>Previous code(s): B12-F01A</i>	1994
B14-F01B	. Cardiac stimulant Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment. <i>Previous code(s): B12-F01B</i>	1994
B14-F01C	. Cardiac depressant <i>Previous code(s): B12-F01C</i>	1994
B14-F01D	. Antianginal <i>Previous code(s): B12-F02</i>	1994
B14-F01E	. Coronary dilator, coronary ischaemia treatment <i>Previous code(s): B12-F02</i>	1994
B14-F01F	. Ganglion blocker <i>Previous code(s): B12-F03</i>	1994
B14-F01G	. Restenosis treatment	2002
B14-F02	Circulatory active general and other <i>Previous code(s): B12-E01</i>	1994

B14-F02A	. Hypertensive (calcium agonists)* <i>Previous code(s): B12-F04</i>	1994
B14-F02B	. Hypotensive general and other <i>Previous code(s): B12-F05</i>	1994
B14-F02B1	.. Angiotensin converting enzyme inhibitor, angiotensin antagonists** This code covers renin inhibitors when used as hypotensives. <i>Previous code(s): B12-F05A</i>	1994
B14-F02B2	.. Calcium antagonists/entry blockers** <i>Previous code(s): B12-F05B, B12-G01</i>	1994
B14-F02C	. Vasoconstrictor <i>Previous code(s): B12-F06</i>	1994
B14-F02D	. Vasodilator, general ischaemia treatment <i>Previous code(s): B12-F07</i>	1994
B14-F02D1	.. Cerebral ischaemia treatment <i>Previous code(s): B12-F07, B12-C10</i>	1994
B14-F02D2	.. Pulmonary ischaemia treatment <i>Previous code(s): B12-K06</i>	1994
B14-F02E	. Lymphatic disease treatment <i>Previous code(s): B12-G03</i>	1994
B14-F02F	. Peripheral vascular disorder/angiogenic general	2002
B14-F02F1	.. Angiogenic	2002
B14-F02F2	.. Anti-angiogenic	2002
B14-F02F3	.. Peripheral vascular disorder	2002
B14-F03	Antianaemic This code covers treatment of blood cell ratio imbalance. <i>Previous code(s): B12-H01</i>	1994
B14-F04	Anticoagulant, antiaggregants, thrombolytic <i>Previous code(s): B12-H02</i>	1994
B14-F05	Reperfusion treatment	1994
B14-F06	Antilipaemic <i>Previous code(s): B12-H03</i>	1994

B14-F06A	. Dyslipidemia	2005	B14-G03	Immunomodulatory	1994
B14-F06B	. Hypertriglyceremia	2011		<i>Previous code(s): B12-A01,B12-A06,B12-D02B</i>	
B14-F07	Antiarteriosclerotic Includes atherosclerosis.	1994	B14-H	CANCER RELATED DRUGS 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.	1994
B14-F08	Coagulant	1994			
B14-F09	Hypoglycaemic Treatment of diabetic symptoms is coded B14-S04.	1994	B14-H01	Anticancer general and other	1994
	<i>Previous code(s): B12-H05</i>			<i>Previous code(s): B12-G07</i>	
B14-F10	Hyperglycaemic	1994	B14-H01A	. Leukaemia treatment	1994
	<i>Previous code(s): B12-H05</i>			<i>Previous code(s): B12-G05</i>	
B14-F11	Plasma and blood substitutes	1994	B14-H01B	. Antiproliferative, inhibitor of cell division, cytostatic	1994
	<i>Previous code(s): B12-H06</i>			<i>Previous code(s): B12-D07, B12-E08,B12-G07</i>	
B14-G	DRUGS ACTING ON THE IMMUNE SYSTEM	1994	B14-H01C	. Dermatological cancers	2005
B14-G01	Immunostimulant general and other	1994	B14-H01D	. Endocrine cancers	2005
	<i>Previous code(s): B12-A01,B12-A06</i>		B14-H01D1	.. Breast cancers	2005
B14-G01A	. Interferon inducing This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	1994	B14-H01D2	.. Thyroid cancers	2005
	<i>Previous code(s): B12-A06</i>		B14-H01E	. Gastrointestinal cancers	2005
B14-G01B	. AIDS treatment A drug which combats HIV is coded B14-A02B1.	1994	B14-H01E1	.. Colon cancers	2005
	<i>Previous code(s): B12-A06</i>		B14-H01E2	.. Oesophageal cancers	2005
B14-G02	Immunosuppressant general and other	1994	B14-H01E3	.. Gall bladder cancers	2005
	<i>Previous code(s): B12-D02B</i>		B14-H01E4	.. Intestinal cancers	2005
B14-G02A	. Antiallergic	1994	B14-H01E5	.. Hepatic cancers	2005
	<i>Previous code(s): B12-D02</i>		B14-H01E6	.. Pancreatic cancers	2005
B14-G02B	. Antianaphylactic	1994	B14-H01E7	.. Rectal cancers	2005
	<i>Previous code(s): B12-D02D</i>		B14-H01E8	.. Stomach cancers	2005
B14-G02C	. Graft/transplant rejection treatment	1994	B14-H01F	. Genitourinary cancers	2005
	<i>Previous code(s): B12-D02B</i>				
B14-G02D	. Autoimmune disease treatment	1994			
	<i>Previous code(s): B12-D02A</i>				

B14-H01F1	.. Cervical/uterine cancers	2005	B14-H06	Tumor sensitizers Search when sensitizer type is not specified.	2008
B14-H01F2	.. Kidney cancers	2005	B14-H06A	. Radiosensitizers	2016
B14-H01F3	.. Ovarian cancers	2005	B14-H06B	. Photosensitizers	2016
B14-H01F4	.. Prostate cancers	2005	B14-H06C	. Chemosensitizers	2021
B14-H01F5	.. Testicular cancers	2005	B14-H07	Hypoplasia and aplasia To be searched in the general case where the affected organ(s) are not specified.	2016
B14-H01F6	.. Bladder cancers	2005	B14-H00X	Treatment resistant cancers 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
B14-H01G	. Immunological cancers	2005	B14-J	DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS *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
B14-H01G1	.. Hodgkin's lymphoma	2005	B14-J01	CNS active general and other Covers terms such as cerebroprotective and neuroprotective. <i>Previous code(s): B12-C10</i>	1994
B14-H01G2	.. Non-Hodgkin's lymphoma	2005	B14-J01A	. Stimulants general and other <i>Previous code(s): B12-C06</i>	1994
B14-H01H	. Musculoskeletal cancers	2005	B14-J01A1	.. Antidepressant <i>Previous code(s): B12-C06</i>	1994
B14-H01H1	.. Osteocancers	2005	B14-J01A2	.. Analeptic <i>Previous code(s): B12-C03</i>	1994
B14-H01H2	.. Sarcoma	2005	B14-J01A3	.. Antiparkinsonian <i>Previous code(s): B12-C04</i>	1994
B14-H01J	. Neurological cancers	2005	B14-J01A4	.. Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, anti-amnesia, nootropics <i>Previous code(s): B12-C10, B12-G04A</i>	1994
B14-H01J1	.. Brain tumours	2005			
B14-H01K	. Oral and respiratory cancers	2005			
B14-H01K1	.. Buccal cavity and pharynx cancers	2005			
B14-H01K2	.. Larynx cancers	2005			
B14-H01K3	.. Lung cancers	2005			
B14-H01L	. Other cancers	2005			
B14-H01L1	.. Multiple myelomas	2005			
B14-H02	Mutagen, carcinogen <i>Previous code(s): B12-G07</i>	1994			
B14-H03	Apoptotic	2002			
B14-H04	Anti-apoptotic	2002			
B14-H05	Antiproliferative (non-cancerous) e.g. Hyperplasia.	2006			

B14-J01B	. Depressants general and other	1994	B14-J02D1	.. Alpha-adrenergic blocker**	1994
	<i>Previous code(s): B12-C05</i>			<i>Previous code(s): B12-E06A</i>	
B14-J01B1	.. Hypnotic	1994	B14-J02D2	.. Beta-adrenergic blocker**	1994
	<i>Previous code(s): B12-C07</i>			<i>Previous code(s): B12-E06B</i>	
B14-J01B2	.. Sedative	1994	B14-J02D3	.. Antidopaminergic**	1994
	<i>Previous code(s): B12-C08</i>			<i>Previous code(s): B12-E06</i>	
B14-J01B3	.. Antipsychotic, neuroleptic, antischizophrenic	1994	B14-J03	Serotonergic*	1994
	<i>Previous code(s): B12-C10,B12-E02</i>			<i>Previous code(s): B12-G04</i>	
B14-J01B4	.. Tranquiliser, anxiolytic	1994	B14-J04	Antiserotonergic**	1994
	<i>Previous code(s): B12-C10</i>			<i>Previous code(s): B12-G01</i>	
B14-J02	Autonomic NS active general and other	1994	B14-J05	Muscular active general and other (inotropic)	1994
	<i>Previous code(s): B12-E01</i>			<i>Previous code(s): B12-E02</i>	
B14-J02A	. Parasympathetic stimulants, mimetics general and other*	1994	B14-J05A	. Muscle relaxant (negatively inotropic)	1994
	<i>Previous code(s): B12-E05</i>			<i>Previous code(s): B12-E02</i>	
B14-J02A1	.. Cholinergic (acetyl choline potentiators)*	1994	B14-J05B	. Mydriatic/myopic/hyperopic	1994
	<i>Previous code(s): B12-E05</i>			<i>Previous code(s): B12-E03</i>	
B14-J02A2	.. Muscarinic*	1994	B14-J05C	. Muscle contractant (positively inotropic)	1994
	<i>Previous code(s): B12-E05</i>			<i>Previous code(s): B12-E02</i>	
B14-J02B	. Parasympathetic depressant, parasympatholytic general and other**	1994	B14-J05D	. Antispastic, antispasmodic, spasmolytic, spasm treatment	1994
	<i>Previous code(s): B12-E04</i>			<i>Previous code(s): B12-E02,B12-E04</i>	
B14-J02B1	.. Anticholinergic**	1994	B14-J05E	. Duchenne's muscular dystrophy treatment	2002
	<i>Previous code(s): B12-E04</i>				
B14-J02B2	.. Antimuscarinic**	1994	B14-J06	Convulsant	1994
	<i>Previous code(s): B12-E04</i>			<i>Previous code(s): B12-D10</i>	
B14-J02C	. Sympathetic stimulants general and other*	1994	B14-J07	Anticonvulsant	1994
	<i>Previous code(s): B12-E07</i>			<i>Previous code(s): B12-D04</i>	
B14-J02C1	.. Adrenergic, adrenaline potentiator (alpha and beta)*	1994	B14-K	DRUGS ACTING ON THE RESPIRATORY SYSTEM	1994
	<i>Previous code(s): B12-E07</i>				
B14-J02C2	.. Dopaminergic*	1994	B14-K01	Respiratory active general and other Including anoxia, cystic fibrosis and bronchitis treatment.	1994
	<i>Previous code(s): B12-E07</i>			<i>Previous code(s): B12-K06</i>	
B14-J02D	. Sympathetic depressants, sympatholytic general and other**	1994	B14-K01A	. Antiasthmatic	1994
	<i>Previous code(s): B12-E06</i>			<i>Previous code(s): B12-D02,B12-K02</i>	
			B14-K01B	. Antitussive	1994
				<i>Previous code(s): B12-K01</i>	

B14-K01C	. Bronchoconstrictor	1994	B14-L04	Prostaglandin, leukotriene, thromboxane agonist/mimetic	1994
	<i>Previous code(s): B12-K06</i>				
B14-K01D	. Bronchodilator	1994	B14-L05	Histaminergic, histamine agonist/mimetic	1994
	<i>Previous code(s): B12-K02</i>				
B14-K01E	. Decongestant, expectorant, mucolytic		B14-L06	Antagonist, inhibitor, antimetabolite general and other	1994
	From 2006, the scope of this code has been extended to cover decongestants in addition to expectorants and mucolytics.	1994		<i>Previous code(s): B12-G01</i>	
	<i>Previous code(s): B12-K05</i>		B14-L06B	. Cannabinoid antagonist	2006
B14-K01F	. Adult respiratory distress syndrome (ARDS)	2002	B14-L06C	. PPAR antagonist Peroxisome proliferator-activated receptor antagonist.	2006
B14-L	AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE		B14-L06D	. Nitric oxide antagonist	2007
	The codes in this section are also used for drugs acting at the receptor, e.g. histamine receptor agonist is coded B14-L05.	1994	B14-L07	Interleukin antagonist/inhibitor	1994
				<i>Previous code(s): B12-G01</i>	
B14-L01	Agonist/mimetic general and other	1994	B14-L08	Prostaglandin, leukotriene, thromboxane antagonist/inhibitor	1994
				<i>Previous code(s): B12-G01</i>	
B14-L01A	. Enzyme agonist/mimetic	2005	B14-L09	Histamine antagonist/inhibitor general and other	1994
				<i>Previous code(s): B12-D06</i>	
B14-L01A1	.. Oxidoreductase agonist	2007	B14-L10	H1 antagonist/inhibitor	1994
				<i>Previous code(s): B12-D06B</i>	
B14-L01A2	.. Transferase agonist	2007	B14-L11	H2 antagonist/inhibitor	1994
				<i>Previous code(s): B12-D06A</i>	
B14-L01A3	.. Hydrolase agonist	2007	B14-L12	Proton pump inhibitors	2006
				<i>Previous code(s): B14-L06</i>	
B14-L01A4	.. Lyase agonist	2007			
B14-L01A5	.. Isomerase agonist	2007	B14-M	ANTIDOTES	1994
				<i>Previous code(s): B12-J05</i>	
B14-L01A6	.. Synthetase agonist	2007	B14-M01	Antidote general and other To be searched for treating chronic and habitual conditions: treating acute intoxication is searched under B14-M03.	1994
				<i>Previous code(s): B12-J05</i>	
B14-L01B	. Cannabinoid agonist	2006	B14-M01A	. Alcoholism treatment	1994
				<i>Previous code(s): B12-J05A</i>	
B14-L01C	. PPAR agonist Peroxisome proliferator-activated receptor agonist.	2006	B14-M01A1	.. Alcoholism treatment using replacement therapy	2009
B14-L01D	. Nitric oxide agonist	2007	B14-M01B	. Antismoking	1994
				<i>Previous code(s): B12-J05B</i>	
B14-L02	Angiotensin agonist/mimetic N.B. Angiotensin antagonists/inhibitors are coded B14-F02B1.	1994			
B14-L03	Interleukin agonist/mimetic	1994			

B14-M01B1	.. Antismoking treatment using replacement therapy e.g. nicotine replacement patches and gum 2009	B14-N02A	. Balance related disorder and vestibular disorder 2008
B14-M01C	. Antidrug addiction Excluding addiction to nicotine and alcohol. 1994 <i>Previous code(s): B12-J05</i>	B14-N03	Eye disorder treatment 1994 <i>Previous code(s): B12-L04</i>
B14-M01C1	.. Drug addiction treatment using replacement therapy e.g. methadone treatment 2009	B14-N03A	. Glaucoma 2005
B14-M01D	. Antiheavy metal poisoning 1994 <i>Previous code(s): B12-J05C</i>	B14-N04	Nose disorder treatment 1994 <i>Previous code(s): B12-L04</i>
B14-M01E	. Pesticide/herbicide antidote Includes herbicide safeners prior to 2009. 1994 <i>Previous code(s): B12-J05D</i>	B14-N05	Mouth/throat disorder treatment 1994 <i>Previous code(s): B12-L04</i>
B14-M01F	. Protecting plants from poisons 1994-2015	B14-N05A	. Mouth disorder E.g. cold sores and xerostomia (chronic dry mouth). 2005
B14-M02	Pharmaceutical antidote general 2006	B14-N05B	. Throat disorder Covers throat disorders but excludes disorders of the oesophagus. 2005
B14-M02A	. Chemoprotectant 2006	B14-N06	Dental general and other 1994 <i>Previous code(s): B12-L03</i>
B14-M02B	. Radioprotectant 2006	B14-N06A	. Anticaries/antiplaque 1994 <i>Previous code(s): B12-A01,B12-L03</i>
B14-M03	Recreational drug antidote general and unspecified To be searched for treating acute intoxication, treating chronic conditions is searched under B14-M01. 2016	B14-N06B	. Periodontal Includes gingivitis. 1994 <i>Previous code(s): B12-L03,B12-L04</i>
B14-M03A	. Sobering agent for acute alcohol intoxication 2016	B14-N07	Urogenital/anorectal disease treatment general and other 1994 <i>Previous code(s): B12-A05, B12-D07, B12-G03, B12-G04</i>
B14-M03B	. Antidote for acute recreational drug intoxication other than alcohol 2016	B14-N07A	. Prostate 1994 <i>Previous code(s): B12-G03,B12-G04</i>
B14-N	ORGANS 1994	B14-N07B	. Cystitis 1994 <i>Previous code(s): B12-D07</i>
B14-N01	Bone disorder treatment, osteoporosis 1994 <i>Previous code(s): B12-J08</i>	B14-N07C	. Venereal 1994 <i>Previous code(s): B12-A05</i>
B14-N01A	. Osteoporosis 2005	B14-N07D	. Incontinence treatment 1994 <i>Previous code(s): B12-G03</i>
B14-N01B	. Fractures, disorders of healing and osteogenesis 2005	B14-N08	Diuretic 1994 <i>Previous code(s): B12-G03</i>
B14-N02	Ear disorder treatment 1994 <i>Previous code(s): B12-L04</i>	B14-N09	Antidiuretic 1994 <i>Previous code(s): B12-G03</i>

B14-N10	Kidney	1994	B14-N17D	. Acne	1994
	<i>Previous code(s): B12-G03</i>			<i>Previous code(s): B12-A07</i>	
B14-N11	Thyroid	1994	B14-N17E	. Dandruff and seborrhoea	2005
	<i>Previous code(s): B12-G06</i>		B14-N17F	. Antiscarring	2005
B14-N12	Liver	1994	B14-N17G	. Pruritis	2008
	<i>Previous code(s): B12-G02</i>		B14-N17H	. Dermal ulcers	2019
B14-N13	Pancreas	1994		Also includes cold sores, which are additionally coded with B14-A02A3.	
	<i>Previous code(s): B12-G02</i>		B14-N18	Mammary gland	2002
B14-N14	Uterus	1994		Including mastitis.	
	Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under B14-P01B.		B14-N19	Nail disease treatment	2020
	<i>Previous code(s): B12-E09</i>			Fungal nail diseases also search under B14-A04.	
B14-N15	Spleen	1994			
	<i>Previous code(s): B12-G02</i>		B14-P	DRUGS ACTING ON THE REPRODUCTIVE SYSTEM	1994
B14-N16	Brain and spinal cord	1994	B14-P01	Contraceptive general and other	1994
	Including stroke, meningitis, encephalitis and other prion type diseases.			<i>Previous code(s): B12-K03</i>	
	<i>Previous code(s): B12-C10,B12-E01</i>		B14-P01A	. Male, spermicide	1994
B14-N16A	. Bovine spongiforme encephalopathy (BSE) ("Mad cow disease")	2002		<i>Previous code(s): B12-K03</i>	
B14-N16B	. Creutzfeld Jakob disease (CJD)	2002	B14-P01B	. Female, abortifacient, antioviulatory	1994
B14-N16C	. Kuru	2005		<i>Previous code(s): B12-K03</i>	
B14-N16D	. Scrapie	2005	B14-P02	Infertility treatment	1994
	A fatal degenerative disease affecting the CNS of sheep and goats.		B14-P03	Antibabortive	1994
				<i>Previous code(s): B12-E09</i>	
B14-N17	Skin treatment general and other	1994	B14-P04	Sexual dysfunction	2006
	Fungal skin diseases are coded under B14-A04.			Sexual dysfunction general.	
	<i>Previous code(s): B12-A07</i>		B14-P04A	. Male sexual dysfunction	2006
B14-N17A	. Burn	1994	B14-P04B	. Female sexual dysfunction	2006
	<i>Previous code(s): B12-A07</i>		B14-P05	Menopause/andropause and related symptoms	2016
B14-N17B	. Wound other (physical trauma)	1994		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.	
	<i>Previous code(s): B12-A07</i>				
B14-N17C	. Psoriasis, dermatitis	1994			
	<i>Previous code(s): B12-A07</i>				

B14-R	COSMETICS	1994	B14-S07	Traumatic shock	1994
	<i>Previous code(s): B12-L02</i>			<i>Previous code(s): B12-C10</i>	
B14-R01	Cosmetic general and other	1994	B14-S08	Antioxidant/free radical scavenger	1994
	<i>Previous code(s): B12-L02</i>				
B14-R02	Hair preparation	1994	B14-S09	Synergist	1994
	<i>Previous code(s): B12-L05</i>			<i>Previous code(s): B12-C09</i>	
B14-R03	Antiperspirant	1994	B14-S10	Cot death	1994
	<i>Previous code(s): B12-L01</i>				
B14-R04	Perfume	1994	B14-S11	Vaccine general	1994
	<i>Previous code(s): B12-L07</i>			<i>Previous code(s): B02-V02</i>	
B14-R05	Sunscreen agent	1994	B14-S11A	. Antiviral vaccine	1994
	<i>Previous code(s): B12-L08</i>			<i>Previous code(s): B02-V02</i>	
B14-S	MISCELLANEOUS ACTIVITY TERMS	1994	B14-S11B	. Other antimicrobial vaccine e.g. antibacterial vaccine.	1994
				<i>Previous code(s): B02-V02</i>	
B14-S01	Multiple sclerosis treatment, demyelinating diseases	1994	B14-S11B1	.. Antibacterial vaccine	2005
	<i>Previous code(s): B12-E01</i>				
B14-S02	Dwarfism treatment	1994	B14-S11B2	.. Antiprotozoal vaccine	2005
	<i>Previous code(s): B12-G04</i>				
B14-S03	Gene therapy general	1994	B14-S11B3	.. Antiparasitic vaccine	2005
B14-S03A	. Gene therapy	2002	B14-S11C	. Anticancer vaccine	1994
				<i>Previous code(s): B02-V02</i>	
B14-S03B	. Antisense therapy	2002	B14-S11D	. Vaccine type	2005
B14-S03C	. RNA interference	2005	B14-S11D1	.. Whole-killed (inactive) vaccine	2005
B14-S03D	. shRNA Interference	2008	B14-S11D2	.. Live-attenuated (weakened) vaccine	2005
B14-S04	Diabetes This code is used when a drug targets the symptoms and associated disorders. Hypoglycemia is coded B14-F09.	1994	B14-S11D3	.. Synthetic/genetically engineered vaccine	2005
	<i>Previous code(s): B12-H05</i>				
B14-S04A	. Type II diabetes Also known as adult onset diabetes or non-insulin dependent diabetes.	2005	B14-S11E	. Therapeutic vaccine other Vaccine other than antimicrobial or anticancer e.g. immunocontraceptive or antiasthma vaccine. Unspecified vaccines should be searched under the general code B14-S11.	2015
B14-S05	Shock treatment general (excluding anaphylactic) Anaphylactic shock is coded B14-G02B.	1994	B14-S12	Veterinary Applied with other activity code(s) to indicate specific veterinary as opposed to medical use.	1994
	<i>Previous code(s): B12-A07</i>			<i>Previous code(s): B12-L09</i>	
B14-S06	Toxic (septic) shock	1994			
	<i>Previous code(s): B12-A01,B12-A06</i>				

B14-S13	Metabolic disorders Includes enzyme deficiencies and conditions arising from such.	2005
B14-S13A	. Acidosis	2005
B14-S14	Joint disorders general Includes conditions affecting tendons and bursa.	2005
B14-S14A	. Cartilage and connective tissue disorders	2009
B14-S14B	. Soft tissue disorders	2009
B14-S15	Broad formulation Patent is concerned with the formulation type rather than the drugs contained in it.	2005
B14-S16	Many diseases treated More than 15 diseases are said to be treated. Specific codes for the individual disease are still included.	2005
B14-S18	Drug combination Used when specific combination of drugs is claimed.	2006
B14-S20	Genetic disorder	2006
B14-S20A	. Chromosomal abnormality disorder	2006
B14-S20B	. Fabry disease	2015
B14-S20C	. Hunter syndrome	2015
B14-S21	Cell therapy	2006
B14-S22	Prophylaxis Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder	2009
B14-S23	Unspecified activity 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.	2009

B14-S24	Pediatrics/geriatrics Includes treatment for adolescents.	2009
B14-S25	Chemotherapy	2010
B14-S26	Radiotherapy	2010
B14-S27	Electromagnetic therapy Includes ultrasound, and photo therapy using high energy photons. Also includes electrical stimulation.	2010
B14-S28	Prodrugs Applied only when the prodrug is the novelty of the invention.	2012
B14-Y	GREEN TECHNOLOGY Used when processes/productions are kinder to the environment. Also includes environmentally friendly apparatus.	2006
B14-Z	GREEN FORMULATION Used when formulations are kinder to the environment. Includes biodegradable.	2012

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.

B15-A	A VITAMINS	
B15-A00	Vitamin A and carotenoids <i>previously coded B03-A</i>	2011
B15-A00A	. Modified vitamin A and carotenoids	2011
B15-B	B VITAMINS	
B15-B00	B vitamins general	2011
B15-B00A	. Modified B vitamins general	2011
B15-B01	Vitamin B1 (thiamine) <i>previously coded B03-B</i>	2011
B15-B01A	. Modified vitamin B1 (thiamine)	2011
B15-B02	Vitamin B2 (riboflavin) <i>previously coded B03-C</i>	2011
B15-B02A	. Modified vitamin B2 (riboflavin)	2011
B15-B06	Vitamin B6 (pyridoxine) <i>previously coded B03-D</i>	2011
B15-B06A	. Modified vitamin B6 (pyridoxine)	2011
B15-B12	Vitamin B12 and cobalamine <i>previously coded B03-E</i>	2011
B15-B12A	. Modified vitamin B12 and cobalamine	2011
B15-C	C VITAMINS	
B15-C00	Vitamin C (ascorbic acid) <i>previously coded B03-F</i>	2011
B15-C00A	. Modified vitamin C (ascorbic acid)	2011

B15-D	D VITAMINS	
B15-D00	D vitamins general <i>previously coded B03-G</i>	2011
B15-D00A	. Modified D vitamins general	2011
B15-D01	Vitamin D1	2011
B15-D01A	. Modified vitamin D1	2011
B15-D02	Vitamin D2	2011
B15-D02A	. Modified vitamin D2	2011
B15-D03	Vitamin D3	2011
B15-D03A	. Modified vitamin D3	2011
B15-D04	Vitamin D4	2020
B15-D04A	. Modified vitamin D4	2020
B15-D05	Vitamin D5	2020
B15-D05A	. Modified vitamin D5	2020
B15-E	E VITAMINS	
B15-E00	Vitamin E, tocopherols, tocotrienols Includes Tocodienols and Tocotrienols. <i>previously coded B03-H</i>	2011
B15-E00A	. Modified vitamin E and tocopherols	2011
B15-K	K VITAMINS	
B15-K00	K vitamins general <i>previously coded B03-J</i>	2011
B15-K00A	. Modified K vitamins general	2011
B15-K01	Vitamin K1	2011
B15-K01A	. Modified vitamin K1	2011
B15-K02	Vitamin K2	2011
B15-K02A	. Modified vitamin K2	2011
B15-K03	Vitamin K3	2016
B15-K03A	. Modified vitamin K3	2016

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

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 C14. 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-di-hydroxyethyl (specific subset of Y).

C01-A	1,3,5(10)-TRIENES
C01-A01	Estrones (3-ol, 17-one)
C01-A02	Estradiols (3,17-diol)
C01-A03	Others
C01-B	RING 'A' DIENES
C01-B01	Prednisones (3,11-dione; 17-ol; 17-Z)
C01-B02	Prednisolones (3-one; 11,17-diol; 17-Z)
C01-B03	Other 1,4-dienes
C01-B04	Others

C01-C	RING 'A' MONOENES
C01-C01	Cortisones (3,11-dione; 17-ol; 17-Z)
C01-C02	Cortisols (3-one; 11,17-diol; 17-Z)
C01-C03	17-hydroxylprogesterones (3-one; 17-acetyl)
C01-C04	Progesterones (3-one; 17-acetyl)
C01-C05	Testosterones (3-one; 17-ol)
C01-C06	Pregn(3 or 4)enes (17-Y)
C01-C07	Pregn(1 or 2)enes (17-Y)
C01-C08	Pregn(5(10) or 1(10))enes (17-Y)
C01-C09	Androst(3 or 4)enes
C01-C10	Androst(1 or 2)enes
C01-C11	Androst(5(10) or 1(10))enes
C01-D	SATURATED RING 'A'
C01-D01	Pregnanes (17-Y) Including cardenolides and digoxin.
C01-D02	Androstanes
C01-E	
C01-E	Steroids no structure 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.

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

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

C03-A	A and carotenoids <i>now coded C15-A00+</i>	retired end 2010
C03-B	B1 (thiamin) <i>now coded C15-B01+</i>	retired end 2010
C03-C	B2 (riboflavin) <i>now coded C15-B02+</i>	retired end 2010
C03-D	B6 (pyridoxine) <i>now coded C15-B06+</i>	retired end 2010
C03-E	B12 and cobalamine <i>now coded C15-B12+</i>	retired end 2010
C03-F	C (ascorbic acid) <i>now coded C15-C00+</i>	retired end 2010
C03-G	D (calciferol) <i>now coded C15-D00+</i>	retired end 2010
C03-H	E and tocopherols <i>now coded C15-E00+</i>	retired end 2010
C03-J	Vitamin K 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
C03-K	Vitamin P and others 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
C03-L	General <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
C04-A01	Belladonna Including tropanes and scopolamines.
C04-A02	Cinchona Including quin(id)ines.
C04-A03	Ergot Including lysergic acid.
C04-A04	Opium Including morphines and morphinans from 198601 but excluding apomorphine.
C04-A05	Rauwolfia Including yohimbanes.
C04-A06	Xanthines i.e. 2,6-dioxo-purines.
C04-A07A	. Other alkaloids 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.

1965

C04-A07A1	.. Vinca alkaloids Includes vincristine, vinblastine, vinorelbine and vindesine. <i>Previous code(s) : C06-D18</i>	2010
C04-A07B	. Derris e.g. rotenone.	1965
C04-A07C	. Pyrethrins	1965
C04-A07D	. Peat, straw, cereal, seeds, bran, whole plants, juice <i>Now coded as: C04-A08, C04-A09</i>	1965-1993
C04-A07D1	.. Peat, humic acid <i>Now coded as: C04-A09J</i>	1986-1993
C04-A07D2	.. Seeds, husks from seeds, seedmeal, cereal, grain <i>Now coded as: C04-A09F</i>	1986-1993
C04-A07D3	.. Wood shavings, bark, sawdust <i>Now coded as: C04-A09G</i>	1986-1993
C04-A07D4	.. Grass, straw, hay, plant stems, sap produced by pressing Excluding C04-A07D3. <i>Now coded as: C04-A09H</i>	1986-1993
C04-A07D5	.. Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture Excluding C04-A07D4. C11-A is also coded. <i>Now coded as: C04-A08+, C04-A09A, C04-A09B, C04-A09D</i>	1986-1993
C04-A07E	. Glycosides, saponins 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.	1965
C04-A07F	. Plant extract general <i>Now coded as: C04-A10</i>	1965-1993
C04-A07F1	.. Mushrooms, toadstools extracts <i>Now coded as: C04-A10A</i>	1986-1993
C04-A07F2	.. Other plant extracts <i>Now coded as: C04-A10B+, C04-A09C</i>	1986-1993

C04-A08 #	Plant divisions and whole plants general and other E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded C04-F08. <i>Previous code(s): C04-A07D</i>	C04-A08F #	. Gymnosperms <i>Previous code(s): C04-A07D5, C04-A08C1</i>
	1994		2012
C04-A08A #	. Bryophytes e.g. liverworts and mosses. <i>Previous code(s): C04-A07D5</i>	C04-A08F1 #	.. Pinophyta (conifers)
	1994		2012
C04-A08A1 #	.. Marchantiophyta (liverworts)	C04-A08F2 #	.. Ginkgophyta
	2012		2012
C04-A08A2 #	.. Bryophyta (mosses)	C04-A08F3 #	.. Cycadophyta (cycads)
	2012		2012
C04-A08A3 #	.. Anthocerotophyta (hornworts)	C04-A08F4 #	.. Gnetophyta
	2012		2012
C04-A08B #	. Pteridophytes e.g. ferns. <i>Previous code(s): C04-A07D5</i>	C04-A08G #	. Angiosperms <i>Previous code(s): C04-A07D5, C04-A08C2</i>
	1994		2012
C04-A08B1 #	.. Psilotopsida	C04-A08G1 #	.. Monocots
	2012		2012
C04-A08B2 #	.. Equisetopsida	C04-A08G2 #	.. Dicots
	2012		2012
C04-A08B3 #	.. Marattiopsida	C04-A09 #	Plant parts general and other Plant parts derived from specific plant species are additionally coded in C04-A08. <i>Previous code(s): C04-A07D</i>
	2012		1994
C04-A08B4 #	.. Polypodiopsida	C04-A09A #	. Leaves <i>Previous code(s): C04-A07D5</i>
	2012		1994
C04-A08C #	. Spermatophytes <i>Previous code(s): C04-A07D5</i>	C04-A09B #	. Flowers and parts Excluding pollen. <i>Previous code(s): C04-A07D5</i>
	1994-2011		1994
C04-A08C1 #	.. Gymnosperms e.g. conifers. <i>Previous code(s): C04-A07D5, now coded as C04-A08F+</i>	C04-A09C #	. Pollen <i>Previous code(s): C04-A07F, C04-B04C2</i>
	1994-2011		1994
C04-A08C2 #	.. Angiosperms e.g. flowering plants, grass, dicotyledons and monocotyledons. <i>Previous code(s): C04-A07D5, now coded as C04-A08G+</i>	C04-A09D #	. Roots <i>Previous code(s): C04-A07D5</i>
	1994-2011		1994
C04-A08D #	. Fungi (higher) e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. <i>Previous code(s): C04-A07D5</i>	C04-A09F #	. Seeds, seed husks, seed meal, cereal, grain, nuts, bran <i>Previous code(s): C04-A07D2</i>
	1994		1994
C04-A08D1 #	.. Ascomycota	C04-A09G #	. Wood, shavings, bark, sawdust <i>Previous code(s): C04-A07D3</i>
	2012		1994
C04-A08D2 #	.. Basidiomycota	C04-A09H #	. Straw, hay, stems, sap, plant resin includes propolis <i>Previous code(s): C04-A07D4</i>
	2012		1994
		C04-A09J #	. Peat, humic acid <i>Previous code(s): C04-A07D1</i>
			1994

C04-A09K #	. Fruit	2006
	<i>Previous codes(s): C04-A09</i>	
C04-A10 #	Plant extracts general and other	
	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>	
C04-A10A #	. Fungal extracts	
	e.g. mushrooms, toadstools but not unicellular fungi.	1994
	<i>Previous code(s): C04-A07F1</i>	
C04-A10B #	. Leaf extracts	1994
	<i>Previous code(s): C04-A07F2</i>	
C04-A10C #	. Flower extracts	
	e.g. extracts from flower parts excluding pollen.	1994
	<i>Previous code(s): C04-A07F2</i>	
C04-A10D #	. Pollen extract	1994
	<i>Previous code(s): C04-A07F, C04-B04C2</i>	
C04-A10F #	. Root extracts	1994
	<i>Previous code(s): C04-A07F2</i>	
C04-A10G #	. Seed, seed husk, seed meal, cereal, grain and nut extracts	1994
	<i>Previous code(s): C04-A07F2</i>	
C04-A10H #	. Wood shaving, bark, sawdust extracts	1994
	<i>Previous code(s): C04-A07F2</i>	
C04-A10J #	. Straw, hay, stem and sap extracts	1994
	<i>Previous code(s): C04-A07F</i>	
C04-A10K #	. Fruit extract	2006
C04-A98	Patent with herbal composition	2012
C04-A99	Patent with hybrid plant	2012
C04-B	ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS	
C04-B01A	. Halogenated oils, waxes, etc.	1965
C04-B01B	. Fats, lanolin, lipids, glycolipids	1965
C04-B01C	. Oils and waxes general	

C04-B01C1	.. Vegetable oils and waxes	1986
	e.g. sunflower oil, soy bean oil, cotton seed oil.	
C04-B01C2	.. Animal oils and waxes	1986
	e.g. spermaceti, cod liver oil, honeycomb and beeswax.	
C04-B01C3	.. Mineral oils and waxes	
	e.g. vaseline, petroleum, liquid paraffin and synthetic oils.	1986
C04-B01D	. Other oil and wax derivatives	
	Oils and waxes that are hydrogenated and/or modified by a polymer. May be applied in conjunction with codes from B04-B01C	2010
	<i>Previous code(s): C04-B01C</i>	
C04-B02A	. Gibberellins	1965
C04-B02B	. Microorganisms general	1965-1993
	<i>Now coded as: C04-F01</i>	
C04-B02B1	.. Bacteria	1986-1993
	e.g. Staphylococcus, Bacillus, Rickettsia.	
	<i>Now coded as: C04-F10+</i>	
C04-B02B2	.. Fungi	1986-1993
	e.g. Candida, Aspergillus, Streptomyces.	
	<i>Now coded as: C04-F09+</i>	
C04-B02B3	.. Algae	1986-1993
	e.g. Spirogyra.	
	<i>Now coded as: C04-F08</i>	
C04-B02B4	.. Viruses	1986-1993
	<i>Now coded as: C04-F11</i>	
C04-B02B5	.. Others	1986-1993
	e.g. Mycoplasma.	
	<i>Now coded as: C04-F06, C04-F07, C04-F10A4</i>	
C04-B02C	. Enzymes general	
	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.	1965-1993
	<i>Now coded as: C04-L01</i>	

C04-B02C1	.. Coenzymes 1977-1993 <i>Now coded as: C04-L02</i>	C04-B02D4	.. Pituitary gland hormones e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adreno-corticotrophic hormone (ACTH) corticotrophic, follicle stimulating (FSH), interstitial call stimulating, prolactin, mammothrophin, somatotropin, thyroid stimulating, thyrotrophic, thyrotropin, vasopressin, chorionic gonadotropin, luteinising, growth and their derivatives. 1986-1993 <i>Now coded as: C04-J05+</i>
C04-B02C2	.. Oxidoreductases 1977-1993 <i>Now coded as: C04-L03+</i>	C04-B02E	. Prostaglandins From 197501 prostaglandins are coded C04-B02E only, and no longer according to their chemical structure. 1975-1993 <i>Now coded as: C04-H03+</i>
C04-B02C3	.. Hydrolases e.g. chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodorrinase, collagenase, plasmin, plasminogen. 1977-1993 <i>Now coded as: C04-L05+</i>	C04-B03	Nucleosides and nucleotides general 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. 1965
C04-B02C4	.. Transferases 1986-1993 <i>Now coded as: C04-L04+</i>	C04-B03A	. Nucleosides e.g. Adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded C04-B03D. 1986
C04-B02C5	.. Lyases 1986-1993 <i>Now coded as: C04-L06</i>	C04-B03B	. Nucleotides e.g. Adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded C04-B03E. 1986
C04-B02C6	.. Isomerases 1986-1993 <i>Now coded as: C04-L07</i>	C04-B03C	. Oligonucleotides 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): C04-B04A1, C04-B03B</i>
C04-B02C7	.. Ligases (synthetases) 1986-1993 <i>Now coded as: C04-L08</i>	C04-B03D	. Modified nucleosides 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: C04-B03A</i>
C04-B02D	. Hormones and steroids general 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. 1965-1993 <i>Now coded as: C04-J01, C04-J02, C04-J03, C04-J04, C04-J05</i>		
C04-B02D1	.. Steroidal hormones (no complete structure) 1986-1993 <i>Now coded as: C04-J02</i>		
C04-B02D2	.. Pancreatic hormones 1986-1993 <i>Now coded as: C04-J03+</i>		
C04-B02D3	.. Thyroid and parathyroid hormone e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives. 1986-1993 <i>Now coded as: C04-J04+</i>		

C04-B03E	. Modified nucleotides E.g. C in ring, open chain structure. Compounds where the only modification is a deoxyribose sugar are searched as nucleotides. <i>Previous code: C04-B03B</i>	2005	C04-B04C	. Antigens, general Antibody (pre-1994) <i>Previous code(s): C04-G01</i>	1965
C04-B03F	. Modified Oligonucleotides Compounds where the only modification is one or more deoxyribose sugars are searched as oligonucleotides.	2018	C04-B04C1	.. Microbial antigen When used as a vaccine then C02-V02 is coded (before 1994) or C14-S11+ (from 1994).	1986
C04-B04A	. Proteins, nucleic acids, cells general For antigens see C04-B04C. <i>Now coded as: C04-E01, C04-F01, C04-N04, C04-N05, C04-N06</i>	1965-1993	C04-B04C2	.. Other antigens Material which is antigenic is also coded.	1986
C04-B04A1	.. DNA, vector DNA, RNA, nucleic acids. <i>Now coded as: C04-E02+, C04-E03+, C04-E04, C04-E05, C04-E06, C04-E07, C04-E08</i>	1986-1993	C04-B04C3	.. Microbial antibody <i>Now coded as: C04-G07, C04-G08, C04-G09</i>	1986-1993
C04-B04A2	.. Plant cells <i>Now coded as: C04-F08</i>	1986-1993	C04-B04C4	.. Anticancer antibody <i>Now coded as: C04-G05</i>	1986-1993
C04-B04A3	.. Animal cells For blood cells see C04-B04D, microbial cells see C04-B02B. <i>Now coded as: C04-F02, C04-F05, C04-F07</i>	1986-1993	C04-B04C5	.. Monoclonal antibody <i>Now coded as: C04-G21</i>	1986-1993
C04-B04A4	.. Proteins from plants and mushrooms e.g. gluten. <i>Now coded as: C04-N01+</i>	1986-1993	C04-B04C6	.. Other antibody including immunoglobulin and haemagglutinin <i>Now coded as: C04-G02, C04-G03, C04-G04, C04-G06, C04-G10, C04-G20, C04-G22</i>	1986-1993
C04-B04A5	.. Proteins from microorganisms <i>Now coded as: C04-N03+</i>	1986-1993	C04-B04C7	.. Haptens A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule. <i>Previous code(s): C04-B04C</i>	1994
C04-B04A6	.. Proteins from animals or insects e.g. gelatin, egg white, glycoproteins, gamma globulins, silk. <i>Now coded as: C04-N02+</i>	1986-1993	C04-B04C8	.. Cancer antigen	2005
C04-B04B	. Animal excrements general	1965	C04-B04C9	.. Allergen 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
C04-B04B1	.. Urine <i>Previous code(s): C04-B04B</i>	1994	C04-B04D	. Blood and derivatives general	1965
C04-B04B2	.. Faeces <i>Previous code(s): C04-B04B</i>	1994	C04-B04D1	.. Blood cells and derivatives Including leucocytes, erythrocytes, lymphocytes). These are not coded under C04-B04A3. <i>Now coded as: C04-F04</i>	1986-1993

C04-B04D2	.. Blood proteins Excluding blood factors. e.g. serum albumin, haemoglobin, fibrinogen (prior to 198601 see also C04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under C04-H19. 1986	C04-B04M	. Other non-mammalian extracts This code is used for non-mammalian extracts only (from 1994). For whole animals see C04-P. 1965
C04-B04D3	.. Blood factors 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>	C04-B04M1	.. Arthropod 2012
C04-B04D4	.. Blood serum, plasma Excluding C04-B04D2/3. 1986	C04-B04M2	.. Amphibian 2012
C04-B04D5	.. Whole blood Excluding C04-B04D1 to C04-B04D4. 1986	C04-B04M3	.. Reptile 2012
C04-B04E	. Bone, marrow, nails, skin, teeth Includes skin and hair as well as extracts. Also includes horn extract, shell extract and shell powder 1965, 2010	C04-B04M4	.. Fish 2012
C04-B04F	. Enzyme inhibitors 1965-1993 <i>Now coded as: C04-M01</i>	C04-B04M5	.. Avian 2012
C04-B04G	. Gland extracts Includes saliva, snake venom and musk. 1965	C04-B04M6	.. Trochozoa Includes annelids (worms) and molluscs. 2017
C04-B04H	. Organ extracts Including extracts from all body organs, such as, heart, kidney, liver, placenta, nerve, brain, lung, pancreas, intestine, stomach 1965	C04-B04N	. Eggs 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. 2014
C04-B04J	. Metabolic factors 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>	C04-B04N1	.. Avian eggs 2015 <i>Previous code(s): C04-B04N</i>
C04-B04K	. Milk Including derivatives. 1965	C04-B02N2	.. Fish eggs, fish roe 2015
C04-B04L	. Other mammalian extracts This code is used for mammalian extracts only (from 1994). For whole mammals see C04-P. 1965	C04-B04N3	.. Eggs from other sources Includes insect and reptile eggs 2015
		C04-C	POLYMERS 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.
		C04-C01	Polypeptides general 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.
		C04-C01A	. 3 to 5 alpha amino acid residues 1986

C04-C01B	. 6 to 10 alpha amino acid residues	1986	C04-C02D	. Polysaccharides from plant	1986
C04-C01C	. 11 to 15 alpha amino acid residues	1986		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.	
C04-C01D	. 16 to 20 alpha amino acid residues	1986	C04-C02E	. Polysaccharides from animal, bird, reptile or arthropod	1986
C04-C01E	. 21 to 25 alpha amino acid residues	1986			
C04-C01F	. 26 to 30 alpha amino acid residues	1986	C04-C02E1	.. Heparin (optionally modified)	1986
C04-C01G	. 31 or more alpha amino acid residues		C04-C02E2	.. Chondroitin (optionally modified)	1986
	This code also includes proteins of defined amino acid sequence.	1986	C04-C02E3	.. Chitin (optionally modified)	
C04-C01H	. Modified and/or cyclic peptides			C04-C02F may be also searched if chitin is obtained from fungal source.	1986
	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.	2005	C04-C02E4	.. Hyaluronic acid (optionally modified)	2012
C04-C02	Polysaccharides general		C04-C02F	. Polysaccharides from microbial sources	
	These must contain at least 7 sugar residues in sequence.			Polysaccharide which is modified microbiologically can be also searched under the code for the original polysaccharide.	1986
C04-C02A	. Cellulose and derivatives	1986	C04-C02V	. Lipopolysaccharide	1994
C04-C02A1	.. Unmodified cellulose	1986		<i>Previous code(s): C04-C02, C04-B01B</i>	
C04-C02A2	.. Cellulose ethers		C04-C02X	. Oligosaccharides	
	e.g. carboxymethylcellulose.	1986		This code is applied whenever the term oligosaccharide is used in a patent, or otherwise to chains of 3 to 6 sugar units.	
C04-C02A3	.. Cellulose esters			Tetrahydropyran(furan) are not coded unless they are ring modified.	1994
	e.g. cellulose acetate.	1986	C04-C03	Polymers general	
C04-C02B	. Starch, dextrin and derivatives	1986	C04-C03A	. Poly N-vinyl-lactams	1975
C04-C02B1	.. Cyclodextrin and derivatives	1986	C04-C03B	. Other addition	1975
C04-C02B2	.. Unmodified starch	1986	C04-C03C	. Polyethers	
C04-C02B3	.. Modified starch			Including thioethers and sulphides.	1975
	Includes derivatives of starch such as carboxymethylstarch.	2010	C04-C03D	. Natural, other condensation	1994
	<i>Previous code(s): C04-C02B</i>		C04-C03E #	. Dendrimers	2002
C04-C02B4	.. Dextrin	2012	C04-C03F	. Silicones	2005
C04-C02C	. Dextran	1986		<i>Previous code: C04-C03D</i>	

C04-D	OTHER NATURAL PRODUCTS	
C04-D01	Sugars (mono- or disaccharides) This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition. Includes molasses.	
C04-D01A	. Honey	2011
C04-D02	Others Includes any other natural product not covered by other codes e.g. clay, minerals, etc	
C04-D03	Biomass <i>Previous code(s): C04-A07D, C04-A07F, C04-B02B, C04-B04B, C04-B04L, C04-B04M</i>	1994
C04-E	NUCLEIC ACIDS E suffix is not appended to the codes in this section.	1994
C04-E01	Nucleic acid general and other 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>	
C04-E01A	. DNA Deoxyribonucleic acid.	2018
C04-E01B	. RNA Ribonucleic acid.	2018
C04-E02	Altered DNA coding sequences 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>	
C04-E02A	. Coding for antibodies <i>Previous code(s): C04-B04A1</i>	1994
C04-E02B	. Coding for modifiers of cell function and growth <i>Previous code(s): C04-B04A1</i>	1994
C04-E02C	. Coding for hormones <i>Previous code(s): C04-B04A1</i>	1994
C04-E02D	. Coding for receptors <i>Previous code(s): C04-B04A1</i>	1994
C04-E02E	. Coding for enzymes <i>Previous code(s): C04-B04A1</i>	1994
C04-E02F	. Coding for other protein/polypeptide <i>Previous code(s): C04-B04A1</i>	1994
C04-E02G	. Oncogene	2002
C04-E02H	. Encoding fusion protein	2002
C04-E02J	. Encoding antigens <i>Previous code(s): C04-E02F</i>	2007
C04-E02K	. Encoding nucleic acid	2009
C04-E03	Other DNA coding sequences These codes cover wild type genes and their fragments, and include their RNA transcripts. <i>Previous code(s): C04-B04A1</i>	1994
C04-E03A	. Coding for antibodies <i>Previous code(s): C04-B04A1</i>	1994
C04-E03B	. Coding for modifiers of cell function and growth <i>Previous code(s): C04-B04A1</i>	1994
C04-E03C	. Coding for hormones <i>Previous code(s): C04-B04A1</i>	1994
C04-E03D	. Coding for receptors <i>Previous code(s): C04-B04A1</i>	1994
C04-E03E	. Coding for enzymes <i>Previous code(s): C04-B04A1</i>	1994
C04-E03F	. Coding for other protein/polypeptide <i>Previous code(s): C04-B04A1</i>	1994
C04-E03G	. Oncogene	2002
C04-E03H	. Encoding fusion protein	2002-2008

C04-E03J	<ul style="list-style-type: none"> Encoding antigens Previous code(s): C04-E03F 	2007	C04-E10	Peptide nucleic acid	2002
C04-E03K	<ul style="list-style-type: none"> Encoding nucleic acid 	2009	C04-E11	Other analog nucleic acid	2002
C04-E04	Promoters, enhancers, regulatory sequences Previous code(s): C04-B04A1	1994	C04-E12	Reporter/marker nucleic acid	2002
C04-E05	Primers, probes Probes are coded in conjunction with C12-K04G codes, e.g. a probe for detecting cancer is coded C04-E05 and C12-K04G2A Previous code(s): C04-B04A1	1994	C04-E13	CRISPR 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
C04-E06	Antisense sequences Excluding antisense probes. Previous code(s): C04-B04A1	1994	C04-E14	Bacterial nucleic acid	2021
C04-E07	Other non-coding sequences This code includes ribozyme, ribosomal, transfer, mitochondrial. Previous code(s): C04-B04A1	1994	C04-E15	Viral nucleic acid	2021
C04-E07A	<ul style="list-style-type: none"> Ribozyme An RNA molecule that has catalytic activity. 	2005	C04-E16	Fungal nucleic acid	2022
C04-E07B	<ul style="list-style-type: none"> DNAzyme A DNA molecule that has catalytic activity. 	2005	C04-E99	Patent with Geneseq record	2008
C04-E07C	<ul style="list-style-type: none"> siRNA (short interfering RNA) Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction. 	2005	C04-F	CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS 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
C04-E07D	<ul style="list-style-type: none"> miRNA Micro RNA. 	2005	C04-F01 #	Cells, microorganisms, transformants, hosts, cell lines, tissue general Previous code(s): C04-B02B, C04-B04A, C04-B04D1	1994
C04-E07E	<ul style="list-style-type: none"> shRNA (small hairpin RNA) 	2006	C04-F02 #	Mammal (including human) Previous code(s): C04-B04A3	1994
C04-E07F	<ul style="list-style-type: none"> Aptamer 	2007	C04-F02A #	<ul style="list-style-type: none"> Cancer cells/Carcinoma 	2002
C04-E08	Vectors, plasmids, cosmids, transposons Viral vector is coded under virus. Previous code(s): C04-B04A1	1994	C04-F02B #	<ul style="list-style-type: none"> Stem cells Cell that can replicate indefinitely and differentiate into other cells. 	2005
C04-E09	Single Nucleotide Polymorphism (SNP)	2002	C04-F02C #	<ul style="list-style-type: none"> Progenitor cells Cell that is more advanced than a stem cell, giving rise to a distinct cell lineage. 	2017
			C04-F03 #	Sperm, ova (germ cells) Previous code(s): C04-B02D	1994

C04-F04 #	Blood cells (general) This code covers non-specific blood cells or when three or more specific types of blood cells are mentioned. 1994 <i>Previous code(s): C04-B04D1</i>	C04-F07B #	. Amphibian 2002
C04-F04A #	. Red blood cells 2006 <i>Previous code(s): C04-F04</i>	C04-F07C #	. Reptile 2002
C04-F04B #	. White blood cells (general) This code is used when non-specific white blood cells are mentioned or when three or more white blood cell types are mentioned. 2006 <i>Previous code(s): C04-F04</i>	C04-F07D #	. Fish 2002
C04-F04B1 #	.. Lymphocytes 2006 <i>Previous code(s): C04-F04</i>	C04-F07E #	. Avian 2006 <i>Previous code(s): C04-F07</i>
C04-F04B1A	... T-lymphocytes 2006 <i>Previous code(s): C04-F04</i>	C04-F08 #	Plant/algae 1994 <i>Previous code(s): C04-B04A2, C04-B02B3</i>
C04-F04B1B	... B-lymphocytes 2006 <i>Previous code(s): C04-F04</i>	C04-F08A #	. Algae Includes diatoms. 2008
C04-F04B2 #	.. Other white blood cells 2006 <i>Previous code(s): C04-F04</i>	C04-F09 #	Yeast/fungus general and other 1994 <i>Previous code(s): C04-B02B2</i>
C04-F04B2A	... Dendritic cells 2006 <i>Previous code(s): C04-F04</i>	C04-F09A #	. Aspergillus e.g. A. nidulans, A. fumigatus, A. flavus, A. niger, A. oryzae. 1994 <i>Previous code(s): C04-B02B2</i>
C04-F04B2B	... Macrophages 2006 <i>Previous code(s): C04-F04</i>	C04-F09B #	. Neurospora e.g. N. crassa. 1994 <i>Previous code(s): C04-B02B2</i>
C04-F04B2C	... Neutrophils 2006 <i>Previous code(s): C04-F04</i>	C04-F09C #	. Saccharomyces e.g. S. pombe, S. cerevisiae (brewer's yeast) 1994 <i>Previous code(s): C04-B02B2</i>
C04-F04B2D	... Others 2006 <i>Previous code(s): C04-F04</i>	C04-F09D #	. Pichia e.g. Pichia pastoris 2005
C04-F05 #	Hybridoma 1994 <i>Previous code(s): C04-B04A3</i>	C04-F09E #	. Multicellular fungi, non-higher 2012
C04-F05A #	. Chimeric & fused cells Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under C04-F05. 2005	C04-F10 #	Bacteria general 1994 <i>Previous code(s): C04-B02B1</i>
C04-F06 #	Protozoa 1994 <i>Previous code(s): C04-B02B5</i>	C04-F10A #	. Gram-negative genera, general and other 1994 <i>Previous code(s): C04-B02B1</i>
C04-F07 #	Other animal 1994 <i>Previous code(s): C04-B04A3</i>	C04-F10A1 #	.. Bordetella e.g. B. pertussis. 1994 <i>Previous code(s): C04-B02B1</i>
C04-F07A #	. Arthropod 2002	C04-F10A2 #	.. Borrelia 1994 <i>Previous code(s): C04-B02B1</i>
		C04-F10A3 #	.. Escherichia e.g. E. coli. 1994 <i>Previous code(s): C04-B02B1</i>

C04-F10A4 #	.. Mycoplasma e.g. M. pneumoniae, M. mycoides. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11A #	. DNA virus general Virus that infects foreign DNA into host cell, which then produces viral protein.	2005
C04-F10A5 #	.. Neisseria e.g. N. gonorrhoeae, N. meningitides. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11A1 #	.. Adenovirus Includes adeno-associated virus.	2007
C04-F10A6 #	.. Pseudomonas e.g. P. aeruginosa, P. mallei. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11B #	. RNA virus general Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced.	2005
C04-F10A7 #	.. Rickettsia e.g. R. prowazekii. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11B1 #	.. Retrovirus	2007
C04-F10A8 #	.. Salmonella e.g. S. typhi. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11B2 #	.. Coronavirus Coronavirus, including COVID-19.	2021
C04-F10A9 #	.. Vibrio e.g. V. cholerae, V. parahaemolyticus. <i>Previous code(s): C04-B02B1</i>	1994	C04-F12 #	Minicells & organelles E.g. mitochondria and any sub-cellular particle.	2005
C04-F10B #	. Gram-positive genera, general and other <i>Previous code(s): C04-B02B1</i>	1994	C04-F12A #	. Chloroplasts	2022
C04-F10B1 #	.. Bacillus e.g. B. subtilis. <i>Previous code(s): C04-B02B1</i>	1994	C04-F13 #	Platelets	2010
C04-F10B2 #	.. Mycobacteria e.g. M. tuberculosis, M. bovis, M. leprae, M. phlei. <i>Previous code(s): C04-B02B1</i>	1994	C04-G	ANTIBODY DEFINED IN TERMS OF ANTIGEN E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology.	1994
C04-F10B3 #	.. Staphylococcus e.g. S. aureus, S. epidermidis. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01 #	General and other Also includes general and unspecified immunoglobulins (specific immunoglobulins may be searched under the heading C04-G27:)	1994
C04-F10B4 #	.. Streptococcus e.g. S. pyogenes, S. faecalis. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01A	. Chimeric antibody An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.	2005
C04-F10B5 #	.. Streptomyces e.g. S. griseus, S. scabies. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01B #	. Human antibody An antibody produced from a single human cell line.	2005
C04-F11 #	Viruses Including bacteriophage lambda and viral vectors. <i>Previous code(s): C04-B02B4</i>	1994			

C04-G01C	<ul style="list-style-type: none"> Humanised antibody An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response. 	2005	C04-G20 #	Catalytic antibodies Including abzyme. This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code.	1994
C04-G01D #	<ul style="list-style-type: none"> Murine antibody An antibody produced from a single mouse cell line. 	2005	C04-G21 #	Monoclonal antibody This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code.	1994
C04-G02 #	Antimodifier of cell function and growth, antihormone antibody <i>Previous code(s): C04-B04C6</i>	1994	C04-G22 #	Polyclonal antibodies 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.	1994
C04-G03 #	Antienzyme antibody <i>Previous code(s): C04-B04C6</i>	1994	C04-G23 #	Antibody fragments	2006
C04-G04 #	Antireceptor antibody <i>Previous code(s): C04-B04C6</i>	1994	C04-G24 #	Bispecific antibodies	2006
C04-G05 #	Anticancer cell antibody <i>Previous code(s): C04-B04C4</i>	1994	C04-G25 #	Anti-prion protein antibodies	2008
C04-G06 #	Antiblood cells antibody e.g. antibody to T-cell, B-cell. <i>Previous code(s): C04-B04C6</i>	1994	C04-G26 #	Heterospecific antibody 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.	2016
C04-G07 #	Antibacteria antibody <i>Previous code(s): C04-B04C3</i>	1994	C04-G27	Immunoglobulins (specific) Only specific immunoglobulins are covered within this coding section. General and unspecified immunoglobulins should be searched using C04-G01.	2016
C04-G08 #	Antivirus antibody <i>Previous code(s): C04-B04C3</i>	1994	C04-G27A #	<ul style="list-style-type: none"> Immunoglobulin A May be searched in conjunction with additional codes from C04-G. 	2016
C04-G09 #	Antimicroorganisms (other) antibody <i>Previous code(s): C04-B04C3</i>	1994	C04-G27D #	<ul style="list-style-type: none"> Immunoglobulin D May be searched in conjunction with additional codes from C04-G. 	2016
C04-G09A #	<ul style="list-style-type: none"> Antifungus antibody 	2008	C04-G27E #	<ul style="list-style-type: none"> Immunoglobulin E May be searched in conjunction with additional codes from C04-G. 	2016
C04-G09B #	<ul style="list-style-type: none"> Antiprotozoal antibody 	2008	C04-G27G #	<ul style="list-style-type: none"> Immunoglobulin G May be searched in conjunction with additional codes from C04-G. 	2016
C04-G10 #	Antiplant antibody <i>Previous code(s): C04-B04C6</i>	1994			
C04-G11 #	Antibody binding to another antibody Also includes anti-idiotypic antibody.	2006			
C04-G12 #	Antiparasitic antibody Antibody acting against parasitic organisms/any kind of parasites other than bacteria, virus, fungi, protozoa.	2011			

C04-G27M #	. Immunoglobulin M May be searched in conjunction with additional codes from C04-G.	2016
C04-G27W #	. Immunoglobulin W Found in sharks and skates; related to mammalian IgD. May be searched in conjunction with additional codes from B04-G.	2021
C04-G27Y #	. Immunoglobulin Y May be searched in conjunction with additional codes from C04-G.	2020
C04-H	MODIFIERS OF CELL FUNCTION AND GROWTH 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.	1994
C04-H01 #	Modifier of cell function and growth general and other 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.	1994
C04-H02 #	Interleukins general and other <i>Previous code(s): C04-C01G</i>	1994
C04-H02A #	. Interleukin 1 <i>Previous code(s): C04-C01G</i>	1994
C04-H02B #	. Interleukin 2 <i>Previous code(s): C04-C01G</i>	1994
C04-H02C #	. Interleukin 3 (Multi-CSF) <i>Previous code(s): C04-C01G</i>	1994
C04-H02D #	. Interleukin 4 <i>Previous code(s): C04-C01G</i>	1994

C04-H02F #	. Interleukin 5 <i>Previous code(s): C04-C01G</i>	1994
C04-H02G #	. Interleukin 6 <i>Previous code(s): C04-C01G</i>	1994
C04-H02H #	. Interleukin 7 <i>Previous code(s): C04-C01G</i>	1994
C04-H02J #	. Interleukin 8 (NAP "Neutrophil Activating Protein") <i>Previous code(s): C04-C01G, C04-B04A</i>	1994
C04-H02K #	. Interleukin 9 <i>Previous code(s): C04-C01G</i>	1994
C04-H02L #	. Interleukin 10 <i>Previous code(s): C04-C01G</i>	1994
C04-H02M #	. Interleukin 11 <i>Previous code(s): C04-C01G</i>	1994
C04-H02N #	. Interleukin 12 <i>Previous code(s): C04-C01G</i>	1994
C04-H02P #	. Interleukin 13 <i>Previous code(s): C04-C01G</i>	1994
C04-H02Q #	. Interleukins 14-20 <i>Previous code(s): C04-H02</i>	2006
C04-H02R #	. Interleukins 21-25 <i>Previous code(s): C04-H02</i>	2006
C04-H02S #	. Interleukins 26-30 <i>Previous code(s): C04-H02</i>	2006
C04-H02T #	. Interleukins 31-35 <i>Previous code(s): C04-H02</i>	2006
C04-H03	Prostaglandins general and other <i>Previous code(s): C04-B02E</i>	1994
C04-H03A	. Prostaglandin E1 <i>Previous code(s): C04-B02E</i>	1994
C04-H03B	. Prostaglandin E2 <i>Previous code(s): C04-B02E</i>	1994
C04-H03C	. Prostaglandin F2 alpha <i>Previous code(s): C04-B02E</i>	1994
C04-H03D	. Prostacyclin (Prostaglandin I2) <i>Previous code(s): C04-B02E, C06-A02</i>	1994

C04-H03F	. Leukotrienes	1994
	<i>Previous code(s): C04-B02E, C07-A03, C10-B02D, C10-C04D</i>	
C04-H03G	. Thromboxanes	1994
	<i>Previous code(s): C04-B02E, C06-A02, C07-A02</i>	
C04-H04 #	CSFs (Colony Stimulating Factors) General and other	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H04A #	. G-CSF (Granulocyte Colony Stimulating Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H04B #	. M-CSF (Macrophage Colony Stimulating Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H04C #	. GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H04D #	. MEG-CSF (Megakaryocyte Colony Stimulating Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H05 #	Interferons General and other	1994
	<i>Previous code(s): C02-V03</i>	
C04-H05A #	. Interferon alpha	1994
	<i>Previous code(s): C02-V03</i>	
C04-H05B #	. Interferon beta	1994
	<i>Previous code(s): C02-V03</i>	
C04-H05C #	. Interferon gamma	1994
	<i>Previous code(s): C02-V03</i>	
C04-H06 #	Growth factors general and other	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06A #	. EGF (Epidermal Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06B #	. PDGF (Platelet Derived Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06C #	. MDGF (Macrophage Derived Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06D #	. NGF (Nerve Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	

C04-H06F #	. TGF (Transforming Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06G #	. FGF (Fibroblast Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06H #	. Somatomedins, sulphation factors This code includes IGF's (Insulin-like growth factors).	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06J #	. PGF (Prostatic Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06K #	. HGF (Hepatocyte Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H06L #	. Bone morphogenetic protein	2002
C04-H06M #	. Vascular endothelial growth factor Also known as VEGF.	2006
	<i>Previous code(s): C04-H06</i>	
C04-H07 #	Erythropoietin (Epo), thrombopoietin	1994
	<i>Previous code(s): C04-B04A6, C04-B02D, thrombopoietin C04-H06 (pre-2010)</i>	
C04-H08 #	TNF (Tumor Necrosis Factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H09 #	LIF (Leukemia inhibitory factor)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H10 #	Mullerian inhibitory substance (MIS)	1994
	<i>Previous code(s): C04-B04J</i>	
C04-H11 #	MIP (Macrophage inflammatory protein)	1994
	<i>Previous code(s): C04-B04A6</i>	
C04-H12 #	Megakaryocyte potentiator	1994
	<i>Previous code(s): C04-B04A6, C04-B04J</i>	
C04-H13 #	Lymphotoxin (LT)	1994
	<i>Previous code(s): C04-B04A6, C04-B04D3, C04-B04J</i>	
C04-H14 #	PAF (Platelet activating factor)	1994
	<i>Previous code(s): C04-B04D3, C04-B04J</i>	
C04-H15 #	PA (Plasminogen Activator)	1994
	<i>Previous code(s): C04-B02C3, C04-B04D3</i>	

C04-H16 #	SCF (Stem Cell Factor) <i>Previous code(s): C04-B04J</i>	1994	C04-H20C #	. Muscle proteins general	2002
C04-H17 #	T-Activin (TA, Thymic factor) <i>Previous code(s): C04-B04A6, C04-B04J</i>	1994	C04-H20C1 #	.. Actin	2002
C04-H18 #	Activin A (EDF "Erythroid differentiation factor") <i>Previous code(s): C04-B04A6, C04-B04J</i>	1994	C04-H20C2 #	.. Myosin	2002
C04-H19 #	Clotting factors 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 (antihaemophilic globulin (AHG), antihaemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihaemophilic factor B), Factor X (stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinase), Factor XI (plasma thromboplastin antecedent (PTA), antihaemophilic 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. <i>Previous code(s): C04-B02C3, C04-B02D2, C04-B04D3, C04-C02B3</i>	1994	C04-H20C3 #	.. Tropomyosin	2002
			C04-H21 #	Integrins	2002
			C04-J	HORMONES	1994
			C04-J01 #	Hormones general and other 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. <i>Previous code(s): C04-B02D</i>	1994
			C04-J02	Steroidal Hormones (No Structure) Includes all steroids where no structure is given. <i>Previous code(s): C04-B02D1</i>	1994
			C04-J03 #	Pancreatic hormone general and other Including pancreatic polypeptide. <i>Previous code(s): C04-B02D2</i>	1994
			C04-J03A #	. Insulin <i>Previous code(s): C04-B02D2</i>	1994
			C04-J03B #	. Glucagon <i>Previous code(s): C04-B02D2</i>	1994
			C04-J04 #	Thyroid and parathyroid general and other N.B. thyroxine is coded C10-B2E. <i>Previous code(s): C04-B02D3</i>	1994
			C04-J04A #	. Calcitonin <i>Previous code(s): C04-B02D3</i>	1994
			C04-J04B #	. Parathyroid hormone <i>Previous code(s): C04-B02D3</i>	1994
			C04-J05 #	Pituitary gland hormones general and other Including prolactin and human growth hormone. <i>Previous code(s): C04-B02D4</i>	1994
C04-H20 #	Adhesion and Motor molecules general and other e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular cell adhesion molecule). <i>Previous code(s): C04-B04A6, C04-B04C2</i>	1994			
C04-H20A #	. Fibronectin <i>Previous code(s): C04-B04A6</i>	1994			
C04-H20B #	. Vitronectin <i>Previous code(s): C04-B04A6</i>	1994			

C04-J05A #	. Oxytocin <i>Previous code(s): C04-B02D4</i>	1994	C04-J12 #	Gastrin/Secretin/Motilin <i>Previous code(s): C04-B02D</i>	1994
C04-J05B #	. ADH (Antidiuretic hormone) Also known as vasopressin. <i>Previous code(s): C04-B02D4</i>	1994	C04-J13 #	Cholecystokinin (CCK-PZ, Pancreozymin) <i>Previous code(s): C04-B02D</i>	1994
C04-J05D #	. ACTH (Adrenocorticotrophic hormone "adrenocorticotropin") <i>Previous code(s): C04-B02D4</i>	1994	C04-J14 #	Tachykinins (Substance p = SP) <i>Previous code(s): C04-B02D</i>	1994
C04-J05F #	. TSH (Thyroid Stimulating Hormone) <i>Previous code(s): C04-B02D4</i>	1994	C04-J15 #	Neurotensin <i>Previous code(s): C04-B02D</i>	1994
C04-J05G #	. MSH (Melanocyte stimulating hormone) <i>Previous code(s): C04-B02D4</i>	1994	C04-J16 #	Ecdysone <i>Previous code(s): C04-B02D</i>	1994
C04-J05H #	. Gonadotropins Including FSH (=follicle stimulating hormone), LH (=luteinising hormone), HMG (=human menopausal gonadotropin). <i>Previous code(s): C04-B02D4</i>	1994	C04-J17 #	Juvenile hormone <i>Previous code(s): C04-B02D</i>	1994
C04-J05J #	. STH (Somatotrophic growth hormone) <i>Previous code(s): C04-B02D4</i>	1994	C04-J18 #	Angiotensin <i>Previous code(s): C04-B02D</i>	1994
C04-J06 #	CRH (Corticotropin-releasing hormone) Hormones covered by C04-J06 to C04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones. <i>Previous code(s): C04-B02D</i>	1994	C04-J19 #	Melanin concentrating hormone Also known as MCH, a 19 amino acid cyclic neuropeptide that is expressed mainly in the hypothalamus. <i>Previous code(s): C04-B02D, C04-J01</i>	2005
C04-J07 #	GN-RH (Gonadotropin-releasing hormone) LH-RH (Luteinising hormone-releasing hormone) <i>Previous code(s): C04-B02D</i>	1994	C04-J20 #	Phytohormones (no structure) Includes cytokinins, auxins and other plant hormones where no structure is specified.	2014
C04-J08 #	TRH (Thyrotropin-releasing hormone) <i>Previous code(s): C04-B02D</i>	1994	C04-J99 #	Prohormone e.g. progastrin, procalcitonin. To be coded in conjunction with the active form of the appropriate hormone.	2018
C04-J09 #	GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor) <i>Previous code(s): C04-B02D</i>	1994	C04-K	RECEPTORS	1994
C04-J10 #	Somatostatin <i>Previous code(s): C04-B02D</i>	1994	C04-K01 #	Receptor general and other 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. <i>Previous code(s): C04-B04A6</i>	1994
C04-J11 #	Endorphins/enkephalins <i>Previous code(s): C04-B02D</i>	1994	C04-K01A #	. Parasympathetic receptor (Cholinergic receptor) <i>Previous code(s): C04-B04A6</i>	1994
			C04-K01B #	. Sympathetic receptor (Adrenergic receptor, alpha and beta) <i>Previous code(s): C04-B04A6</i>	1994

C04-K01C #	. Dopamine receptor	1994	C04-K01T #	. Bacterial or bacterial antigen receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01D #	. Serotonin (5HT) receptor	1994	C04-K01U #	. Viral or viral antigen receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01F #	. Histamine receptor	1994	C04-K01V #	. Other cell, microbe or antigen receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01G #	. Interleukin receptor	1994	C04-K01W #	. Antibody receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01H #	. Prostaglandin/leukotriene/ thromboxane receptor	1994	C04-K01X #	. Non-steroidal nuclear (hormone) receptor	2002
	<i>Previous code(s): C04-B04A6</i>				
C04-K01J #	. Growth factor receptor	1994	C04-K01X1 #	.. Peroxisome proliferator activated receptor (Orphan receptor) Also known as PPAR.	2005
	<i>Previous code(s): C04-B04A6</i>				
C04-K01K #	. Other modifier of cell function and growth receptor	1994	C04-K01X2 #	.. Thyroid receptor	2005
	<i>Previous code(s): C04-B04A6</i>				
C04-K01L #	. Steroid receptor e.g. mineralocorticoid, corticosteroid, oestrogen receptor.	1994	C04-K01Y #	. G-protein coupled receptor	2002
	<i>Previous code(s): C04-B04A6</i>		C04-K01Y1 #	.. Melanin concentrating hormone receptor	2005
C04-K01L1 #	.. Androgen receptors	2005	C04-K01Z #	. Enzyme receptor	2014
C04-K01L2 #	.. Oestrogen receptors	2005	<hr/>		
C04-K01L3 #	.. Corticosteroid receptors	2005	C04-L	ENZYMES Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature.	1994
C04-K01L4 #	.. Other steroid receptors	2005	C04-L01 #	Enzymes, catalytic proteins general and other	1994
C04-K01M #	. Insulin receptor	1994		<i>Previous code(s): C04-B02C</i>	
	<i>Previous code(s): C04-B04A6</i>		C04-L02 #	Coenzymes	1994
C04-K01N #	. Angiotensin receptor	1994		<i>Previous code(s): C04-B02C1</i>	
	<i>Previous code(s): C04-B04A6</i>		C04-L03 #	Oxidoreductases general and other	1994
C04-K01P #	. Other hormone receptor	1994		<i>Previous code(s): C04-B02C2</i>	
	<i>Previous code(s): C04-B04A6</i>		C04-L03A #	. Oxidases	1994
C04-K01Q #	. Lipoprotein (LDL, HDL) receptor	1994		<i>Previous code(s): C04-B02C2</i>	
	<i>Previous code(s): C04-B04A6</i>		C04-L03B #	. Peroxidases	1994
C04-K01R #	. Blood cell or blood cell antigen receptor	1994		<i>Previous code(s): C04-B02C2</i>	
	<i>Previous code(s): C04-B04A6</i>		C04-L03C #	. Oxygenases Including cytochrome P450	1994
C04-K01S #	. Cancer cell or cancer cell antigen receptor	1994		<i>Previous code(s): C04-B02C2</i>	
	<i>Previous code(s): C04-B04A6</i>				

C04-L03D #	. Dehydrogenases, reductases <i>Previous code(s): C04-B02C2</i>	1994
C04-L03E #	. Lipoxygenases	2002
C04-L04 #	Transferases general and other <i>Previous code(s): C04-B02C4</i>	1994
C04-L04A #	. DNA/RNA polymerases <i>Previous code(s): C04-B02C4</i>	1994
C04-L04B #	. Reverse transcriptase <i>Previous code(s): C04-B02C4</i>	1994
C04-L04C #	. Kinases 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
C04-L05 #	Hydrolases general and other <i>Previous code(s): C04-B02C3</i>	1994
C04-L05A #	. Esterases Including lipases, nucleases, restriction enzymes, sulphatases, phosphatases. <i>Previous code(s): C04-B02C3</i>	1994
C04-L05A1 #	.. Phosphodiesterases	2005
C04-L05A2 #	.. CRISPR system nucleases Nucleases specifically for application in CRISPR systems e.g. Cas9 and Cpf1.	2017
C04-L05B #	. Glycosidases Including amylases, cellulases, lactases. <i>Previous code(s): C04-B02C3</i>	1994
C04-L05C #	. Proteases, peptide hydrolases Including chymotrypsin, trypsin, papain, fibrinolysin, collagenases, elastases. <i>Previous code(s): C04-B02C3</i>	1994
C04-L05C1 #	.. Metalloproteases	2005
C04-L06 #	Lyases Including adenyl cyclases, (de)carboxylases, aldolases, dehydratases. <i>Previous code(s): C04-B02C5</i>	1994

C04-L07 #	Isomerases Including racemases, tautomerase, epimerases, mutases. <i>Previous code(s): C04-B02C6</i>	1994
C04-L08 #	Ligases Including synthetases, some carboxylases, aromatase. Excludes synthase. <i>Previous code(s): C04-B02C7</i>	1994
C04-L09 #	Zymogen and other enzyme precursors	2002
C04-L10 #	Translocase Enzymes in class EC7.	2020
C04-M	ENZYME INHIBITORS	1994
C04-M01 #	Enzyme inhibitors general and other This code is used for enzyme inhibitors with no structure only. <i>Previous code(s): C04-B04F</i>	1994
C04-N	OTHER PROTEIN/POLYPEPTIDE 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
C04-N01 #	Plant protein/polypeptide (No sequence) <i>Previous code(s): C04-B04A4, C04-C01</i>	1994
C04-N01A #	. Complete amino acid sequence given Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A4</i>	1994
C04-N01B #	. Fragments of amino acid sequence given <i>Previous code(s): C04-B04A4</i>	1994
C04-N02 #	Animal protein/polypeptide (No sequence) <i>Previous code(s): C04-B04A6, C04-C01</i>	1994
C04-N02A #	. Complete amino acid sequence given Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A6</i>	1994

C04-N02B #	. Fragments of amino acid sequence given 1994 <i>Previous code(s): C04-B04A6</i>	C04-N03J2 #	.. Bacterial protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): C04-N03D</i>
C04-N03 #	Microorganism protein/polypeptide (No sequence) 1994 <i>Previous code(s): C04-B04A5, C04-C01</i>	C04-N03K #	. Viral protein/polypeptide (No sequence) 2011
C04-N03A #	. Complete amino acid sequence given Codes C04-C01 to C04-C01G are also applied. 1994 <i>Previous code(s): C04-B04A5</i>	C04-N03K1 #	.. Viral protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): C04-N03E</i>
C04-N03B #	. Fragments of amino acid sequence given 1994 <i>Previous code(s): C04-B04A5</i>	C04-N03K2 #	.. Viral protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): C04-N03F</i>
C04-N03C #	. Bacterial protein/polypeptide with complete amino acid sequence Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03J1</i>	C04-N03L #	. Fungal protein/polypeptide (No sequence) 2011
C04-N03D #	. Bacterial protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>now coded C04-N03J2</i>	C04-N03L1 #	.. Fungal protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): C04-N03G</i>
C04-N03E #	. Viral protein/polypeptide with complete amino acid sequence Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03K1</i>	C04-N03L2 #	.. Fungal protein/polypeptide with fragments of aminoacid sequence 2011 <i>Previous code(s): C04-N03H</i>
C04-N03F #	. Viral protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>now coded C04-N03K2</i>	C04-N04 #	Protein/polypeptide of undefined origin (No sequence) 1994 <i>Previous code(s): C04-B04A, C04-C01</i>
C04-N03G #	. Fungal protein/polypeptide with complete amino acid sequence Codes C04-C01 to C04-C01G are also applied. 2006-2010 <i>now coded C04-N03L1</i>	C04-N04A #	. Complete amino acid sequence given Codes C04-C01 to C04-C01G are also applied. 1994 <i>Previous code(s): C04-B04A</i>
C04-N03H #	. Fungal protein/polypeptide with fragments of amino acid sequence 2006-2010 <i>now coded C04-N03L2</i>	C04-N04B #	. Fragments of amino acid sequence given 1994 <i>Previous code(s): C04-B04A</i>
C04-N03J #	. Bacterial protein/polypeptide (No sequence) 2011	C04-N05 #	Lipoprotein Also includes Lipopeptides. 1994 <i>Previous code(s): C04-B04A, C04-B01B</i>
C04-N03J1 #	.. Bacterial protein/polypeptide with complete aminoacid sequence 2011 <i>Previous code(s): C04-N03C</i>	C04-N06 #	Glycoprotein, peptidoglycan and cytoskeletal proteins 1994 <i>Previous code(s): C04-B04A</i>
		C04-N07 #	Ion channel protein 2002
		C04-N08	Fusion protein 2002
		C04-N09 #	Molecular chaperones and chaperonins E.g. Heat shock proteins (HSP). 2005 <i>Previous code(s): C04-N01, C04-N02, C04-N04</i>

C04-N10	Prions Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep. 2005 <i>Previous code: C04-N02</i>	
C04-N11 #	Zinc finger proteins Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins. 2005 <i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i>	
C04-N12 #	Transcription factors general A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription. 2005 <i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i>	
C04-N13 #	Signalling pathway proteins 2006	
C04-N14	Peptidomimetics 2008	
C04-N15	Crystalline form Used in conjunction with other specific protein codes for protein crystals. 2010	
C04-N16	Biomarker protein 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. 2017	
C04-P	WHOLE ANIMALS E suffix is appended to respective whole animal codes for transgenic animals. 1994	
C04-P01 #	Whole animals general and other 1994 <i>Previous code(s): C04-B04L, C04-B04M</i>	
C04-P01A #	Laboratory experimental animals e.g. mice, rats. 1994 <i>Previous code(s): C04-B04L, C04-B04M</i>	
C04-P01B #	Farm animals e.g. cows, sheep. 1994 <i>Previous code(s): C04-B04L, C04-B04M</i>	
C04-P01C #	Arthropods 1994 <i>Previous code(s): C04-B04M</i>	
C04-Q	DRUG CONJUGATES GENERAL All portions of the conjugate are additionally coded in the relevant sections. 2013	
C04-Q01	Antibody-drug conjugates The antibody is additionally coded in section C04-G. 2013	
C04-Q02	Other protein/peptide drug conjugates The protein / peptide is also coded in the appropriate section(s) of C04. 2013	
C04-Q03	Synthetic polymer-drug conjugates Also includes drug conjugates with polysaccharides. The polymer/polysaccharide is additionally coded in C04. 2013	
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 hypokalaemia). 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.
C05-A03A	. Manganese (Mn), iron (Fe), copper (Cu), zinc (Zn), mercury (Hg) 1975

C05-A03A1	.. Manganese (Mn) compounds 2005
C05-A03A2	.. Iron (Fe) compounds 2005
C05-A03A3	.. Copper (Cu) compounds 2005
C05-A03A4	.. Zinc (Zn) compounds 2005
C05-A03A5	.. Mercury (Hg) compounds 2005
C05-A03B	. Others 1975
C05-A03B1	.. Titanium 2008
C05-A03B2	.. Silver 2008
C05-A03B3	.. Platinum 2008 <i>Previous code(s): C05-A03B</i>
C05-A04	Radioactive elements and specific isotopes
C05-A04A	. Deuterium 2007
C05-A04B	. Tritium 2007
C05-A04C	. Carbon isotopes Excludes Carbon-12 2007
C05-A04D	. Iodine isotopes Excludes Iodine-127 2007
C05-A04E	. Other radioactive isotope 2007
C05-A04F	. Other non-radioactive isotope 2007
C05-A05	Alloys May be coded in conjunction with additional codes from C05-A when the constituent metals are known. 2018
C05-A06	Metal chelates Both the metal and the chelating agent(s) are also coded. 2019
C05-B	LESS COMMON NON-METALS AND COMPOUNDS
C05-B01A	. Boron (B) organic 1965
C05-B01B	. Silicon (Si) organic 1965
C05-B01C	. Arsenic (As) organic 1965

C05-B01D	. Selenium (Se), Tellurium (Te), organic	1965
C05-B01E	. P-C bond heterocyclic	1965
C05-B01F	. P-C bond aromatic	1965
C05-B01G	. P-C bond (cyclo)aliphatic	1965
C05-B01H	. P-Hal bond organic	1965
C05-B01J	. P-N bond heterocyclic	1965
C05-B01K	. P-N bond aromatic	1965
C05-B01L	. P-N bond (cyclo)aliphatic	1965
C05-B01M	. P-O(S) bond heterocyclic	1965
C05-B01N	. P-O(S) bond aromatic	1965
C05-B01P	. P-O(S) bond (cyclo)aliphatic	1965
C05-B02A	. P and inorganic P compounds general 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
C05-B02A1	.. P acids production	1975
C05-B02A2	.. Ammonium salts of P acids This code is used also for mixtures containing only ammonium salts of P acids.	1975
C05-B02A3	.. P and inorganic P compounds	1975
C05-B02A4	.. Fertiliser mixt. contg. P acid (or salt) and N-source For mixtures of ammonium salts of phosphoric acid only see C05-B02A2.	1975
C05-B02A5	.. Fertiliser mixt. contg. P acid (or salt) and non-N-source	1975
C05-B02B	. Arsenic (As) inorganic	1965
C05-B02C	. Silicon (Si), selenium (Se), tellurium (Te), boron (B) inorganic, inert gases	1965

C05-C	MORE COMMON NON-METALS, COMPOUNDS	
C05-C01	N (ammonia) inorganic 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.	1965
C05-C02	N (nitrate) inorganic	1965
C05-C03	N (others) inorganic	1965
C05-C04	CO₂, inorganic (bi)(thio)carbonates	1965
C05-C05	Inorganic S acids, S oxides	1965
C05-C06	Elemental C or S	1965
C05-C07	Inorganic compounds containing halogen 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.	1965
C05-C08	Others	1965
C05-U	FULLERENE TYPE CAGE STRUCTURES	1994
C05-U	General	1994
C05-U01	. Other than carbon only	1994
C05-U02	. Carbon only	1994
C05-U03	. Carbon only nanotubes	2005
C05-U04	. Carbon plus heteroatom nanotubes	2005
C05-U05	. Other carbon containing 3-D structures	2005
C05-U05A	.. Nanotubes, nanorods, nanohorns	2010
C05-U05B	.. Nanofilms	2010
C05-U05C	.. Nanostructures other than those covered by C05-U05A and C05-U05B	2010
C05-U06	. Inorganic nanostructures	2005

C05-V	METALLOCENES	2008
C05-V	Metalloenes e.g. ferrocenes, titanocenes, zirconocenes <i>Previous code(s): C05+</i>	2008
C05-Z	ORGANOMETALS	2015
C05-Z	Organometal compounds Metals/metalloids present in organic compound, excludes B, Si, As, Se, Te and P. To be searched alongside specific codes for relevant metal(s).	2015

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.

C06-A	SOLE HETERO(S) OXYGEN
C06-A01	1-Benzo-(furan or pyran)
C06-A02	Others with 2 rings (e.g. phenolphthalein)
C06-A03	With more than 2 rings
C06-A03A	. Taxols, taxels e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton
2006, 2010	
C06-B	SOLE HETERO(S) SULPHUR
C06-B01	With 2 rings
C06-B02	With more than 2 rings
C06-C	SOLE HETEROS O AND S
C06-C	General
C06-D	SOLE HETERO(S) NITROGEN
C06-D01	Indole
C06-D02	Quinoline
C06-D03	Isoindole, isoquinoline
C06-D04	Others with 2 rings and one N
C06-D05	With 2 rings (5+6 membered) and two N
C06-D06	With 2 rings (both 6 membered) and two N
C06-D07	Others with 2 rings and two N
C06-D08	With 2 rings and 3 N
C06-D09	With 2 rings and 4 N

C06-D10	With 2 rings and >4 N
C06-D11	Acridine
C06-D12	Dibenzo [b,f] azepine
C06-D13	Others with 3 rings and one N
C06-D14	Phenazine
C06-D15	Carbolines, phenanthrolines
C06-D16	Others with 3 rings and two N
C06-D17	With 3 rings and >2N
C06-D18	With more than 3 rings
C06-E	SOLE HETEROS O AND N
C06-E01	Benzoxazole, benzisoxazoles
C06-E02	Benzoxazines
C06-E03	Others with 2 rings
C06-E04	Phenoxazine
C06-E05	Others with more than 2 rings
C06-F	SOLE HETEROS S AND N
C06-F01	Benzothiazole, benzisothiazoles
C06-F02	Benzothiazines
C06-F03	Others with 2 rings
C06-F04	Phenothiazine
C06-F05	Others with more than 2 rings
C06-G	SOLE HETEROS O AND S AND N
C06-G	General
C06-H	FUSED RING, GENERAL 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.
C06-H	General
C06-S	SPIROFUSED FUSED HETEROCYCLES to be applied in conjunction with specific ring code(s) from C06.
C06-S	Spirofused fused heterocycles

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.

C07-A	SOLE HETERO(S) OXYGEN
C07-A01	Furan excluding tetrahydrofuran
C07-A02	Tetrahydro-(furan or pyran) general
C07-A02A	. Tetrahydrofuran <i>Previous code(s): C07-A02</i>
	1994
C07-A02B	. Tetrahydropyran <i>Previous code(s): C07-A02</i>
	1994
C07-A03	Others with one O Including pyran.
C07-A04	With more than one O
C07-B	SOLE HETERO(S) SULPHUR
C07-B01	Thiophene
C07-B02	Others with one S
C07-B03	Others with more than one S
C07-C	SOLE HETEROS O AND S
C07-C	General
C07-D	SOLE HETERO(S) NITROGEN
C07-D01	With one N, 3 or 4 membered
C07-D02	Pyrrole Excluding pyrrolidine.
C07-D03	Pyrrolidine
C07-D04	Pyridine general Excluding piperidine.
C07-D04A	. (Hydro)pyridinium N(V)
	1986

C07-D04B	. Pyridine (optionally substituted) production	1986
C07-D04C	. Pyridine (optionally substituted) use	1986
C07-D04D	. Di- and tetrahydropyridine (optionally substituted)	1986
C07-D05	Piperidine	
C07-D06	With one N, > 6-membered	
C07-D07	With > one N, less than 5-membered	
C07-D08	Pyrazole	
C07-D09	Imidazole	
C07-D10	Pyr(id)azine Excluding piperazine.	
C07-D11	Piperazine	
C07-D12	Pyrimidine	
C07-D13	Others with more than one N	
C07-E	SOLE HETEROS O AND N	
C07-E01	With one O and one N < 6-membered	
C07-E02	Oxazines Excluding morpholine.	
C07-E03	Morpholine	
C07-E04	Others	
C07-F	SOLE HETEROS S AND N	
C07-F01	With one S and one N < 6-membered	
C07-F02	Thiazines	
C07-F03	Others	
C07-G	SOLE HETEROS O AND S AND N	
C07-G	General	
C07-H	MONONUCLEAR HETEROCYCLICS GENERAL 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.	
C07-H	Heterocyclic ring general	
C07-H01	Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN	1975

C07-H02	Ring linked directly to heteroatom	1975
C07-H03	Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN	1975
C07-H04	Other rings	1975
C07-S	SPIROFUSED MONOCYCLIC HETEROCYCLES To be applied in conjunction with specific ring code(s) from C07.	
C07-S	Spirofused monocyclic heterocycles	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 derivs. thereof). Mono- and bicyclo- aromatics are coded in C10.

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

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

C10-A	RARER CHEMICAL GROUPS GENERAL Oxygen atoms may be replaced by S, where applicable.
C10-A01	Sulphonium, iodonium, free radicals, carbonium, oxonium, etc.
C10-A02	Halogen bonded to Hal, N or O 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 sulphenyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.
C10-A03	Nitrogen oxide, nitroso Includes nitramines
C10-A04	Peroxide, polysulphide Also includes hydroperoxides.
C10-A05	Nitrate, nitrite
C10-A06	Quinone Including all derivatives except those with higher priority.
C10-A07	Sugars (general) 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.
C10-A07A	<ul style="list-style-type: none"> Unmodified sugars Includes ethers and esters thereof. 7 or more carbon sugars are coded C10-A07E.

2005

C10-A07B

- Sugar alcohols**
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.

2005

C10-A07C

- Sugar acids**
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 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 C07-A02. Lactones of sugar alcohols code in the C07-A section.

2005

C10-A07D

- Sugar amines**
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 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.

2005

C10-A07E	<ul style="list-style-type: none"> Other sugar derivatives 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 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. 	2005	C10-A13B	<ul style="list-style-type: none"> (Iso)urea general 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
C10-A08	Amide of sulphur acid		C10-A13C	<ul style="list-style-type: none"> Unsubstituted urea 	1975
C10-A09A	<ul style="list-style-type: none"> (Thio)Sulphuric(ous) acid Including all derivatives except those with higher priority. 	1965	C10-A13D	<ul style="list-style-type: none"> Other (iso)urea compounds 	1975
C10-A09B	<ul style="list-style-type: none"> (Thio)Sulphonic acid general Including all derivatives except for those with higher priority. 	1965	C10-A14	(Iso)cyanate, thiocyanide	
C10-A09C	<ul style="list-style-type: none"> Other S acids Including all derivatives except those with higher priority. 	1965	C10-A15	(Iso)cyanide	
C10-A10	Sulphone, sulfoxide		C10-A16	Azide, azo diazo(nium)	
C10-A11A	<ul style="list-style-type: none"> Thiocarbonic acid Including all derivatives except those with higher priority. 	1965	C10-A17	Biguanide, guanidine, amidine	
C10-A11B	<ul style="list-style-type: none"> Carbonic acid Includes haloformates. 	1965	C10-A18	Hydroxylamine Hydroxylamine itself is coded C05-C03.	
C10-A12A	<ul style="list-style-type: none"> Dithiocarbamic acid Including all derivatives except those with higher priority. 	1965	C10-A19	Hydrazine Hydrazine itself is coded C05-C03.	
C10-A12B	<ul style="list-style-type: none"> Monothiocarbamic acid Including all derivatives except those with higher priority. 	1965	C10-A20	Imine	
C10-A12C	<ul style="list-style-type: none"> Carbamic acid Including all derivatives except those with higher priorities. 	1965	C10-A21	Quaternary ammonium (bis or poly) 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.	
C10-A13A	<ul style="list-style-type: none"> (Iso)thiourea 	1965	C10-A22	Quaternary ammonium (mono)	
			C10-A23	Acetal, ketal	
			C10-A24	Imide	
			C10-A25	Acid anhydride, halide (carboxylic only) 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 sulphenyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.	
			C10-B	AMINES	
			C10-B01	Polyamine general	1986
			C10-B01A	<ul style="list-style-type: none"> Polyamines, at least 1 amine aromatic 	1965
			C10-B01B	<ul style="list-style-type: none"> Polyamines with no amine aromatic 	1965

C10-B02	Amino-acid, -ester or -amide general Oxygen atoms in the acid/ester/amide portion may be replaced by S where applicable. 1986	C10-C03	Carboxylic acid and phenol present Or phenolic ester or ether. Oxygen atoms may be replaced by S.
C10-B02A	. Amino-acid, -ester or -amide (amine aromatic) 1965	C10-C04	Other carboxylic acids general
C10-B02B	. Amino-acid, -ester or amide (amine not aromatic) general 1965	C10-C04A	. Carboxylic acid and cycloaliphatic system present 1975
C10-B02C	. Mixtures containing at least 3 naturally occurring amino acids 1975	C10-C04B	. Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present Including esters and ethers (of hydroxy) and thio derivatives. 1975
C10-B02D	. Sulphur-containing amino acids Including amides and esters of the acid group(s). 1975	C10-C04C	. Other carboxylic acid and carbocyclic aromatic ring system present 1975
C10-B02E	. Ring-containing amino acid with free acid group or salt 1975	C10-C04D	. Acyclic hydroxy Including acyclic ether (of hydroxy) and thio derivatives. 1975
C10-B02F	. Ring-containing amino amide 1975	C10-C04E	. General acyclic monocarboxylic acid General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives) 1975
C10-B02G	. Ring-containing amino ester 1975	C10-C04E1	.. Substituted acyclic monocarboxylic acid 2006
C10-B02H	. Optionally esterified or etherified hydroxy amino acids Including amides and esters of the acid group(s). 1975	C10-C04E2	.. Polyunsaturated fatty acid 2006
C10-B02J	. Other amino acids Including amides and esters of the acid group(s). 1975	C10-C04E3	.. Monounsaturated fatty acid 2006
C10-B03	Amino-phenol, -alcohol or -ether general Oxygen atoms may be replaced by S, where applicable. 1986	C10-C04E4	.. Other unsaturated monocarboxylic acid 2006
C10-B03A	. Amino-phenol, -alcohol or -ether (amine aromatic) 1971	C10-C04E5	.. Saturated fatty acid 2006
C10-B03B	. Amino-phenol, -alcohol or -ether (amine not aromatic) 1971	C10-C04E6	.. Other saturated monocarboxylic acid 2006
C10-B04	Amine mono, general 1986	C10-D	ALDEHYDES AND CARBOXYLIC AMIDES 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.
C10-B04A	. Other aromatic amines 1971	C10-D01	Aldehydes
C10-B04B	. Other non-aromatic amines 1971	C10-D02	Carboxylic amide, thio
C10-C	CARBOXYLIC ACIDS	C10-D03	Carboxylic amides
C10-C01	Thiocarboxylic acid		
C10-C02	Polycarboxylic acid		

C10-E	HYDROXY COMPOUNDS Oxygen atoms may be replaced by S, where applicable
C10-E01	Thiophenols
C10-E02	Phenols
C10-E03	Thioalcohols
C10-E04	Alcohols general 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.
C10-E04A	. Alcohols containing hydroxy attached directly to alicyclic ring Including inositol. 1975
C10-E04B	. Alcohols containing carbocyclic ring(s) 1975
C10-E04C	. Polyalcohols and ethers and esters thereof 1975
C10-E04D	. Other alcohols 1975
C10-F	KETONES
C10-F01	Thioketones
C10-F02	Ketones
C10-G	CARBOXYLIC ESTERS AND NITRO Oxygen atoms may be replaced by S, where applicable.
C10-G01	Thiocarboxylic esters
C10-G02	Carboxylic esters
C10-G03	Nitro
C10-H	ETHERS AND HALOGENS Oxygen atoms may be replaced by S, where applicable.
C10-H01	Ethers
C10-H02	Halogen general 1986
C10-H02A	. F linked to aromatic ring 1965
C10-H02B	. F not linked to aromatic ring 1965
C10-H02C	. Br or I linked to aromatic ring 1965
C10-H02D	. Br or I not linked to aromatic ring 1965

C10-H02E	. Cl linked to aromatic ring 1965
C10-H02F	. Cl not linked to aromatic ring 1965
C10-J	HYDROCARBONS
C10-J01	-C≡C- may form part of alicyclic ring 1965
C10-J02	Others 1965
C10-J02A	. 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.

C11-A	FERMENTATION GENERAL Includes fermentation process where microorganisms are not specified	2012
C11-A01	Using microorganisms	1994
C11-A01A	. Using bacteria	2006
C11-A01B	. Using viruses	2006
C11-A01C	. Using fungi	2006
C11-A02	Using enzymes	1994
C11-A02A	. Using oxidoreductases general	2006
C11-A02A1	.. Using oxidases	2006
C11-A02A2	.. Using peroxidases	2006
C11-A02A3	.. Using oxygenases	2006
C11-A02A4	.. Using dehydrogenases, reductases	2006
C11-A02A5	.. Using lipoxygenases	2006
C11-A02B	. Using transferases general	2006
C11-A02B1	.. Using DNA/RNA polymerases	2006
C11-A02B2	.. Using reverse transcriptases	2006
C11-A02B3	.. Using kinases	2006
C11-A02C	. Using hydrolases general	2006
C11-A02C1	.. Using esterases	2006
C11-A02C2	.. Using glycosidases	2006
C11-A02C3	.. Using proteases/peptide hydrolases	2006
C11-A02D	. Using lyases	2006

C11-A02E	. Using isomerases	2006
C11-A02F	. Using ligases	2006
C11-A03	Using algae	2010
C11-A04	Fermentation apparatus Apparatus or device for culturing microorganisms e.g. culturing device of alimentary canal nematodes.	2012
C11-A04A	. Cell/tissue culture apparatus 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	2014
C11-B	EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION If part of a diagnostic process see C11-C08D.	
C11-B01	Separation of stereoisomers by a biological method	2006
C11-B02	Separation of stereoisomers by other method	2006
C11-B03	Other separations also for separation of E,Z and cis/trans isomers	2006
C11-B03A	. Method or device for separation of biological molecules Includes methods or devices for extraction of biological substances such as proteins and nucleic acids	2012
C11-B03B	. Device/methods for concentrating of molecules Includes techniques involving concentrating procedure, only for use when the Novelty of the invention.	2013
C11-B03C	. Method or device for extraction of active substances from plant Patents dealing with extraction of active agents from plants.	2016
C11-B03D	. Method or device for extraction of active substance from animals, arthropods Extraction of active substance from animals, arthropods, etc.	2021

C11-B04	Method or device for removal processes 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	C11-C01B	. Apparatus for combinatorial chemistry 2002
C11-B05	Method or device for preservation and/or storage Includes devices as well as methods for preservation and storage relating to preservation. General storage containers are coded in C11-C06. 2009	C11-C01C	. Other processes 2002
C11-B06	Method or device for cleaning and/or sterilization Method device for cleaning and/or sterilization, such as for medical equipment. 2010	C11-C01C1	.. Stereo-specific reactions 2006
C11-C	GENERAL PROCESS, APPARATUS	C11-C01C2	.. Stereo-selective reactions 2006
C11-C01	General chemical processes 1971	C11-C01C3	.. Racemisation 2012
C11-C01A	. Combinatorial chemistry 2002	C11-C01D	. Stereochemistry Includes geometrical isomers. 2006
C11-C01A1	.. Library synthesis Used when the patent is describing a technique for producing, rather than using a combinatorial library. 2005	C11-C01E	. Amplification apparatus/process for production 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): C11-A02B1</i>
C11-C01A2	.. Liquid-phase synthesis Process in which the chemical building blocks are present in solution. 2005	C11-C02	Syringes Also includes filling/loading of syringes. 1971
C11-C01A3	.. Solid-phase synthesis Process in which the chemical building blocks are bound to a polymer. 2005	C11-C02A	. Hypodermic syringes Includes multi-use as well as single-use and moulded disposable syringes. 2005
C11-C01A4	.. Parallel synthesis 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. 2005	C11-C02B	. Needles Should cover all needles, not just those for syringes. Not for microneedles – these are coded under C12-M02F instead. 2005
C11-C01A5	.. High-volume synthesis Process in which very large numbers of compounds are produced from a large variety of starting materials. 2005	C11-C02C	. Syringe components 2006
		C11-C02D	. Syringe/Injector disposal apparatus Covers disposal of all injectors, not just syringes. Also includes syringe needle removing devices and sharps container. 2006
		C11-C03	Dispensers Includes fertilizer dispensers. 1971

C11-C04	Machine/device/method for use in/on living body, general 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.	2010
C11-C04A	. Implant	2012
C11-C04A1	.. Stent	2006
C11-C04B	. Catheter Includes cannula.	1977
C11-C04C	. Injection gun, general	2005
C11-C04D	. Applicator Includes spraying apparatus for agrochemicals.	2005
C11-C04E	. Needle-free injector A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures.	2005
C11-C04F	. Artificial organs 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 C12-M17) or Implants (coded C11-C04A).	2005
C11-C04G	. Tissue engineering technologies 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
C11-C04H	. Adaptors, fixing devices, seals used for e.g. attaching tubes to syringes, attaching catheter tubes to supports	2009
C11-C04J	. Cements, putties Includes bone cement etc	2010
C11-C04K	. Bioelectronics and neurostimulation Includes electroceuticals, may also be searched with C14-S27.	2015
C11-C04Z	. Non-pharmaceutical alternative therapies 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
C11-C05	Process/ apparatus for producing pharmaceutical, veterinary or agricultural composition 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
C11-C06	Containers, packing, preserving apparatus, storage tanks, transporting apparatus general	1975
C11-C06A	. Closures, caps	1977
C11-C06B	. Formulation counting/measuring devices e.g. tablet counting machines, cylinders for measuring solutions, weighing devices	2009
C11-C06C	. Peripheral devices for therapeutic regimens Includes stands for e.g. infusion devices, tamper alarms.	2010
C11-C06D	. Labels and labelling devices	2011
C11-C06E	. Temperature regulation apparatus	2012

C11-C06Z	<p>. Safety and tamper-proof devices/methods 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 coded here.</p> <p>2017</p>	C11-C07B4	<p>.. Chemiluminescence</p> <p>1986</p>
C11-C07	<p>Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general C11-C07+ and C11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention.</p> <p>1975</p>	C11-C07B5	<p>.. Radioactive tracer other than C11-C07A3</p> <p>1986</p>
C11-C07A	<p>. Antigen - antibody reaction general Excluding C11-A.</p> <p>1977</p>	C11-C07B6	<p>.. Reflectance, light scattering etc.</p> <p>2005</p>
C11-C07A1	<p>.. Production of antigen for test</p> <p>1986</p>	C11-C07B7	<p>.. Apparatus for colorimetric analysis where the apparatus is the novelty of the invention</p> <p>2009</p>
C11-C07A2	<p>.. Antigen or antibody bound to colour tracer</p> <p>1986</p>	C11-C08	<p>Other methods/apparatus for testing/detection Including new drug screening systems.</p> <p>1975</p>
C11-C07A3	<p>.. Antigen or antibody bound to radioactive tracer</p> <p>1986</p>	C11-C08A	<p>. NMR, mass spectroscopy Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under C11-C08G2.</p> <p>1986</p>
C11-C07A4	<p>.. Antigen or antibody bound to enzyme tracer</p> <p>1986</p>	C11-C08B	<p>. Potentiometry, polarography</p> <p>1986</p>
C11-C07A5	<p>.. Antigen or antibody bound to fluorescent or chemiluminescent tracer</p> <p>1986</p>	C11-C08C	<p>. Sampling device and sampling method for testing 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.</p> <p>1986</p>
C11-C07A6	<p>.. Antigen or antibody bound to other type of carrier e.g. erythrocytes, glass, polymer.</p> <p>1986</p>	C11-C08C1	<p>.. Microfluidic devices</p> <p>2007</p>
C11-C07A7	<p>.. Apparatus for antigen antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention</p> <p>1986</p>	C11-C08C2	<p>.. Manipulation of samples Includes methods or devices for treating biopsy or smear samples to make them easier to view.</p> <p>2014</p>
C11-C07B	<p>. Colorimetric tests Including fluorescence (excluding B11-C07A).</p> <p>1977</p>	C11-C08D	<p>. Separation methods of testing and diagnosis general Other than C11-B.</p> <p>1986</p>
C11-C07B1	<p>.. Colorimetric (detection of colour change in a reagent)</p> <p>1986</p>	C11-C08D1	<p>.. Electrophoresis</p> <p>1986</p>
C11-C07B2	<p>.. Spectrophotometric</p> <p>1986</p>	C11-C08D2	<p>.. Chromatography, ion exchange Including High Performance Liquid Chromatography (HPLC).</p> <p>1986</p>
C11-C07B3	<p>.. Fluorescence</p> <p>1986</p>	C11-C08D3	<p>.. Filtration, centrifugation, sedimentation, dialysis</p> <p>1986</p>

C11-C08E	. Biological procedures for testing general Other than C11-A and C11-C07A. 1986	C11-C08E9	.. Protein sequencing method 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. 2018-2018
C11-C08E1	.. Fermentation of micro-organisms, cell or tissue culture e.g. testing antibiotics by cultivation of microorganisms. 1986	C11-C08F	. Protein/Gene analysis general 2002
C11-C08E2	.. Noting physiological responses in animals or plants/modelling diseases e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature. 1986	C11-C08F1	.. Computational genomics Now coded as: C11-C11C1 2002-2018
C11-C08E3	.. Enzyme processes other than polarography or enzyme labelling 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	C11-C08F2	.. Experimental genomics 2002
C11-C08E4	.. DNA sequencing methods Other than those involving enzymes. 1994-2018 Previous code(s): C11-C08, C11-C08E3 Now coded as: C11-C08F7A	C11-C08F3	.. Computational proteomics Now coded as: C11-C11C2 2002-2018
C11-C08E5	.. Nucleic acid hybridisation test methods, use of nucleic acid probes 1994-2018 Previous code(s): C11-C08, C11-C08E3 Now coded as: C11-C08F8	C11-C08F4	.. Experimental proteomics 2002
C11-C08E6	.. Microarrays and biochips 2002	C11-C08F5	.. Functional genomics 2009
C11-C08E7	.. Agonist/antagonist identification 2005	C11-C08F6	.. Functional proteomics 2009
C11-C08E8	.. Biosensor To be searched alongside the physicochemical and/or biological parts where present. 2016	C11-C08F7	.. Sequencing methods general 2019
		C11-C08F7A	... DNA/RNA sequencing methods 2019
		C11-C08F7B	... Protein sequencing methods 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. 2019
		C11-C08F8	.. Nucleic acid hybridization test methods, use of nucleic acid probes Previous code(s): C11-C08, C11-C08E5 2019
		C11-C08G	. Structural conformation analyzing method for biomolecules 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. 2002
		C11-C08G1	.. X-ray crystallography 2002
		C11-C08G2	.. NMR spectroscopy 2002

C11-C08G3	.. Electron microscopy	2002	C11-C08N1J	... Ligase chain reaction (LCR)	2022
C11-C08H	. Drug design by computer modelling	2002	C11-C08N2	.. Isothermal amplification methods, general and other For three or more specific sub-codes or general references to isothermal methods, only the parent code C11-C08N2 is applied.	2022
C11-C08J	. Microscopy/ optical processes & apparatus	2005	C11-C08N2A	... Loop mediated isothermal amplification (LAMP) Also includes RT-LAMP.	2022
C11-C08K	. Other analytical apparatus where the apparatus is the novelty of the invention Novel apparatus for colorimetric analysis codes as C11-C07B7	2009	C11-C08N2B	... Self-sustained sequence replication (3SR)	2022
C11-C08L	. Acoustics Includes ultrasound, infrasound and vibration.	2016	C11-C08N2C	... Strand displacement amplification (SDA)	2022
C11-C08M	. Calorimetry	2020	C11-C08N2D	... Nucleic acid sequence based amplification (NASBA)	2022
C11-C08N	. Biological testing methodologies This code is a section heading only and is not applied to patents. See the relevant C11-C08N sub-codes instead.	2022	C11-C08N2E	... Rolling circle amplification (RCA)	2022
C11-C08N1	.. Thermocycling amplification methods 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.	2022	C11-C08N2F	... Multiple displacement amplification (MDA) Includes Whole Genome Amplification (WGA), Multiple Annealing and Looping Based Amplification Cycles (MALBAC).	2022
C11-C08N1A	... Multiplex PCR	2022	C11-C08N2G	... Helicase dependent amplification (HAD)	2022
C11-C08N1B	... Nested PCR	2022	C11-C08N2H	... Ramification amplification method (RAM)	2022
C11-C08N1C	... Colony PCR	2022	C11-C08N2J	... Recombinase polymerase amplification (RPA)	2022
C11-C08N1D	... Random amplification polymorphism DNA PCR (RAPD-PCR)	2022	C11-C08N3	.. Real-time analysis To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	2022
C11-C08N1E	... Simple sequence repeat-anchored PCR (SSR-PCR)	2022	C11-C08N4	.. Rapid analysis To be searched alongside the relevant testing and diagnostic codes when this term is referenced in the source document.	2022
C11-C08N1F	... Amplified fragment length polymorphism PCR (AFLP-PCR)	2022	C11-C09	Other processes, appts. Processes and apparatus not covered elsewhere in section 11.	1975
C11-C08N1G	... Amplification of refractory mutation system PCR (ARMS-PCR)	2022			
C11-C08N1H	... Restriction fragment length polymorphism (RFLP)	2022			

C11-C09A	. Processes	2006	C11-C12	Nanotechnology (general) Includes nanoswitches made of DNA, nanorobots and DNA origami.	2005
C11-C09B	. Apparatus	2006	C11-C13	Particle engineering 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
C11-C10	Screening general	2002	C11-C14	Security systems (e.g. biometric data, retinal scanning, authentication of drugs, DNA labelling for security purposes, etc.)	2008
C11-C10A	. High throughput screening	2002	C11-C15	Biological tools/models/teaching aids Physical entities only.	2011
C11-C10B	. High content screening 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.	2005	C11-C15A	. Computerised teaching models Includes computer simulations used to show drug effects, such as in university courses.	2014
C11-C10C	. Protein/gene libraries Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.	2005	C11-C16	Apparatus specifically for pediatrics or geriatrics Includes apparatus for neonates and adolescents.	2017
C11-C10D	. Phage display libraries	2005	C11-C17	Bioprinting Includes pre- and post-bioprinting procedures. Additionally coded with C11-C04G for tissue engineering via bioprinting, or C11-C04F for printable organs.	2017
C11-C11	General computing methods & apparatus Includes media and methods for storing, searching and retrieving data and drug databases. Also for computerised pharmacological models.	2005			
C11-C11A	. Patient compliance methods & systems Methods concerning patient compliance, e.g. medication reminders.	2005			
C11-C11B	. Computerised teaching models Includes computer simulations used to show drug effects, such as in university courses.	2014			
C11-C11C	. Computational protein/nucleic acid analysis	2019			
C11-C11C1	.. Computational genomics <i>Previous code(s): C11-C08F1</i>	2019			
C11-C11C2	.. Computational proteomics <i>Previous code(s): C11-C08F3</i>	2019			

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
	<i>Now coded as: C14-A1+</i>	
C12-A02	Antifungal, antialgal, antilichen general	1965-1993
	<i>Now coded as: C14-A04+, C14-B08</i>	
C12-A02A	. Antialgal	1986-1993
C12-A02B	. Antilichen	1986-1993
	<i>Now coded as: C14-B08</i>	
C12-A02C	. Antifungal	1986-1993
	<i>Now coded as: C14-A04+</i>	
C12-A03	Antileprotic	1965-1993
	<i>Now coded as: C14-A01B1</i>	
C12-A04	Antitubercular	1965-1993
	<i>Now coded as: C14-A01B1</i>	
C12-A05	Antivenereal	1965-1993
	<i>Now coded as: C14-N07C, C14-A01A, C14-A01A5</i>	
C12-A06	Antiviral Vaccines are only C02-V. Immunostimulant with B12-A01 (pre-1994).	1965-1993
	<i>Now coded as: C14-A02+</i>	
C12-A07	Skin and wound treatment	1965-1993
	<i>Now coded as: C14-N17+</i>	
C12-A08	Antifouling Prior to 198601 search C12-A02, C12-N01, C12-N04 and C12-N05.	1986-1993
	<i>Now coded as: C12-B15</i>	
C12-B	ANTIPARASITIC TYPE	
C12-B01	Amoebicide	1965-1993
	<i>Now coded as: C14-A03A</i>	
C12-B02	Anthelmintic	1965-1993
	<i>Now coded as: C14-B03</i>	

C12-B03	Antimalarial	1965-1993
	<i>Now coded as: C14-A03B</i>	
C12-B04	Antiparasitic (general), acaricide	1965-1993
	<i>Now coded as: C14-B02</i>	
C12-B05	Coccidiostat	1965-1993
	<i>Now coded as: C14-A03C</i>	
C12-B06	Schistosomicide	1965-1993
	<i>Now coded as: C14-B03A</i>	
C12-B07	Trypanocide	1965-1993
	<i>Now coded as: C14-A03E</i>	
C12-C	CNS-ACTIVE TYPE (I)	
C12-C01	Anaesthetic (general)	1965-1993
	<i>Now coded as: C14-C08</i>	
C12-C02	Anaesthetic (Local)	1965-1993
	<i>Now coded as: C14-C09</i>	
C12-C03	Analeptic	1965-1993
	<i>Now coded as: C14-J01A2</i>	
C12-C04	Antiparkinsonian drug	1965-1993
	<i>Now coded as: C14-J01A3</i>	
C12-C05	Central depressant	1965-1993
	<i>Now coded as: C14-J01B</i>	
C12-C06	Central stimulant	1965-1993
	<i>Now coded as: C14-J01A, C14-J01A1</i>	
C12-C07	Hypnotic	1965-1993
	<i>Now coded as: C14-J01B1</i>	
C12-C08	Sedative	1965-1993
	<i>Now coded as: C14-J01B2</i>	
C12-C09	Synergist	1965-1993
	<i>Now coded as: C14-S09</i>	
C12-C10	Tranquiliser	1965-1993
	<i>Now coded as: C14-J01B4, C14-J01A4, C14-F02D1, C14-J01, C14-J01B3, C14-N16, C14-S07</i>	
C12-D	CNS-ACTIVE TYPE (II)	
C12-D01	Analgesic	1965-1993
	<i>Now coded as: C14-C01</i>	

C12-D02	Antiallergic general 1965-1993 <i>Now coded as: C14-G02A</i>	C12-E	AUTONOMIC N.S. ACTIVE TYPE
C12-D02A	. Autoimmune disease treatment See also C12-D03, C12-D07, C12-D09. 1986-1993 <i>Now coded as: C14-G02D</i>	C12-E01	Autonomic N.S. active general 1965-1993 <i>Now coded as: C14-F02, C14-J02</i>
C12-D02B	. Immune suppressant Immunomodulatory is also coded as C12-A01 and C12-A06 1986-1993 <i>Now coded as: C14-G02, C14-G03, C14-G02C</i>	C12-E02	Muscle relaxant, inotropic See also C12-F01. 1965-1993 <i>Now coded as: C14-J05, C14-J05A, C14-J05C, C14-J05D</i>
C12-D02C	. Complement inhibitor 1986-1993 <i>Now coded as: C14-G02D</i>	C12-E03	Mydriatic/myopic 1965-1993 <i>Now coded as: C14-J05B</i>
C12-D02D	. Anti slow-releasing-substance of anaphylaxis (SRS-A) 1986-1993 <i>Now coded as: C14-G02B</i>	C12-E04	Parasympathetic blocker 1965-1993 <i>Now coded as: C14-J02B+, C14-J05D</i>
C12-D03	Antiarthritic 1965-1993 <i>Now coded as: C14-C010+</i>	C12-E05	Parasympathetic stimulant, acetyl choline potentiator 1965-1993 <i>Now coded as: C14-J02A+</i>
C12-D04	Anticonvulsant 1965-1993 <i>Now coded as: C14-J07</i>	C12-E06	Sympathetic blocker general 1965-1993 <i>Now coded as: C14-J02D, C14-J02D3</i>
C12-D05	Antiemetic 1965-1993 <i>Now coded as: C14-E05</i>	C12-E06A	. Alpha-adrenergic blocker 1986-1993 <i>Now coded as: C14-J02D1</i>
C12-D06	Antihistamine general For gastric secretion inhibitor see also C12-J02. 1965-1993 <i>Now coded as: C14-L10</i>	C12-E06B	. Beta-adrenergic blocker 1986-1993 <i>Now coded as: C14-J02D2</i>
C12-D06A	. H2-secretion inhibitor 1986-1993 <i>Now coded as: C14-L12</i>	C12-E07	Sympathetic stimulant, adrenergic stimulant, adrenaline potentiator 1965-1993 <i>Now coded as: C14-J02C+</i>
C12-D06B	. H1 inhibitor 1986-1993 <i>Now coded as: C14-L11</i>	C12-E08	Ulcers (peptic and duodenal) 1965-1993 <i>Now coded as: C14-E08</i>
C12-D07	Antiinflammatory 1965-1993 <i>Now coded as: C14-C02, C14-C03, C14-C04</i>	C12-E09	Uterus active 1965-1993 <i>Now coded as: C14-N14</i>
C12-D08	Antipyretic 1965-1993 <i>Now coded as: C14-C05, C14-C06</i>	C12-F	CARDIOACTIVE TYPE <i>Now coded as: C14-F</i>
C12-D09	Antirheumatic 1965-1993 <i>Now coded as: C14-C07</i>	C12-F01	Cardioactive general 1965-1993 <i>Now coded as: C14-F01</i>
C12-D10	Convulsant 1965-1993 <i>Now coded as: C14-J06</i>	C12-F01A	. Arrhythmia treatment 1986-1993 <i>Now coded as: C14-F01A</i>
		C12-F01B	. Cardiac stimulant Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotonic, cardiac insufficiency treatment. 1986-1993 <i>Now coded as: C14-F01B</i>

C12-F01C	. Cardiovascular, inotropic Prior to 8602 coded as C12-E02. 1986-1993 <i>Now coded as: C14-F01C</i>	C12-G01B5	.. Antiisomerase 1986-1993 <i>Now coded as: C14-D09</i>
C12-F02	Coronary dilator 1965-1993 <i>Now coded as: C14-F01D, C14-F01E</i>	C12-G01B6	.. Antiligase (antisynthetase) 1986-1993 <i>Now coded as: C14-D10</i>
C12-F03	Ganglion-blocker 1965-1993 <i>Now coded as: C14-F01F</i>	C12-G02	Choleretic and liver 1965-1993 <i>Now coded as: C14-N12</i>
C12-F04	Hypertensive 1965-1993 <i>Now coded as: C14-F02A</i>	C12-G03	Diuretic and kidney For urinary tract infections see C12-A01. 1965-1993 <i>Now coded as: C14-F2E, C14-N10</i>
C12-F05	Hypotensive general 1965-1993 <i>Now coded as: C14-F02B</i>	C12-G04	Hormone adrenocortical Including Addison's disease treatment (general). 1965-1993 <i>Now coded as: C14-D01, C14-D01D, C14-D01E, C14-J03</i>
C12-F05A	. Angiotensin converting enzyme inhibitor, renin inhibitor 1986-1993 <i>Now coded as: C14-F02B1</i>	C12-G04A	. Anti-aging, anti-senility, anti-Alzheimer's disease Including non-hormonal treatment. 1986-1993 <i>Now coded as: C14-J01A4</i>
C12-F05B	. Calcium entry blockers C12-G01 may also be searched. 1986-1993 <i>Now coded as: C14-F02B2</i>	C12-G04B	. Androgenic 1986-1993 <i>Now coded as: C14-D01A</i>
C12-F06	Vasoconstrictor 1965-1993 <i>Now coded as: C14-F02C</i>	C12-G04C	. Oestrogenic 1986-1993 <i>Now coded as: C14-D01B</i>
C12-F07	Vasodilator 1965-1993 <i>Now coded as: C14-F02D+</i>	C12-G04D	. Progestational 1986-1993 <i>Now coded as: C14-D01C</i>
C12-G	METABOLISM ACTIVE TYPE	C12-G05	Leukaemia treatment 1965-1993 <i>Now coded as: C14-H01A</i>
C12-G01	Antimetabolite general 1965-1993 <i>Now coded as: C14-J04, C14-L06, C14-L07, C14-L08</i>	C12-G06	Thyroid agent 1965-1993 <i>Now coded as: C14-N11</i>
C12-G01A	. Antihormone, antiandrogenic, antioestrogenic, antiprogestational, adrenal cortex inhibitor 1986-1993 <i>Now coded as: C14-D02+</i>	C12-G07	Tumour-inhibitor 1965-1993 <i>Now coded as: C14-H01, C14-H01B</i>
C12-G01B	. Enzyme inhibitor 1986-1993 <i>Now coded as: C14-D03, C14-D04</i>	C12-H	BLOOD ACTIVE TYPE
C12-G01B1	.. Antioxidoreductase 1986-1993 <i>Now coded as: C14-D05+</i>	C12-H01	Antianaemic 1965-1993 <i>Now coded as: C14-F03</i>
C12-G01B2	.. Antitransferase 1986-1993 <i>Now coded as: C14-D06+</i>	C12-H02	Anticoagulant 1965-1993 <i>Now coded as: C14-F04</i>
C12-G01B3	.. Antihydrolase 1986-1993 <i>Now coded as: C14-D07+</i>	C12-H03	Antilipaemic 1965-1993 <i>Now coded as: C14-F06, C14-F07</i>
C12-G01B4	.. Antilyase 1986-1993 <i>Now coded as: C14-D08</i>	C12-H04	Coagulant 1965-1993 <i>Now coded as: C14-F08</i>

C12-H05	Hypoglycaemic 1965-1993 <i>Now coded as: C14-F09, C14-F10</i>	C12-K	DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)
C12-H06	Plasma and blood substitutes 1965-1993 <i>Now coded as: C14-F11</i>	C12-K01	Antitussive 1965-1993 <i>Now coded as: C14-K01B</i>
C12-J	GASTROINTESTINAL ACTIVE TYPE	C12-K02	Bronchodilator 1965-1993 <i>Now coded as: C14-K01D</i>
C12-J01	Anabolic agent, nutritional, achlorhydria treatment (humans) 1965-1993 <i>Now coded as: C14-E10+, C14-E11</i>	C12-K03	Contraceptive 1965-1993 <i>Now coded as: C14-P01+</i>
C12-J02	Anorectic, antisecretory 1965-1993 <i>Now coded as: C14-E07, C14-E12</i>	C12-K04	Diagnosis and testing general 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.
C12-J03	Antacid 1965-1993 <i>Now coded as: C14-E01, C14-E03</i>	C12-K04A	. Diagnosis of diseases or conditions in animals general Including detection of glucose in blood and ethanol in breath. <i>Now coded as C12-K04G.</i> 1986-2015
C12-J04	Antidiarrhoeal, antihæmorrhoidal 1965-1993 <i>Now coded as: C14-E02, C14-E04</i>	C12-K04A1	.. Diagnosis of tumours, cancer <i>Now coded as C12-K04G2A.</i> 1986-2015
C12-J05	Antidote general 1965-1993 <i>Now coded as: C14-M01, C14-M01C</i>	C12-K04A2	.. Diagnosis of heart and circulatory disorders <i>Now coded as C12-K04G2B.</i> 1986-2015
C12-J05A	. Alcoholism treatment 1986-1993 <i>Now coded as: C14-M01A</i>	C12-K04A3	.. Diagnosis of genetic disorders <i>Now coded as C12-K04G2C.</i> 1986-2015
C12-J05B	. Antismoking 1986-1993 <i>Now coded as: C14-M01B</i>	C12-K04A4	.. Diagnosis of microbial infections <i>Now coded as C12-K04G1A.</i> 1986-2015
C12-J05C	. Anti-heavy metal poisoning 1986-1993 <i>Now coded as: C14-M01D</i>	C12-K04A4A	... Detection of viral diseases <i>Now coded as C12-K04G1B.</i> 2005-2015
C12-J05D	. Pesticide or herbicide antidote 1986-1993 <i>Now coded as: C14-M01</i>	C12-K04A4B	... Detection of bacterial diseases <i>Now coded as C12-K04G1C.</i> 2005-2015
C12-J05E	. Protecting plants from poisons 1986-1993 <i>Now coded as: C14-M01F</i>	C12-K04A4C	... Detection of fungal diseases <i>Now coded as C12-K04G1D.</i> 2015-2015
C12-J06	Emetic 1965-1993 <i>Now coded as: C14-E06</i>		
C12-J07	Laxative 1965-1993 <i>Now coded as: C14-E09</i>		
C12-J08	Bone disorder treatment, osteoporosis 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>		

C12-K04A5	.. Diagnosis of CNS disorders <i>Now coded as C12-K04G2D.</i> 1986-2015	C12-K04E	. Testing for substances other than for diseases Not in body fluids. 1986
C12-K04A6	.. Diagnosis of pregnancy, testing or measuring sex hormone levels and oestrus cycle <i>Now coded as C12-K04G2E.</i> 1986-2015	C12-K04E1	.. Drug discovery process 2005
C12-K04A7	.. Detection of parasites Including protozoa and helminths. <i>Now coded as C12-K04G1E.</i> 2006-2015	C12-K04E2	.. Environmental testing Includes testing for contaminants in rivers. 2005
C12-K04A8	.. Diagnosis of immunological disorders <i>Now coded as C12-K04G2F.</i> 2007-2015	C12-K04E3	.. Other drug testing includes quality control 2007
C12-K04A9	.. Diagnosis of respiratory disorders Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. <i>Now coded as C12-K04G2G.</i> 2012-2015	C12-K04F	. Tests involving nucleic acid, hybridisation probes etc. 1994 <i>Previous code(s): C12-K04, C12-K04A</i>
C12-K04A10	.. Diagnosis or detection of endocrine and hormonal diseases Including thyroid diseases. <i>Now coded as C12-K04G2H.</i> 2015-2015	C12-K04G	. Diagnosis of diseases or conditions in animals general Including detection of glucose in blood and ethanol in breath. 2016 <i>Previous code(s): C12-K04A</i>
C12-K04B	. In vivo radiopharmaceutical diagnostics 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	C12-K04G1	.. Diagnosis of infections and exogenous disorders 2016
C12-K04C	. In vivo imaging (other than by X-ray or radiopharmaceuticals) Includes imaging of complete organs, cells e.g. cancer cells, or other biological molecules within a whole body rather than a sample. 1986	C12-K04G1A	... Diagnosis of microbial diseases general and other 2016 <i>Previous code(s): C12-K04A4</i>
C12-K04C1	.. Ultrasonics 1994 <i>Previous code(s): C12-K04C</i>	C12-K04G1B	... Detection of viral diseases 2016 <i>Previous code(s): C12-K04A4A</i>
C12-K04C2	.. NMR 1994 <i>Previous code(s): C12-K04C</i>	C12-K04G1C	... Detection of bacterial diseases 2016 <i>Previous code(s): C12-K04A4B</i>
C12-K04C3	.. Tomography Includes PET (positron emission tomography). 2007	C12-K04G1D	... Detection of fungal diseases 2016 <i>Previous code(s): C12-K04A4C</i>
C12-K04D	. Testing for plant disorders or diseases 1986	C12-K04G1E	... Detection of parasites Including protozoa and helminths. 2016 <i>Previous code(s): C12-K04A7</i>
		C12-K04G2	.. Diagnosis of endogenous disorders general and other 2016
		C12-K04G2A	... Diagnosis of tumors, cancer 2016 <i>Previous code(s): C12-K04A1</i>
		C12-K04G2B	... Diagnosis of heart and circulatory disorders 2016 <i>Previous code(s): C12-K04A2</i>
		C12-K04G2C	... Diagnosis of genetic disorders 2016 <i>Previous code(s): C12-K04A3</i>

C12-K04G2D	... Diagnosis of CNS disorders <i>Previous code(s): C12-K04A5</i>	2016
C12-K04G2E	... Diagnosis of pregnancy, testing or measuring sex hormone levels and estrus cycle <i>Previous code(s): C12-K04A6</i>	2016
C12-K04G2F	... Diagnosis of immunological disorders <i>Previous code(s): C12-K04A8</i>	2016
C12-K04G2G	... Diagnosis of respiratory disorders Includes detection of diseases such as anoxia, cystic fibrosis and bronchitis. <i>Previous code(s): C12-K04A9</i>	2016
C12-K04G2H	... Diagnosis of endocrine and hormonal diseases Including thyroid diseases. <i>Previous code(s): C12-K04A10</i>	2016
C12-K04G2I	... Diagnosis of gastrointestinal disorders	2016
C12-K04G2J	... Diagnosis of renal and urological disorders	2016
C12-K04G2K	... Diagnosis of metabolic disorders	2021
C12-K05	Expectorant <i>Now coded as: C14-K01E</i>	1965-1993
C12-K06	Respiratory active <i>Now coded as: C14-K01, C14-K01C</i>	1965-1993
C12-K07	Contrast agents and medium 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
C12-L	COSMETIC PREPARATION TYPE	
C12-L01	Antiperspirant <i>Now coded as: C14-R03</i>	1965-1993
C12-L02	Cosmetic <i>Now coded as: C14-R01</i>	1965-1993
C12-L03	Dental agent <i>Now coded as: C14-N06</i>	1965-1993

C12-L04	Ear, nose, eye mouth and throat preparation <i>Now coded as: C14-N02, C14-N03, C14-N04, C14-N05</i>	1965-1993
C12-L05	Hair preparation <i>Now coded as: C14-R02</i>	1965-1993
C12-L06	Insect repellent <i>Now coded as: C14-B05</i>	1965-1993
C12-L07	Perfume <i>Now coded as: C14-R04</i>	1965-1993
C12-L08	Sunscreen agent <i>Now coded as: C14-R05</i>	1965-1993
C12-L09	Veterinary	1965-1993
C12-L10	Agricultural composition general	1966-1993
C12-M	FORMULATIONS TYPE Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.	
C12-M01	Aerosol, inhalent, smoke general	
C12-M01A	. Aerosol	1986
C12-M01B	. Inhalent	1986
C12-M01B1	.. Dry powder inhaler 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
C12-M01B2	.. Multidose inhaler A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage.	2005
C12-M01B3	.. Nebuliser A device which is used to administer a solution of drug in the form of a fine mist for you 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

C12-M01B4	.. Metered dose inhaler	2008	C12-M10	Controlled release general	
C12-M01C	. Smoke Also includes incense.	1986	C12-M10A	. Sustained release general Active ingredient is gradually released over a period of time.	1986
C12-M01D	. Intranasal <i>Now coded as: C12-M12Q</i>	2002-2006	C12-M10A1	.. Osmotic pump 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
C12-M01E	. Other gaseous forms	2005	C12-M10A2	.. Reservoir devices Active drug core encapsulated within a polymer film or coat through which it diffuses.	2005
C12-M02	Cream, gel, ointment, plaster		C12-M10A3	.. Multi-layer tablet 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
C12-M02A	. Toothpaste, toothpowder From 198601 C12-L03 is not additionally applied.	1986	C12-M10A4	.. Other matrix devices 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
C12-M02B	. Ointment, cream, lotion Includes liniment, paste, balm and other general oil-based formulations.	1986	C12-M10A5	.. Pendant devices Active is bound to polymer, from which it is released by hydrolytic enzymes in the body.	2005
C12-M02C	. Cataplasm, poultice Applying heat.	1986	C12-M10A6	.. Dual release devices 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.	2005
C12-M02D	. Adhesive sheet, sticking plaster, bandage, gauze 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	C12-M10A7	.. Nanotechnology devices Use of nanotechnology to deliver drugs to specific sites and control their release at that point. Includes quantum dots.	2005
C12-M02E	. Dusting powder Topical use only.	1986			
C12-M02F	. Transdermal Administration of a drug through dermal or mucosal membrane. Includes microneedles.	1986			
C12-M02G	. Gels/hydrogels	2006			
C12-M03	Emulsion				
C12-M04	Packaging material, apparatus This code is used in conjunction with only the C, C01, C07, C08 and C09 sub-sections of C11.				
C12-M05	Pharmaceutical composition general				
C12-M06	Preservative				
C12-M07	Solution				
C12-M08	Suppository Also includes pessaries				
C12-M09	Surfactant				

C12-M10B	. Delayed release This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines. 1986	C12-M11C	. Capsule Excluding microcapsule. 1986
C12-M10C	. Rapid release 2002	C12-M11D	. Pellet, prill, granule, particle Excluding C12-M11B. 1986
C12-M10D	. Pulsed release Active drug core coated with specific polymers and agents, where active agent is released in a "drug pulse" after a time lag. 2005	C12-M11E	. Microcapsule Excluding C12-M11F. 1986
C12-M10E	. Site-specific release 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. 2005	C12-M11F	. Liposomes/niosomes Includes non-ionic surfactant-based liposomes (when site specific release is not mentioned). Includes micelles. 1986
C12-M10E1	.. Using lipid-based systems 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. 2005	C12-M11G	. Powder 1986
C12-M10E2	.. Using antibodies A site-specific release form in which the drug is bound to an antibody. 2005	C12-M11H	. Polymorphic form 2010
C12-M10E3	.. Using nucleic acids A site-specific release form in which the drug is bound to nucleic acid. 2017	C12-M11H1	.. Special amorphous form 2006
C12-M10E4	.. Using protein/peptide A site-specific release form in which the drug is bound to a protein/peptide. 2019	C12-M11H2	.. Special crystal form 2010
C12-M10F	. Externally stimulated devices (e.g. electrically or ultrasonically) 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. 2005	C12-M11J	. Effervescent formulation Includes effervescent tablets and effervescent granules. 1994
C12-M11	Tablets, capsules, pills etc. general	C12-M11K	. Tablet with two or more coating layers 1994 <i>Previous code(s): C12-M11B</i>
C12-M11A	. Anticaking 1986	C12-M11L	. Water-soluble formulation Includes water-soluble tablets and water-soluble granules 2002
C12-M11B	. Tablet (pressed) 1986	C12-M11M	. Chewable tablet 2005
		C12-M11N	. Microparticle 2006
		C12-M11P	. Lyophilized form Also includes freeze dried forms 2006
		C12-M11Q	. Nanoformulations Includes nanoparticles 2008
		C12-M11Q1	.. Nanoparticle 2020
		C12-M11Q2	.. Nanoemulsion 2020
		C12-M11Q3	.. Nanosuspension 2020
		C12-M11R	. Coated form general and other Tablets with two or more coating layers are coded under C12-M11K 2009

C12-M11R1	.. Coated capsules	2009	C12-M12M	. Intravaginal	2005
C12-M11R2	.. Coated microparticles	2009	C12-M12N	. Oral general	2005
C12-M11R3	.. Coated tablets	2012	C12-M12O	. Intraosseous Administration directly into bone.	2020
C12-M11S	. Foam formulation	2011	C12-M12P	. Rectal general	2005
C12-M11T	. Lozenge	2014	C12-M12Q	. Intranasal	2006
C12-M11U	. Dual dosage forms E.g. tablet in capsule / pellet in capsule. To be searched alongside the C12 codes for each individual dosage component.	2016	C12-M12R	. Intrathecal	2012
C12-M11V	. Colloidal form May be searched with other code(s) from C12-M.	2016	C12-M12S	. Intraarticular	2013
C12-M11Z	. Pro-formulation Additional code to indicate the pro-form of a formulation, e.g. pro-liposomes. Applied in conjunction with other C12-M11 codes.	2015	C12-M12T	. Intramedular Intramedular/intramedullary.	2013
C12-M12	MODE OF ADMINISTRATION	2005	C12-M12U	. Intraperitoneal	2013
C12-M12A	. Buccal, sublingual	2005	C12-M12V	. Epidural Mode of administration is through the spinal cord.	2015
C12-M12B	. External, topical	2005	C12-M12W	. Intravesical Injecting drugs directly to urinary bladder.	2017
C12-M12C	. Injection	2005	C12-M12X	. Intratumoral	2019
C12-M12D	. Infusion	2005	C12-M12Y	. Intracardiac Administration directly into the heart.	2020
C12-M12E	. Intraarterial	2005	C12-M12Z	. Specific treatment regime Includes sequential administration of drugs and tapered dosing regimes	2011
C12-M12F	. Intravenous	2005	C12-M13	Foliar application	2005
C12-M12G	. Intraaural	2005	C12-M14	Suspensions, dispersions	2005
C12-M12H	. Intraocular Includes intravitreal.	2005	C12-M15	Film, sheet Includes laminates.	2005
C12-M12I	. Intratracheal	2020	C12-M16	Prosthesis	2005
C12-M12J	. Intramuscular	2005	C12-M17	Surgical sponge, tampon	2005
C12-M12K	. Subcutaneous	2005	C12-M18	Encapsulation	2005
C12-M12L	. Intrauterine, cervical	2005	C12-M19	Gene delivery methods	2006

C12-M19A	. Gene delivery by viral methods	2006
C12-M19B	. Gene delivery by non-viral methods	2006
C12-M20	Taste masking agent	2007
C12-M21	Absorbent, accelerator	2007
C12-M22	Formulations to prevent drugs from being abused	2008
C12-N	PESTICIDES, FERTILIZERS	
C12-N01	Pesticides general	1965-1993
C12-N02	Insecticides	1965-1993
C12-N03	Lures, baits etc.	1965-1993
C12-N04	Molluscicide, slugicide	1965-1993
C12-N05	Rodenticide Including birds etc.	1965-1993
C12-N06	Rodent repellent Including birds etc.	1965-1993
C12-N07	Soil fumigants, sterilants and seed protectants	1965-1993
C12-N08	Soil improving (other than nutrients), synthetic growth media	1965-1993
C12-N09	Soil nutrients Inorganic, including trace elements.	1965-1993
C12-N10	Soil nutrients (others)	1965-1993
C12-P	PLANT GROWTH REGULANT TYPE	
C12-P01	Plant growth regulants general	1965-1993
C12-P02	Defoliants, desiccants, chemical mowing	1965-1993
C12-P03	Fruit drop and set, thinning of fruit	1965-1993
C12-P04	Growth stimulants, phytohormones	1965-1993
C12-P05	Herbicide (total and general)	1965-1993
C12-P06	Herbicide (selective)	1965-1993
C12-P07	Moss, lichen controlling	1965-1993

C12-P08	Rooting cpds. (rhizogenes)	1965-1993
C12-P09	Sprouting inhibitors, seed germination inhibitors, growth inhibitors	1965-1993
C12-P10	Moisture conservation (mulches)	1965-1993
C12-Q01	TARGETED THERAPIES Includes pharmacogenomics, precision medicine and personalised medicine.	2006
C12-Q01A	. Pharmacogenomics general	2006
C12-R	FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS e.g. herbicide formulation specifically excluding glyphosate. The component(s) excluded is/are not coded in sections C01-C10.	2009

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.

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

C14-A01A9	.. Vibrio e.g. V. cholerae, V. parahaemolyticus.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B	. Gram-positive genera, general and other	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B1	.. Mycobacteria e.g. M. bovis, M. phlei.	1994
	<i>Previous code(s): C12-A01, C12-A03, C12-A04</i>	
C14-A01B1A	... M. tuberculosis	2005
C14-A01B1B	... M. leprae	2005
C14-A01B2	.. Streptococcus e.g. S. pyogenes, S. faecalis, S. pneumoniae (pneumococci), S. lactis.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B3	.. Streptomyces e.g. S. griseus, S. scabies.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B4	.. Staphylococcus e.g. S. aureus, S. epidermiditis.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B5	.. Bacillus e.g. B. anthracis, B. cereus.	2006
C14-A01C	. Plant antibacterial general	1994
	<i>Previous code(s): C12-A06</i>	
C14-A01C1	.. Enterobacteria (plant) e.g. Erwinia. Including soft rot, fibre blight treatment.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01C2	.. Pseudomonas (plant) Including plant spot, canker, gummosis treatment.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01C3	.. Agrobacteria Including crown gall treatment.	1994
	<i>Previous code(s): C12-A01</i>	

C14-A01X	. Combating resistant bacteria This code is applied in conjunction with one or more codes from section C14-A01. 2013	C14-A02B1	.. Retrovirus Including leuco- and oncoviruses, T-cell leukemia virus, HIV, Rous sarcoma. Treatment of AIDS directed against symptoms or immune system is coded C14-G01B. 1994 <i>Previous code(s): C12-A06, C12-G05, C12-G07</i>
C14-A02	Antiviral general 1994 <i>Previous code(s): C12-A06</i>	C14-A02B2	.. (Para/ortho)Myxovirus 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. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A	. DNA Viruses general and other 1994 <i>Previous code(s): C12-A06</i>	C14-A02B3	.. Picornavirus 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. 1994 <i>Previous code(s): C12-A06, C12-G02</i>
C14-A02A1	.. Adenovirus 1994 <i>Previous code(s): C12-A06</i>	C14-A02B4	.. Rhabdovirus Including rabies. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A2	.. Arbovirus This code is used for treatment of e.g. yellow fever or viral encephalitis. 1994 <i>Previous code(s): C12-A06</i>	C14-A02B5	.. Coronavirus Including SARS, also coded as C14-K01D. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A3	.. Herpesvirus e.g. cytomegalovirus, Epstein-Barr, chicken pox. 1994 <i>Previous code(s): C12-A06</i>	C14-A02B6	.. Togavirus Including rubella. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A4	.. Poxvirus 1994 <i>Previous code(s): C12-A06</i>	C14-A02B7	.. Reovirus e.g. rotavirus. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A5	.. Hepatitis B virus 1994 <i>Previous code(s): C12-A06, C12-G02</i>	C14-A02B8	.. Plant antiviral general This code covers treatment of plant viral diseases e.g. mosaic, yellow disease. 1994 <i>Previous code(s): C12-A06</i>
C14-A02A6	.. Papovavirus e.g. papilloma. 1994 <i>Previous code(s): C12-A06</i>		
C14-A02A7	.. Hepatitis C treatment Now coded as C14-A02B9. 2002-2014		
C14-A02A8	.. Hepatitis D treatment 2002		
C14-A02A9	.. Parvovirus Includes treatment of "Slapped cheek" syndrome. 2005		
C14-A02B	. RNA Viruses general and other 1994 <i>Previous code(s): C12-A06</i>		
C14-A02B0	.. Calivirus e.g. norovirus, lagovirus, sapovirus, feline calivirus 2014		

C14-A02B9	.. Flavivirus 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.	2005	C14-A04X	. Combating resistant fungi This code is applied in conjunction with one or more codes from section C14-A04	2013
C14-A02X	. Combating resistant viruses This code is applied in conjunction with one or more codes from section C14-A02	2013	C14-A05	Antialgal	1994
C14-A03	Antiprotozoal general and other <i>Previous code(s): C12-B04</i>	1994	C14-A06	Plant antifungal general <i>Previous code(s): C12-A02C</i>	1994
C14-A03A	. Amoebicide <i>Previous code(s): C12-B01</i>	1994	C14-A06A	. Alternaria <i>Previous code(s): C12-A02C</i>	1994
C14-A03B	. Antimalarial Plasmodium is the malarial parasite. <i>Previous code(s): C12-B03</i>	1994	C14-A06B	. Botrytis <i>Previous code(s): C12-A02C</i>	1994
C14-A03C	. Coccidiostat Includes Eimeria and Isospora. <i>Previous code(s): C12-B05</i>	1994	C14-A06C	. Fusarium <i>Previous code(s): C12-A02C</i>	1994
C14-A03D	. Trichomonicide, histomonicide <i>Previous code(s): C12-B04</i>	1994	C14-A06D	. Helminthosporium <i>Previous code(s): C12-A02C</i>	1994
C14-A03E	. Trypanocide i.e. Sleeping sickness. <i>Previous code(s): C12-B07</i>	1994	C14-A06E	. Phytophthora <i>Previous code(s): C12-A02C</i>	1994
C14-A03F	. Other antiprotozoal	2005	C14-A06F	. Pythium <i>Previous code(s): C12-A02C</i>	1994
C14-A03X	. Combating resistant protozoa This code is applied in conjunction with one or more codes from section C14-A03.	2014	C14-A06G	. Rhizoctonia <i>Previous code(s): C12-A02C</i>	1994
C14-A04	Antifungal general and other	1994	C14-A06H	. Sclerotinia <i>Previous code(s): C12-A02C</i>	1994
C14-A04A	. Aspergillus <i>Previous code(s): C12-A02C</i>	1994	C14-A06J	. Sclerotium <i>Previous code(s): C12-A02C</i>	1994
C14-A04B	. Candida This code covers treatment of thrush. <i>Previous code(s): C12-A02C</i>	1994	C14-A06K	. Septoria <i>Previous code(s): C12-A02C</i>	1994
C14-A04C	. Trichophyton, Microsporum This code covers treatment of e.g. ringworm, tinea, Athlete's foot. <i>Previous code(s): C12-A02C</i>	1994	C14-A06L	. Venturia <i>Previous code(s): C12-A02C</i>	1994
			C14-A06M	. Verticillium <i>Previous code(s): C12-A02C</i>	1994
			C14-A06N	. Powdery mildew e.g. Erysiphe, Sphaerotheca, Podosphaera, Uncinula. <i>Previous code(s): C12-A02C</i>	1994
			C14-A06P	. Downey mildew e.g. Plasmopara, Peronospora. <i>Previous code(s): C12-A02C</i>	1994

C14-A06R	. Rusts <i>Previous code(s): C12-A02C</i>	1994	C14-B04A	. Acaricide Includes miticides, tickicides. <i>Previous code(s): C12-B04</i>	1994
C14-A06S	. Smuts, bunts e.g. Ustilago, Tilletia. <i>Previous code(s): C12-A02C</i>	1994	C14-B04B	. Insecticide general and other <i>Previous code(s): C12-N02</i>	1994
C14-A06T	. Others <i>Previous code(s): C12-A02C</i>	1994	C14-B04B1	.. Coleoptera Covers beetle killing. <i>Previous code(s): C12-N02</i>	1994
C14-A06X	. Combating resistant plant fungi This code is applied in conjunction with one or more codes from section C14-A06	2013	C14-B04B2	.. Dictyoptera Covers cockroach killing and termite killing. <i>Previous code(s): C12-N02</i>	1994
C14-B	PESTICIDES AND OTHER ANTIPARASITICS	1994	C14-B04B3	.. Diptera Includes house fly, gnat, and mosquito killing. <i>Previous code(s): C12-N02</i>	1994
C14-B01	Pesticide general This code is applied only when type is unspecified or general. <i>Previous code(s): C12-N01</i>	1994	C14-B04B4	.. Ephemeroptera Includes mayfly killing. <i>Previous code(s): C12-N02</i>	1994
C14-B02	Antiparasitic general This code is applied only when type is unspecified or general. <i>Previous code(s): C12-B04</i>	1994	C14-B04B5	.. Hemiptera Includes aphid (greenfly) killing. <i>Previous code(s): C12-N02</i>	1994
C14-B02X	. Combating resistant parasites	2020	C14-B04B6	.. Hymenoptera Includes bee, wasp and ant killing. <i>Previous code(s): C12-N02</i>	1994
C14-B03	Vermicide, antihelmintic general and other <i>Previous code(s): C12-B02</i>	1994	C14-B04B7	.. Lepidoptera Covers butterfly and moth killing. <i>Previous code(s): C12-N02</i>	1994
C14-B03A	. Nematocide Including threadworm. <i>Previous code(s): C12-B02</i>	1994	C14-B04B8	.. Orthoptera Covers locust killing. <i>Previous code(s): C12-N02</i>	1994
C14-B03B	. Schistosomicide <i>Previous code(s): C12-B06</i>	1994	C14-B04B9	.. Siphonaptera Includes flea killing. <i>Previous code(s): C12-N02</i>	1994
C14-B03C	. Tapeworm <i>Previous code(s): C12-B02</i>	1994	C14-B04X	. Combating resistant arthropods This code is applied in conjunction with one or more codes from section C14-B04	2013
C14-B03D	. Distomicide, other fluke	2005	C14-B05	Arthropod repellent Covers insects, crustaceans, arachnids, millipedes, ticks and mites <i>Previous code(s): C12-L06</i>	1994
C14-B03X	. Combating resistant worms and helminths general This code is applied in conjunction with one or more codes from section C14-B03.	2018			
C14-B04	Arthropodicide general and other Includes crustacicide, arachnicide. <i>Previous code(s): C12-N01</i>	1994			

C14-B06	Arthropod attractant (pheromone) Covers insects, crustaceans, arachnids, millipedes, ticks and mites <i>Previous code(s): C12-N03</i>	1994
C14-B07	Arthropod sterilant Covers insects, crustaceans, arachnids, millipedes, ticks and mites <i>Previous code(s): C12-K03</i>	1994
C14-B08	Antilichen <i>Previous code(s): C12-A02B</i>	1994
C14-B09	Rodenticide <i>Previous code(s): C12-N05</i>	1994
C14-B10	Avicide <i>Previous code(s): C12-N05</i>	1994
C14-B11	Piscicide <i>Previous code(s): C12-N05</i>	1994
C14-B12	Molluscicide Includes gastropodicide, slug, snail, bivalve, octopus killing. <i>Previous code(s): C12-N04</i>	1994
C14-B13	Animal repellent (other than insect) <i>Previous code(s): C12-N06</i>	1994
C14-B14	Lures, baits (other than insect pheromones) <i>Previous code(s): C12-N03</i>	1994
C14-B15	Antifouling <i>Previous code(s): C12-A08</i>	1994
C14-C	ANAESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN	1994
C14-C01	Analgesic 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. <i>Previous code(s): C12-D01</i>	1994
C14-C02	Antigout <i>Previous code(s): C12-D07, C12-G03</i>	1994

C14-C03	Antiinflammatory general This code is used for treatment of general oedema or inflammation. Specific inflammation treatments are coded elsewhere when possible e.g. Bronchitis is coded C14-K01 only, colitis as C14-E01C only etc. <i>Previous code(s): C12-D07</i>	1994
C14-C04	Antipyretic <i>Previous code(s): C12-D08</i>	1994
C14-C05	Antihypothermia <i>Previous code(s): C12-D08</i>	1994
C14-C06	Antirheumatic <i>Previous code(s): C12-D09</i>	1994
C14-C07	General anaesthetic <i>Previous code(s): C12-C01</i>	1994
C14-C08	Local anaesthetic <i>Previous code(s): C12-C02</i>	1994
C14-C09	Antiarthritic general and other <i>Previous code(s): C12-D03</i>	1994
C14-C09A	. Osteoarthritis <i>Previous code(s): C12-D03</i>	1994
C14-C09B	. Rheumatoid-arthritis <i>Previous code(s): C12-D03</i>	1994
C14-D	HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS 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.	1994
C14-D01	Hormonal general and other* <i>Previous code(s): C12-G04</i>	1994
C14-D01A	. Androgenic* <i>Previous code(s): C12-G04B</i>	1994
C14-D01B	. Oestrogenic* <i>Previous code(s): C12-G04C</i>	1994
C14-D01C	. Progestational* <i>Previous code(s): C12-G04D</i>	1994

C14-D01D	. Other steroid*	1994	C14-D03	Enzyme inhibitors general and other	1994
	<i>Previous code(s): C12-G04</i>			<i>Previous code(s): C12-G01B</i>	
C14-D01E	. Peptide hormone activity*	1994	C14-D04	Coenzyme inhibitors	1994
	<i>Previous code(s): C12-G04</i>			<i>Previous code(s): C12-G01B</i>	
C14-D01E1	.. Melanocortin agonist		C14-D05	Antioxidoreductases general and other	1994
	Adrenocorticotrophic hormone agonist.	2005		<i>Previous code(s): C12-G01B1</i>	
C14-D01E2	.. Melanin concentrating hormone agonist	2005	C14-D05A	. Antioxidases	1994
				<i>Previous code(s): C12-G01B1</i>	
C14-D02	Antihormonal general and other**	1994	C14-D05B	. Antiperoxidases	1994
	<i>Previous code(s): C12-G01A</i>			<i>Previous code(s): C12-G01B1</i>	
C14-D02A	. Antisteroid general and other**	1994	C14-D05C	. Antioxygenases	1994
	<i>Previous code(s): C12-G01A</i>			<i>Previous code(s): C12-G01B1</i>	
C14-D02A1	.. Antialdosterone**	1994	C14-D05D	. Antidehydrogenases, Antireductases	1994
	<i>Previous code(s): C12-G01A</i>			<i>Previous code(s): C12-G01B1</i>	
C14-D02A2	.. Anticholesterol**	1994	C14-D06	Antitransferases general and other	
	<i>Previous code(s): C12-H03</i>			Includes HIV integrase inhibitor.	1994
C14-D02A3	.. Antioestrogenic			<i>Previous code(s): C12-G01B2</i>	
	This code also covers oestrogenic antagonist/inhibitor activity and oestrogen receptor antagonist/inhibitor activities.	2005	C14-D06A	. AntiDNA/RNA polymerase	1994
C14-D02A4	.. Antiprogestational			<i>Previous code(s): C12-G01B2</i>	
	This code also covers progestational antagonist/inhibitor activity and progestational receptor antagonist/inhibitor activities.	2005	C14-D06B	. Antireverse transcriptase	1994
C14-D02A5	.. Antiandrogenic			<i>Previous code(s): C12-G01B2</i>	
	This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities.	2005	C14-D06C	. Antikinase	2005
C14-D02A6	.. Other antisteroid hormone		C14-D07	Antihydrolases general and other	1994
	This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities.	2005		<i>Previous code(s): C12-G01B3</i>	
C14-D02B	. Antipeptide hormone**	1994	C14-D07A	. Antiesterases	
	<i>Previous code(s): C12-G01A</i>			Including lipase, nuclease, restriction enzyme, sulphatase, phosphatase inhibitors.	1994
C14-D02B1	.. Melanocortin antagonist	2005		<i>Previous code(s): C12-G01B3</i>	
C14-D02B2	.. Melanin concentrating hormone antagonist	2005	C14-D07A1	.. Antiphosphodiesterases	2005
			C14-D07B	. Antiglycosidases	
				Including amylase, cellulase, lactase inhibitors.	1994
				<i>Previous code(s): C12-G01B3</i>	

C14-D07C	. Antiproteases, antipeptide hydrolases Including chymotrypsin, trypsin, papain, fibrinolysin, renin, collagenases, elastases inhibitors. Renin inhibitor used as hypotensive is coded C14-F02B1 only. <i>Previous code(s): C12-G01B3</i>	1994
C14-D07C1	.. Antimetalloproteases	2005
C14-D08	Antilyases Including adenylyl cyclases, (de)carboxylases, aldolases, dehydratases inhibitors. <i>Previous code(s): C12-G01B4</i>	1994
C14-D09	Antisomerases Including racemases, tautomerases, epimerases, mutases inhibitors. <i>Previous code(s): C12-G01B5</i>	1994
C14-D10	Antilgases Including synthetases, some carboxylases inhibitors. <i>Previous code(s): C12-G01B6</i>	1994
C14-E	DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM	1994
C14-E01	Antacid <i>Previous code(s): C12-J03</i>	1994
C14-E02	Antidiarrhoeal <i>Previous code(s): C12-J04</i>	1994
C14-E03	Antiflatulent <i>Previous code(s): C12-J03</i>	1994
C14-E04	Antihæmorrhoidal <i>Previous code(s): C12-J04</i>	1994
C14-E05	Antiemetic <i>Previous code(s): C12-D05</i>	1994
C14-E06	Emetic <i>Previous code(s): C12-J06</i>	1994
C14-E07	Gastric secretion inhibitor <i>Previous code(s): C12-J02</i>	1994
C14-E08	Ulcer treatment (peptic, gastric, duodenal) Skin ulcers are coded C14-N17H. <i>Previous code(s): C12-E08</i>	1994
C14-E09	Laxative <i>Previous code(s): C12-J07</i>	1994
C14-E10	Gastrointestinal dysfunction general and other <i>Previous code(s): C12-J01</i>	1994
C14-E10A	. Oesophageal <i>Previous code(s): C12-J01</i>	1994
C14-E10B	. Gastric Includes gastritis. <i>Previous code(s): C12-J01</i>	1994
C14-E10C	. Bowel Including irritable and inflammatory bowel (e.g. IBS). <i>Previous code(s): C12-J01</i>	1994
C14-E10C1	.. Inflammatory bowel conditions	2005
C14-E10D	. Dysentery <i>Previous code(s): C12-B01, C12-A01, C12-A06, C12-J04, C12-J05</i>	1994
C14-E10E	. Gastrointestinal flora	2008
C14-E11	Anabolic, anorexia treatment general <i>Previous code(s): C12-J01</i>	1994
C14-E11A	. Anorexia	2005
C14-E11B	. Cachexia Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	2005
C14-E11C	. Malnutrition	2005
C14-E11D	. Bulimia	2005
C14-E12	Anorectic, obesity treatment (appetite depressant) <i>Previous code(s): C12-J02</i>	1994
C14-F	DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM 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

C14-F01	Cardioactive general and other	1994	C14-F02D1	.. Cerebral ischaemia treatment	1994
	<i>Previous code(s): C12-F01</i>			<i>Previous code(s): C12-F07, C12-C10</i>	
C14-F01A	. Antiarrhythmic	1994	C14-F02D2	.. Pulmonary ischaemia treatment	1994
	<i>Previous code(s): C12-F01A</i>			<i>Previous code(s): C12-K06</i>	
C14-F01B	. Cardiac stimulant		C14-F02E	. Lymphatic disease treatment	1994
	Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment.	1994		<i>Previous code(s): C12-G03</i>	
	<i>Previous code(s): C12-F01B</i>		C14-F02F	. Peripheral vascular disorder/angiogenic general	2002
C14-F01C	. Cardiac depressant	1994	C14-F02F1	.. Angiogenic	2002
	<i>Previous code(s): C12-F01C</i>				
C14-F01D	. Antianginal	1994	C14-F02F2	.. Anti-angiogenic	2002
	<i>Previous code(s): C12-F02</i>				
C14-F01E	. Coronary dilator, coronary ischemia treatment	1994	C14-F02F3	.. Peripheral vascular disorder	2002
	<i>Previous code(s): C12-F02</i>				
C14-F01F	. Ganglion blocker	1994	C14-F03	Antianaemic	
	<i>Previous code(s): C12-F03</i>			This code covers treatment of blood cell ratio imbalance.	1994
C14-F01G	. Restenosis treatment	2002		<i>Previous code(s): C12-H01</i>	
C14-F02	Circulatory active general and other	1994	C14-F04	Anticoagulant, antiaggregants, thrombolytic	1994
	<i>Previous code(s): C12-E01</i>			<i>Previous code(s): C12-H02</i>	
C14-F02A	. Hypertensive (calcium agonists)*	1994	C14-F05	Reperfusion treatment	1994
	<i>Previous code(s): C12-F04</i>				
C14-F02B	. Hypotensive general and other	1994	C14-F06	Antilipaemic	1994
	<i>Previous code(s): C12-F05</i>			<i>Previous code(s): C12-H03</i>	
C14-F02B1	.. Angiotensin converting enzyme inhibitor, angiotensin antagonists**		C14-F06A	. Dyslipidemia	2005
	This code is also applied to renin inhibitor when it is used as hypotensive.	1994			
	<i>Previous code(s): C12-F05A</i>		C14-F06B	. Hypertriglyceremia	2011
C14-F02B2	.. Calcium antagonists/entry blockers**	1994	C14-F07	Antiartherosclerotic	1994
	<i>Previous code(s): C12-F05B, C12-G01</i>			Includes atherosclerosis.	
C14-F02C	. Vasoconstrictor	1994		<i>Previous code(s): C12-H03</i>	
	<i>Previous code(s): C12-F06</i>		C14-F08	Coagulant	1994
C14-F02D	. Vasodilator, general ischaemia treatment	1994		<i>Previous code(s): C12-H04</i>	
	<i>Previous code(s): C12-F07</i>		C14-F09	Hypoglycaemic	1994
				Treatment of diabetic symptoms is coded C14-S04.	
				<i>Previous code(s): C12-H05</i>	
			C14-F10	Hyperglycaemic	1994
				<i>Previous code(s): C12-H05</i>	
			C14-F11	Plasma and blood substitutes	1994
				<i>Previous code(s): C12-H06</i>	

C14-G	DRUGS ACTING ON THE IMMUNE SYSTEM	1994	C14-H01B	. Antiproliferative, inhibitor of cell division, cytostatic, cytoprotective	1994
				<i>Previous code(s): C12-D07, C12-E08, C12-G07</i>	
C14-G01	Immunostimulant general and other	1994	C14-H01C	. Dermatological cancers	2005
	<i>Previous code(s): C12-A01, C12-A06</i>		C14-H01D	. Endocrine cancers	2005
C14-G01A	. Interferon inducing		C14-H01D1	.. Breast cancers	2005
	This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	1994	C14-H01D2	.. Thyroid cancers	2005
	<i>Previous code(s): C12-A06</i>		C14-H01E	. Gastrointestinal cancers	2005
C14-G01B	. AIDS treatment		C14-H01E1	.. Colon cancers	2005
	A drug which combats HIV is coded C14-A02B1.	1994	C14-H01E2	.. Oesophageal cancers	2005
	<i>Previous code(s): C12-A06</i>		C14-H01E3	.. Gall bladder cancers	2005
C14-G02	Immunosuppressant general and other	1994	C14-H01E4	.. Intestinal cancers	2005
	<i>Previous code(s): C12-D02B</i>		C14-H01E5	.. Hepatic cancers	2005
C14-G02A	. Antiallergic	1994	C14-H01E6	.. Pancreatic cancers	2005
	<i>Previous code(s): C12-D02</i>		C14-H01E7	.. Rectal cancers	2005
C14-G02B	. Antianaphylactic	1994	C14-H01E8	.. Stomach cancers	2005
	<i>Previous code(s): C12-D02D</i>		C14-H01F	. Genitourinary cancers	2005
C14-G02C	. Graft/transplant rejection treatment	1994	C14-H01F1	.. Cervical/uterine cancers	2005
	<i>Previous code(s): C12-D02B</i>		C14-H01F2	.. Kidney cancers	2005
C14-G02D	. Autoimmune disease treatment	1994	C14-H01F3	.. Ovarian cancers	2005
	<i>Previous code(s): C12-D02A</i>		C14-H01F4	.. Prostate cancers	2005
C14-G03	Immunomodulatory	1994	C14-H01F5	.. Testicular cancers	2005
	<i>Previous code(s): C12-A01, C12-A06, C12-D02B</i>		C14-H01F6	.. Bladder cancers	2005
C14-H	CANCER RELATED DRUGS		C14-H01G	. Immunological 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	C14-H01G1	.. Hodgkin's lymphoma	2005
C14-H01	Anticancer general and other	1994	C14-H01G2	.. Non-Hodgkin's lymphoma	2005
	<i>Previous code(s): C12-G07</i>				
C14-H01A	. Leukaemia treatment	1994			
	<i>Previous code(s): C12-G05</i>				

C14-H01H	. Musculoskeletal cancers	2005
C14-H01H1	.. Osteocancers	2005
C14-H01H2	.. Sarcoma	2005
C14-H01J	. Neurological cancers	2005
C14-H01J1	.. Brain tumours	2005
C14-H01K	. Oral and respiratory cancers	2005
C14-H01K1	.. Buccal cavity and pharynx cancers	2005
C14-H01K2	.. Larynx cancers	2005
C14-H01K3	.. Lung cancers	2005
C14-H01L	. Other cancers	2005
C14-H01L1	.. Multiple myelomas	2005
C14-H02	Mutagen, carcinogen	1994
	<i>Previous code(s): C12-G07</i>	
C14-H03	Apoptotic	2002
C14-H04	Anti-apoptotic	2002
C14-H05	Antiproliferative (non-cancerous) e.g. Hyperplasia.	2006
C14-H06	Tumor sensitizers Search when sensitizer type is not specified.	2008
C14-H06A	. Radiosensitizers	2016
C14-H06B	. Photosensitizers	2016
C14-H06C	. Chemosensitizers	2021
C14-H07	Hypoplasia and aplasia To be searched in the general case where the affected organ(s) are not specified.	2016
C14-H00X	Treatment resistant cancers 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.	2014

C14-J	DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS 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.	1994
C14-J01	CNS active general and other Covers terms such as cerebroprotective and neuroprotective.	1994
	<i>Previous code(s): C12-C10</i>	
C14-J01A	. Stimulants general and other	1994
	<i>Previous code(s): C12-C06</i>	
C14-J01A1	.. Antidepressant	1994
	<i>Previous code(s): C12-C06</i>	
C14-J01A2	.. Analeptic	1994
	<i>Previous code(s): C12-C03</i>	
C14-J01A3	.. Antiparkinsonian	1994
	<i>Previous code(s): C12-C04</i>	
C14-J01A4	.. Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, antiamnesia, nootropics	1994
	<i>Previous code(s): C12-C10, C12-G04A</i>	
C14-J01B	. Depressants general and other	1994
	<i>Previous code(s): C12-C05</i>	
C14-J01B1	.. Hypnotic	1994
	<i>Previous code(s): C12-C07</i>	
C14-J01B2	.. Sedative	1994
	<i>Previous code(s): C12-C08</i>	
C14-J01B3	.. Antipsychotic, neuroleptic, antischizophrenic	1994
	<i>Previous code(s): C12-C10, C12-E02</i>	
C14-J01B4	.. Tranquilliser, anxiolytic	1994
	<i>Previous code(s): C12-C10</i>	
C14-J02	Autonomic NS active general and other	1994
	<i>Previous code(s): C12-E01</i>	
C14-J02A	. Parasympathetic stimulants, mimetics general and other*	1994
	<i>Previous code(s): C12-E05</i>	

C14-J02A1	.. Cholinergic (acetyl choline potentiators)*	1994	C14-J05B	. Mydriatic/myopic/hyperopic	1994
	<i>Previous code(s): C12-E05</i>			<i>Previous code(s): C12-E03</i>	
C14-J02A2	.. Muscarinic*	1994	C14-J05C	. Muscle contractant (positively inotropic)	1994
	<i>Previous code(s): C12-E05</i>			<i>Previous code(s): C12-E02</i>	
C14-J02B	. Parasympathetic depressant, parasympatholytic general and other**	1994	C14-J05D	. Antispastic, antispasmodic, spasmolytic, spasm treatment	1994
	<i>Previous code(s): C12-E04</i>			<i>Previous code(s): C12-E02, C12-E04</i>	
C14-J02B1	.. Anticholinergic**	1994	C14-J05E	. Duchenne's muscular dystrophy treatment	2002
	<i>Previous code(s): C12-E04</i>				
C14-J02B2	.. Antimuscarinic**	1994	C14-J06	Convulsant	1994
	<i>Previous code(s): C12-E04</i>			<i>Previous code(s): C12-D10</i>	
C14-J02C	. Sympathetic stimulants general and other**	1994	C14-J07	Anticonvulsant	1994
	<i>Previous code(s): C12-E07</i>			<i>Previous code(s): C12-D04</i>	
C14-J02C1	.. Adrenergic, adrenaline potentiator (alpha and beta)*	1994	C14-K	DRUGS ACTING ON THE RESPIRATORY SYSTEM	1994
	<i>Previous code(s): C12-E07</i>				
C14-J02C2	.. Dopaminergic*	1994	C14-K01	Respiratory active general and other	1994
	<i>Previous code(s): C12-E07</i>			Including anoxia, cystic fibrosis and bronchitis treatment.	
C14-J02D	. Sympathetic depressants, sympatholytic general and other**	1994		<i>Previous code(s): C12-K06</i>	
	<i>Previous code(s): C12-E06</i>		C14-K01A	. Antiasthmatic	1994
C14-J02D1	.. Alpha-adrenergic blocker**	1994		<i>Previous code(s): C12-D02, C12-K02</i>	
	<i>Previous code(s): C12-E06A</i>		C14-K01B	. Antitussive	1994
C14-J02D2	.. Beta-adrenergic blocker**	1994		<i>Previous code(s): C12-K01</i>	
	<i>Previous code(s): C12-E06B</i>		C14-K01C	. Bronchoconstrictor	1994
C14-J02D3	.. Antidopaminergic*	1994		<i>Previous code(s): C12-K06</i>	
	<i>Previous code(s): C12-E06</i>		C14-K01D	. Bronchodilator	1994
C14-J03	Serotonergic*	1994		<i>Previous code(s): C12-K02</i>	
	<i>Previous code(s): C12-G04</i>		C14-K01E	. Decongestant, expectorant, mucolytic	1994
C14-J04	Antiserotonergic**	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-G01</i>			<i>Previous code(s): C12-K05</i>	
C14-J05	Muscular active general and other (inotropic)	1994	C14-K01F	. Adult respiratory distress syndrome (ARDS)	2002
	<i>Previous code(s): C12-E02</i>				
C14-J05A	. Muscle relaxant (negatively inotropic)	1994			
	<i>Previous code(s): C12-E02</i>				

C14-L	AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE 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.	1994
C14-L01	Agonist/mimetic general and other	1994
C14-L01A	. Enzyme agonist/mimetic	2005
C14-L01A1	.. Oxidoreductase agonist	2007
C14-L01A2	.. Transferase agonist	2007
C14-L01A3	.. Hydrolase agonist	2007
C14-L01A4	.. Lyase agonist	2007
C14-L01A5	.. Isomerase agonist	2007
C14-L01A6	.. Synthetase agonist	2007
C14-L01B	. Cannabinoid agonist	2006
C14-L01C	. PPAR agonist Peroxisome proliferator-activated receptor agonist.	2006
C14-L01D	. Nitric oxide agonist	2007
C14-L02	Angiotensin agonist/mimetic N.B. Angiotensin antagonists/inhibitors are coded C14-F02B1.	1994
C14-L03	Interleukin agonist/mimetic	1994
C14-L04	Prostaglandin, leukotriene, thromboxane agonist/mimetic	1994
C14-L05	Histaminergic, histamine agonist/mimetic	1994
C14-L06	Antagonist, inhibitor, antimetabolite general and other <i>Previous code(s): C12-G01</i>	1994
C14-L06B	. Cannabinoid antagonist	2006
C14-L06C	. PPAR antagonist Peroxisome proliferator-activated receptor antagonist.	2006
C14-L06D	. Nitric oxide antagonist	2007
C14-L07	Interleukin antagonist/inhibitor <i>Previous code(s): C12-G01</i>	1994
C14-L08	Prostaglandin, leukotriene, thromboxane antagonist/inhibitor <i>Previous code(s): C12-G01</i>	1994
C14-L09	Histamine antagonist/inhibitor general and other	1994
C14-L10	H1 antagonist/inhibitor <i>Previous code(s): C12-D06B</i>	1994
C14-L11	H2 antagonist/inhibitor <i>Previous code(s): C12-D06A</i>	1994
C14-L12	Proton pump inhibitors <i>Previous code(s): C14-L06</i>	2006
C14-M	ANTIDOTES <i>Previous code(s): C12-J05</i>	1994
C14-M01	Antidote general and other To be searched for treating chronic and habitual conditions: treating acute intoxication is searched under C14-M03. <i>Previous code(s): C12-J05</i>	1994
C14-M01A	. Alcoholism treatment <i>Previous code(s): C12-J05A</i>	1994-2006
C14-M01B	. Antismoking <i>Previous code(s): C12-J05B</i>	1994-2006
C14-M01C	. Antidrug addiction <i>Previous code(s): C12-J05</i>	1994-2006
C14-M01D	. Antiheavy metal poisoning <i>Previous code(s): C12-J05C</i>	1994
C14-M01E	. Pesticide/herbicide antidote Includes herbicide safeners prior to 2009. <i>Previous code(s): C12-J05D</i>	1994
C14-M01F	. Protecting plants from poisons <i>Previous code(s): C12-J05E</i>	1994
C14-M02	Agrochemical antidote general	2006
C14-M02A	. Chemoprotectant	2006

C14-M02B	. Radioprotectant	2006
C14-M03	Recreational drug antidote general and unspecified To be searched for treating acute intoxication, treating chronic conditions is searched under C14-M01.	2016
C14-M03A	. Sobering agent for acute alcohol intoxication	2016
C14-M03B	. Antidote for acute recreational drug intoxication other than alcohol	2016
C14-N	ORGANS	1994
C14-N01	Bone disorder treatment, osteoporosis <i>Previous code(s): C12-J08</i>	1994
C14-N01A	. Osteoporosis	2005
C14-N01B	. Fractures, disorders of healing and osteogenesis	2005
C14-N02	Ear disorder treatment <i>Previous code(s): C12-L04</i>	1994
C14-N02A	. Balance related disorder and vestibular disorder	2008
C14-N03	Eye disorder treatment <i>Previous code(s): C12-L04</i>	1994
C14-N03A	. Glaucoma	2005
C14-N04	Nose disorder treatment <i>Previous code(s): C12-L04</i>	1994
C14-N05	Mouth/throat disorder treatment <i>Previous code(s): C12-L04</i>	1994
C14-N05A	. Mouth disorder E.g. cold sores and xerostomia (chronic dry mouth).	2005
C14-N05B	. Throat disorder Covers throat disorders, but excludes disorders of the esophagus.	2005
C14-N06	Dental general and other <i>Previous code(s): C12-L03</i>	1994
C14-N06A	. Anticaries/antiplaque <i>Previous code(s): C12-A01, C12-L03</i>	1994

C14-N06B	. Periodontal <i>Previous code(s): C12-L03, C12-L04</i>	1994
C14-N07	Urogenital/anorectal disease treatment general and other <i>Previous code(s): C12-A05, C12-D07, C12-G03, C12-G04</i>	1994
C14-N07A	. Prostate <i>Previous code(s): C12-G03, C12-G04</i>	1994
C14-N07B	. Cystitis <i>Previous code(s): C12-D07</i>	1994
C14-N07C	. Venereal <i>Previous code(s): C12-A05</i>	1994
C14-N07D	. Incontinence treatment <i>Previous code(s): C12-G03</i>	1994
C14-N08	Diuretic <i>Previous code(s): C12-G03</i>	1994
C14-N09	Antidiuretic <i>Previous code(s): C12-G03</i>	1994
C14-N10	Kidney <i>Previous code(s): C12-G03</i>	1994
C14-N11	Thyroid <i>Previous code(s): C12-G06</i>	1994
C14-N12	Liver <i>Previous code(s): C12-G02</i>	1994
C14-N13	Pancreas <i>Previous code(s): C12-G02</i>	1994
C14-N14	Uterus Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under C14-P01B. <i>Previous code(s): C12-E09</i>	1994
C14-N15	Spleen <i>Previous code(s): C12-G02</i>	1994
C14-N16	Brain and spinal cord Including meningitis, encephalitis, stroke treatment. <i>Previous code(s): C12-C10, C12-E01</i>	1994
C14-N16A	. Bovine spongiform encephalopathy (BSE, "Mad cow disease")	2002

C14-N16B	. Creutzfeld Jakob disease (CJD)	2002	C14-P02	Infertility treatment	1994
C14-N16C	. Kuru	2005	C14-P03	Antibabortive	1994
C14-N16D	. Scrapie A fatal degenerative disease affecting the CNS of sheep and goats.	2005		<i>Previous code(s): C12-E09</i>	
C14-N17	Skin treatment general and other Fungal skin diseases are coded under C14-A04.	1994	C14-P04	Sexual dysfunction Sexual dysfunction general.	2006
	<i>Previous code(s): C12-A07</i>		C14-P04A	. Male sexual dysfunction	2006
C14-N17A	. Burn	1994	C14-P04B	. Female sexual dysfunction	2006
	<i>Previous code(s): C12-A07</i>		C14-P05	Menopause/andropause and related symptoms 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
C14-N17B	. Wound other (physical trauma)	1994			
	<i>Previous code(s): C12-A07</i>		C14-R	COSMETICS	1994
C14-N17C	. Psoriasis, dermatitis	1994		<i>Previous code(s): C12-L02</i>	
	<i>Previous code(s): C12-A07</i>		C14-R01	Cosmetic general and other	1994
C14-N17D	. Acne	1994		<i>Previous code(s): C12-L02</i>	
	<i>Previous code(s): C12-A07</i>		C14-R02	Hair preparation Includes formulations for fur.	1994
C14-N17E	. Dandruff and seborrhea	2005		<i>Previous code(s): C12-L05</i>	
C14-N17F	. Antiscarring	2005	C14-R03	Antiperspirant	1994
C14-N17G	. Pruritis	2008		<i>Previous code(s): C12-L01</i>	
C14-N17H	. Dermal ulcers Also includes cold sores, which are additionally coded with C14-A02A3.	2019	C14-R04	Perfume	1994
				<i>Previous code(s): C12-L07</i>	
C14-N18	Mammary gland Including mastitis.	2002	C14-R05	Sunscreen agent	1994
C14-N19	Nail disease treatment Fungal nail diseases also search under C14-A04.	2020		<i>Previous code(s): C12-L08</i>	
C14-P	DRUGS ACTING ON THE REPRODUCTIVE SYSTEM	1994	C14-S	MISCELLANEOUS ACTIVITY TERMS	1994
C14-P01	Contraceptive general and other	1994	C14-S01	Multiple sclerosis treatment, demyelinating diseases	1994
	<i>Previous code(s): C12-K03</i>			<i>Previous code(s): C12-E01</i>	
C14-P01A	. Male, spermicide	1994	C14-S02	Dwarfism treatment	1994
	<i>Previous code(s): C12-K03</i>			<i>Previous code(s): C12-G04</i>	
C14-P01B	. Female, abortifacient, antiovolatory	1994	C14-S03	Gene therapy general	1994
	<i>Previous code(s): C12-K03</i>		C14-S03A	. Gene therapy	2002

C14-S03B	. Antisense therapy	2002	C14-S11D2	.. Live-attenuated (weakened) vaccine	2005
C14-S03C	. RNA interference	2005	C14-S11D3	.. Synthetic/genetically engineered vaccine	2005
C14-S03D	. shRNA interference	2008	C14-S11E	. Therapeutic vaccine other Vaccine other than antimicrobial or anticancer e.g. immunocontraceptive or antiasthma vaccine. Unspecified vaccines should be searched under the general code C14-S11.	2015
C14-S04	Diabetes This code is used when a drug targets the symptoms and associated disorders. Hypoglycemia is coded C14-F09. <i>Previous code(s): C12-H05</i>	1994	C14-S12	Veterinary <i>Previous code(s): C12-L09</i>	1994
C14-S04A	. Type II diabetes Also known as adult onset diabetes or non-insulin dependent diabetes.	2005	C14-S13	Metabolic disorders Includes enzyme deficiencies and conditions arising from such.	2005
C14-S05	Shock treatment general (excluding anaphylactic) Anaphylactic shock is coded C14-G02B. <i>Previous code(s): C12-A07</i>	1994	C14-S13A	. Acidosis	2005
C14-S06	Toxic (septic) shock <i>Previous code(s): C12-A01, C12-A06</i>	1994	C14-S14	Joint disorders general Includes conditions affecting tendons and bursa.	2005
C14-S07	Traumatic shock <i>Previous code(s): C12-C10</i>	1994	C14-S14A	. Cartilage and connective tissue disorders	2009
C14-S08	Antioxidant/free radical scavenger	1994	C14-S14B	. Soft tissue disorders	2009
C14-S09	Synergist <i>Previous code(s): C12-C09</i>	1994	C14-S15	Broad formulation Patent is concerned with the formulation type rather than the drugs contained in it.	2005
C14-S11	Vaccine general <i>Previous code(s): C02-V02</i>	1994	C14-S16	Many diseases treated More than 15 diseases are said to be treated. Specific codes for the individual disease are still included.	2005
C14-S11A	. Antiviral vaccine <i>Previous code(s): C02-V02</i>	1994	C14-S17	Agricultural activity	2005
C14-S11B	. Other antimicrobial vaccine For example antibacterial. <i>Previous code(s): C02-V02</i>	1994	C14-S18	Drug combination Used when specific combination of drugs are claimed.	2006
C14-S11B1	.. Antibacterial vaccine	2005	C14-S20	Genetic disorder	2006
C14-S11B2	.. Antiprotozoal vaccine	2005	C14-S20A	. Chromosomal abnormality disorder	2006
C14-S11B3	.. Antiparasitic vaccine	2005	C14-S20B	. Fabry disease	2015
C14-S11C	. Anticancer vaccine <i>Previous code(s): C02-V02</i>	1994	C14-S20C	. Hunter syndrome	2015
C14-S11D	. Vaccine type	2005			
C14-S11D1	.. Whole-killed (inactive) vaccine	2005			

C14-S21	Cell therapy	2006	C14-T03	Soil nutrients (inorganic)	1994
C14-S22	Prophylaxis Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder. Applied only for veterinary patents in C	2009	C14-T04	Soil nutrients (others)	1994
C14-S23	Unspecified activity 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	C14-T05	Trace element fertilisers	2005
C14-S25	Chemotherapy	2010	C14-U	PLANT GROWTH REGULANTS/PROTECTANTS	1994
C14-S26	Radiotherapy	2010	C14-U01	Plant growth regulants (general), phytohormones	1994
C14-S27	Electromagnetic therapy Includes ultrasound as well as photo therapy using high energy photons. Also includes electrical stimulation.	2010	C14-U01A	. Defoliants, desiccants, chemical mowing	1994
C14-S28	Prodrugs Applied only when the prodrug is the novelty of the invention.	2012	C14-U01B	. Fruit drops and set, thinning of fruit plants	1994
C14-T	FERTILISERS/SOIL IMPROVING GENERAL This code is also applied when three or more of C14-T01 to C14-T05 would be applicable.	1994	C14-U01C	. Growth stimulants, sprouting and germination stimulants	1994
C14-T01	Soil improving (other then nutrients) Synthetic growth media Includes bioremediation of soil.	1994	C14-U01D	. Rooting compounds (rhizogenes)	1994
C14-T01A	. Synthetic growth medium Can be used in conjunction with other C14 codes for general agricultural activity.	2005	C14-U01E	. Sprouting inhibitors, seed germination inhibitors, growth inhibitors	1994
C14-T01B	. Erosion inhibition of soil	2005	C14-U01F	. Inducing flowering in plants	2006
C14-T01C	. Frost protection of soil	2005	C14-U01G	. Conferring colour improvement to plants Includes improving chlorophyll content, amino acid content, sugar content, etc. in plants and their parts.	2019
C14-T01D	. Nitrification inhibitor	2005	C14-U02	Soil fumigants, seed protectants and sterilants Not for plant protectants post-2014, these should be searched according to the relevant pathogen(s) in C14.	1994
C14-T02	Moisture conservation (mulches)	1994	C14-U03	Conferring herbicide resistance to plants	2006
	<i>Previous code(s): C12-P10</i>		C14-U04	Conferring pest resistance to plants Conferring pest resistance (e.g. fungi, insects) to plants.	2006
				<i>Previous code(s): C12-N09</i>	
				<i>Previous code(s): C12-N10</i>	
				<i>Previous code(s): C12-P01</i>	
				<i>Previous code(s): C12-P02</i>	
				<i>Previous code(s): C12-P03</i>	
				<i>Previous code(s): C12-P04</i>	
				<i>Previous code(s): C12-P08</i>	
				<i>Previous code(s): C12-P09</i>	
				<i>Previous code(s): C12-N07</i>	

C14-U05	Conferring stress tolerance to plants Conferring stress tolerance (e.g. drought, heat) to plants.	2006
C14-V	HERBICIDES	1994
C14-V	Herbicide (general) Used only when the herbicide is not specified as being total or selective.	2015
C14-V01	Herbicide (total) <i>Previous code(s): C12-P05</i>	2015
C14-V02	Herbicide (selective) (general and others) 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
C14-V02A	. Aromatic crops Includes herbs. <i>Previous code(s): C12-P06</i>	1994
C14-V02B	. Cereal crop Includes rice. <i>Previous code(s): C12-P06</i>	1994
C14-V02C	. Fruit crop <i>Previous code(s): C12-P06</i>	1994
C14-V02D	. Oil crop Includes nuts, sunflower, rape. <i>Previous code(s): C12-P06</i>	1994
C14-V02E	. Ornamental crop <i>Previous code(s): C12-P06</i>	1994
C14-V02F	. Vegetable crop <i>Previous code(s): C12-P06</i>	1994
C14-V03	Post-emergence, pre-emergence for total herbicide Used only when the herbicide is stated to be both post- and pre-emergent in action. <i>Previous code(s): C12-P06</i>	1994
C14-V03A	. Post-emergence <i>Previous code(s): C12-P06</i>	1994
C14-V03B	. Pre-emergence <i>Previous code(s): C12-P06</i>	1994

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

C15-A	A VITAMINS	
C15-A00	Vitamin A and carotenoids <i>previously coded C03-A</i>	2011
C15-A00A	. Modified vitamin A and carotenoids	2011
C15-B	B VITAMINS	2011
C15-B00	B vitamins general	2011
C15-B00A	. Modified B vitamins general	2011
C15-B01	Vitamin B1 (thiamine) <i>previously coded C03-B</i>	2011
C15-B01A	. Modified vitamin B1 (thiamine)	2011
C15-B02	Vitamin B2 (riboflavin) <i>previously coded C03-C</i>	2011
C15-B02A	. Modified vitamin B2 (riboflavin)	2011
C15-B06	Vitamin B6 (pyridoxine) <i>previously coded C03-D</i>	2011
C15-B06A	. Modified vitamin B6 (pyridoxine)	2011
C15-B12	Vitamin B12 and cobalamine <i>previously coded C03-E</i>	2011
C15-B12A	. Modified vitamin B12 and cobalamine	2011
C15-C	C VITAMINS	
C15-C00	Vitamins C (ascorbic acid) <i>previously coded C03-F</i>	2011
C15-C00A	. Modified vitamin C (ascorbic acid)	2011

C15-D	D VITAMINS	
C15-D00	D vitamins general <i>previously coded C03-G</i>	2011
C15-D00A	. Modified D vitamins general	2011
C15-D01	Vitamin D1	2011
C15-D01A	. Modified vitamin D1	2011
C15-D02	Vitamin D2	2011
C15-D02A	. Modified vitamin D2	2011
C15-D03	Vitamin D3	2011
C15-D03A	. Modified vitamin D3	2011
C15-D04	Vitamin D4	2020
C15-D04A	. Modified vitamin D4	2020
C15-D05	Vitamin D5	2020
C15-D05A	. Modified vitamin D5	2020
C15-E	E VITAMINS	
C15-E00	Vitamin E, tocopherols, tocotrienols Includes Tocodienols and Tocotrienols. <i>previously coded C03-H</i>	2011
C15-E00A	. Modified vitamin E and tocopherols	2011
C15-K	K VITAMINS	
C15-K00	K vitamins general <i>previously coded C03-J</i>	2011
C15-K00A	. Modified K vitamins general	2011
C15-K01	Vitamin K1	2011
C15-K01A	. Modified vitamin K1	2011
C15-K02	Vitamin K2	2011
C15-K02A	. Modified vitamin K2	2011
C15-K03	Vitamin K3	2016
C15-K03A	. Modified vitamin K3	2016

C15-K04	Vitamin K4	2016
C15-K04A	. Modified vitamin K4	2016
C15-K05	Vitamin K5	2011
C15-K05A	. Modified vitamin K5	2011
C15-K06	Vitamin K6	2017
C15-K06A	. Modified vitamin K6	2017
C15-K07	Vitamin K7	2020
C15-K07A	. Modified vitamin K7	2020
C15-P	P VITAMINS	
C15-P00	Vitamin P <i>previously coded C03-K</i>	2011
C15-P00A	. Modified vitamin P	2011
C15-X	PROVITAMINS	2011
C15-Z	GENERAL OR UNSPECIFIED VITAMINS <i>previously coded C03-L</i>	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

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

D01-B02B

- Cake**
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)

1986

D01-B02C

- Biscuits, crackers, "cookies", rice crackers, unleavened bread**

1986

D01-B02D

- Pizza bases, pastry products, pastry cases**
e.g. for meringues

1986

D01-B02E

- Noodles, pasta, spaghetti, vermicelli, macaroni**

1986

D01-B02F

- Batter products, pancakes, waffles, fried batter coatings, artificial chips from dough**
For batter coatings D03-H01S is also searchable.

1986

D01-B

General and others

D02 PROCESSING MEAT, POULTRY, FISH

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

D03 FOODSTUFFS AND TREATMENT

D03-A	PRESERVATION	
D03-A01	Meat or sausages	
D03-A02	Fish, fish roe, sea food and products	
D03-A03	Eggs and products Including turtle eggs	
D03-A04	Vegetables, fruit or mushrooms	
D03-A05	Edible seeds e.g. cereals and nuts	
D03-A	General and others	
D03-B	MILK AND MILK PRODUCTS	
D03-B01	Production of curds in milk	1972
D03-B02	Separation of curds and whey	1972
D03-B03	Moulding cheese	1972
D03-B04	Additives for cheese	1972
D03-B05	Transporting cheese and packing	1972
D03-B06	Cheese (other than above) Including stillage, maturing and bean curd (tofu)	1972
D03-B07	Milk concentrates e.g. powder	1972
D03-B08	Milk additives	1972
D03-B09	Testing milk	1972
D03-B10	Transporting milk; carriers for milk	1972
D03-B11	Synthetic milk Including bean milk	1972
D03-B12	Butter Excluding butter substitutes, see D03-C. <i>Previous code(s): D03-B</i>	1994
D03-B13	Cream Includes artificial cream <i>Previous code(s): D03-B</i>	1994
D03-B14	Yoghurt <i>Previous code(s): D03-B</i>	1994

D03-B15	Milk general	2011
D03-B	General and others	
D03-C	BUTTER SUBSTITUTES, EDIBLE OILS, FATS	
D03-C	General	
D03-C01	Cooking and edible oils (liquid)	1994
	<i>Previous code(s): D03-C</i>	
D03-C02	Margarine, spreads and cooking fats (solid)	1994
	<i>Previous code(s): D03-C</i>	
D03-D	COFFEE, TEA AND SUBSTITUTES	
D03-D	Coffee, tea and substitutes, general	
D03-D01	Coffee general	1986
D03-D01A	. Packaging Including coffee bags	1986
D03-D01B	. Extraction Including decaffeination, concentration, freeze drying and freeze dried coffee	1986
D03-D01C	. Grinding, cutting	1986
D03-D01D	. Steaming, roasting, drying Excludes extraction D03-D01B	1986
D03-D02	Tea general	1986
D03-D02A	. Packaging Including tea bags	1986
D03-D02B	. Extraction Including decaffeination, concentration, freeze drying	1986
D03-D02C	. Grinding, cutting	1986
D03-D02D	. Steaming, drying, fermenting, roasting Excludes extraction D03-D02B	1986
D03-D03	Artificial tea or coffee or beverages such as herbal tea Excluding D03-D01: and D03-D02: search also D03-H01G	1986
D03-D03A	. Artificial coffee	2011

D03-D03B	. Artificial tea	2011
D03-E	COCOA AND CONFECTIONERY	
D03-E01	Transporting confectionery	1972
D03-E02	Coating confectionery and ice cream	1972
D03-E03	Shaping confectionery and ice cream	1972
D03-E04	Packing confectionery and ice cream	1972
D03-E05	Cooking and mixing ingredients for confectionery	1972
D03-E06	Dispenser for confectionery Including filling	1972
D03-E07	Chocolate and cocoa products	1972
D03-E08	Ice cream and similar frozen products	1972
D03-E09	Chewing gum	1994
	<i>Previous code(s): D03-E</i>	
D03-E10	Candy general	2002
D03-E10A	. Hard candy	2002
D03-E10A1	.. Chocolate	2002
D03-E10A2	.. Non-chocolate	2002
D03-E10B	. Chewy candy	2002
D03-E10B1	.. Chocolate	2002
D03-E10B2	.. Non-chocolate	2002
D03-E11	General	2002
D03-E	General and others	2002
D03-F	PROTEINS, PHOSPHATIDES	
D03-F01	Protein recovery - from other sources	1972
D03-F02	Protein recovery - from soya beans	1972
D03-F03	Protein recovery - from micro-organisms	1972

D03-F04	Protein recovery - from animal or fish waste	1972	D03-H01D	. Flavouring agents of special form	1972
D03-F05	Shaping of protein (threads and films)	1972	D03-H01E	. Food colourants (general)	1972
D03-F06	Protein compositions	1972	D03-H01E1	.. Natural food colorant	2007
D03-F07	Phosphatides	1972		<i>Previous code(s): D03-H01E</i>	
D03-F	General and others		D03-H01E2	.. Synthetic food colorant	2007
D03-G	ANIMAL FEEDS			<i>Previous code(s): D03-H01E</i>	
D03-G01	Fodder additives	1971	D03-H01F	. Carbonated non-alcoholic beverages	1972
D03-G02	From microorganisms e.g. yeasts	1972	D03-H01G	. Non-alcoholic beverages Except D03-H01F	1972
D03-G03	From animals e.g. offal, excrement	1972	D03-H01G1	.. Fruit Juices	2011
D03-G04	From plants e.g. beet residues	1972	D03-H01H	. Fluid foods e.g. sauces, soups, mayonnaise, emulsions except D03-H01F and D03-H01G	1972
D03-G05	From fish; insects e.g. stick water	1972	D03-H01J	. Gelled food products, thickeners From 2007, jam, marmalade and other conserve are coded under D03-H01V.	1972
D03-G06	Special shape animal feeds Including synthetic dog bones	1972	D03-H01K	. Foods with special shape Except D03-H01J	1972
D03-G	General and others		D03-H01L	. Dehydrated or concentrated foods Includes instant foods	1972
D03-H	FOODSTUFFS, GENERAL AND PRESERVATION		D03-H01M	. Partially cooked foods Except D03-H01L	1972
D03-H	Foodstuffs not provided for, general		D03-H01N	. Emulsifiers for food	1972
D03-H01	FOODSTUFF GENERAL		D03-H01P	. Antioxidants for food	1972
D03-H01	Foodstuffs; non-alcoholic beverages and preparations not provided for elsewhere, general		D03-H01Q	. Stabilisers for food, humectants Except D03-H01P,N,R.	1972
D03-H01A	. Sweetening agents Not additionally searchable under D03-H01T.	1972	D03-H01R	. Binders for food	1972
D03-H01B	. Chemical flavouring agents See also D03-H01D	1972	D03-H01S	. Coatings for food; Coated food products Except D03-H01R	1972
D03-H01B1	.. Taste masking	2002	D03-H01T	. Low calorie, health and dietary foods, general Except D03-H01A	1972
D03-H01B2	.. Taste enhancing	2002			
D03-H01C	. Natural flavouring agents e.g. natural extracts (see also D03-H01D)	1972			

D03-H01T1	.. Dietary fibre (bran/roughage etc.) <i>Previous code(s): D03-H01T</i> 1994	D03-H02B2A	... Drying with heating Add D03-H02C for heating by irradiation e.g. with microwave 2011
D03-H01T2	.. Other health <i>Previous code(s): D03-H01T</i> 1994	D03-H02B2B	... Drying without heating E.g. by evaporation at ambient temperature or sun drying 2011
D03-H01T2A	... Probiotics/prebiotics 2006	D03-H02C	. By irradiation 1986
D03-H01T2B	... Others, not pro/prebiotics or vitamin preparations 2006	D03-H02D	. By adding salt or acid (pickling) or sugar 1986
D03-H01T2C	... Vitamin preparations 2011	D03-H02E	. By other additives Except antioxidants see D03-H01P 1986
D03-H01T3	.. Low calorie <i>Previous code(s): D03-H01T</i> 1994	D03-H02F	. By sterile packaging 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
D03-H01T3A	... Low fat 2005	<hr/>	
D03-H01T3B	... Low carbohydrate 2005	D03-J	FOODSTUFF MACHINERY FOR
D03-H01T4	.. High calorie foodstuff; energy boosters e.g. energy bars 2005	D03-J01	Treating grain 1972
D03-H01T5	.. Special dietary requirement foods e.g. diabetic, gluten free. <i>Previous code(s): D03-H01T</i> 2006	D03-J02	Treating nuts Including peanuts and coffee beans 1972
D03-H01U	. Fried foodstuff 2005	D03-J03	Removing stones and pips from fruit 1972
D03-H01V	. Jam/marmalade/other conserve <i>Previous code(s): D03-H01J</i> 2007	D03-J04	Peeling fruit Including pumpkins, melons, marrows and zucchini (courgettes) 1972
D03-H02	PRESERVING FOODSTUFFS	D03-J05	Washing fruit Including pumpkins, melons, marrows and zucchini (courgettes) 1972
D03-H02	Preserving 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	D03-J06	Cutting or crushing fruit Including pumpkins, melons, marrows and zucchini (courgettes) 1972
D03-H02A	. By freezing, cooling or refrigeration 1986	D03-J07	Peeling vegetables Including peas, beans, mushrooms and cauliflowers 1972
D03-H02B	. By heat sterilisation or drying 1986	D03-J08	Washing vegetables Including peas, beans, mushrooms and cauliflowers 1972
D03-H02B1	.. By heat sterilisation E.g. pasteurisation. Add D03-H02C for heating by irradiation e.g. with microwave 2011		
D03-H02B2	.. By drying 2011		

D03-J09	Cutting or crushing vegetables Including "topping and tailing", coring and pulping; e.g. of peas, beans, mushrooms and cauliflowers	1972	D03-K11	Labelling system for foodstuff	2005
D03-J10	Preparation of animal feeds	1972	D03-K12	Defrosting foodstuff	2005
D03-J11	Popcorn making	2005	D03-K13	Green food technology Includes non-waste or environmentally friendly food technology	2011
D03-J	General and others Includes "topping and tailing", coring and pulping		D03-K14	Food cooling device Device or system for cooling the interior of a food processing machine; a food cooling system	2014
D03-K	SHAPING OR WORKING OF FOODSTUFFS		D03-K	General and others	
D03-K01	Cooking and baking general, ovens Includes roasting	1972	D03-L	RICE AND PRODUCTS	1994
D03-K01A	. Microwave	2013	D03-L	Rice and products Excluding D01-B02C <i>Previous code(s): D03-H01</i>	1994
D03-K01B	. Fryer	2013	D03-M	EGG AND PRODUCTS	1994
D03-K01C	. Grill	2013	D03-M	Egg and products <i>Previous code(s): D03-H01</i>	1994
D03-K02	Grading devices for food	1972	D03-N	VEGETABLE PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-K03	Testing and monitoring liquid food	1972	D03-P	FRUIT PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-K04	Testing and monitoring solid food	1972	D03-Q	NUT AND EDIBLE SEED PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-K05	Cutting devices for food	1972	D03-R	CEREAL PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-K06	Moulding of food e.g. extrusion	1972	D03-S	BABY FOOD ONLY Used in conjunction with other codes in section D	2007
D03-K07	Mixing or stirring food	1972			
D03-K08	Transporting, packing and storage devices for food e.g. containers	1972			
D03-K08A	. Green packaging Biodegradable packaging/plastics, recyclable packaging, arrangements allowing use of smaller amount of materials in packaging etc.	2011			
D03-K08B	. Food packaging materials Novel food packaging materials	2014			
D03-K09	Devices for concentrating or drying food	1972			
D03-K10	Dispenser for foodstuff	2005			

D04 TREATING WATER, WASTE WATER AND SEWAGE

D04-A	TREATMENT OF THE WATER see also D04-B: for impurities removed	
D04-A	Water treatment process general	
D04-A01	Purification general	
D04-A01A	. By distillation	1972
D04-A01B	. By precipitation, sedimentation, flocculation See D04-B09	1972
D04-A01C	. By freezing, crystallisation	1972
D04-A01D	. Membranes for reverse osmosis	1972
D04-A01E	. Apparatus for reverse osmosis, membrane filtration and ultra-filtration	1972
D04-A01F	. By other filtration processes, adsorption, active C	1972
D04-A01F1	.. Other filtration process	2005
D04-A01F2	.. Active C treatment	2005
D04-A01F3	.. Other adsorption processes	2005
D04-A01G	. By ion exchange	1972
D04-A01H	. Measuring purity of water	1972
D04-A01J	. Biological process e.g. sewage treatment. Not used when D04-B10: codes are applied	1986
D04-A01K	. By oxidation/aeration <i>Previous code(s): D04-B08</i>	1986
D04-A01K1	.. Oxidation with ozone	2005
D04-A01K2	.. Oxidation / aeration with other	2005
D04-A01L	. By flotation <i>Previous code(s): D04-B09</i>	1986
D04-A01M	. By electrochemical process	1986
D04-A01N	. By extraction	1986

D04-A01P	. By other method Including other chemical, decanting	1986
D04-A01P1	.. Chemical method Includes adding polymers	2005
D04-A01P2	.. Physical method	2005
D04-A01P2A	... By irradiation	2011
D04-A01Q	. Magnetic water treatment <i>Previous code(s): D04-A01P</i>	1994
D04-A02	Sterilisation of water	1972
D04-A03	Scale prevention, deoxygenation and anti-corrosion general	1972
D04-A03A	. Scale prevention	1986
D04-A03B	. Deoxygenation and degassification of water	1986
D04-A03C	. Anti-corrosion	1986
D04-A04	Physiological amelioration of potable water by specific additives	
D04-A05	Containment of waste to prevent contamination of water e.g. (i) preventing herbicides from reaching water, (ii) enclosing waste in another material	1994
D04-A06	Apparatus for recycling waste water	2007
D04-B	IMPURITY REMOVAL FROM WATER 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.	
D04-B	Impurity removal from water general	
D04-B01	Of sewage	1971-1976
D04-B02	Of aqueous industrial effluent, oil pollution	1972-1976
D04-B03	Removal of mineral oil, hydrocarbons, coal slurry	1977

D04-B04	Removal of natural products Including protein, starch, animal and vegetable fats and oils, natural animal, plant and fish material from power station inflow 1977	D04-B07E	. Removal of inorganic fluorine compound 1986
D04-B05	Removal of metals Including metal compounds, excluding alkali(ne earth) metal compounds. 1977	D04-B07F	. Desalination of brine or sea water 1986
D04-B05A	. Removal of heavy metals Used for where the patent vaguely mentions removal of heavy metals or removal of 2nd, 3rd row transition metals, Lanthanides or Actinides 2005	D04-B07G	. Demineralisation of water Minerals are removed from water 2012
D04-B05B	. Removal of other metals 2005	D04-B08	Oxidation/aeration of waste water From 198601 search D04-A01K 1977-1985
D04-B06	Removal of specified organic materials, general and other 1977	D04-B09	Sedimentation, addition of flocculants to waste water, flotation From 198601 search D04-A01B or D04-A01L 1977-1985
D04-B06A	. Removal of phenolic compounds 1986	D04-B10	Sewage sludge from water Separation, solidification of sludge, treatment of sludge general 1977
D04-B06B	. Removal of organic dyes, optical brighteners 1986	D04-B10A	. Dewatering sludge 1986
D04-B06C	. Removal of surfactants	D04-B10B	. Pyrolysis of sludge Excluding D04-B10A 1986
D04-B06D	. Removal of polymers and polymer monomers 1986	D04-B11	General sewage treatment From 198601 search D04-A: 1977-1985
D04-B06E	. Removing halohydrocarbons from water 1994 <i>Previous code(s): D04-B06</i>	D04-C	GAS IMPREGNATED WATER E.G. WITH CARBON DIOXIDE
D04-B07	Removal of specified inorganic and radioactive materials, general and other 1977	D04-C	General
D04-B07A	. Removal of inorganic cyanides or (thio)cyanates 1986	D04-D	ENVIRONMENTALLY-FRIENDLY WATER PROCESSING 2013
D04-B07B	. Removal of inorganic phosphorus compounds 1986		
D04-B07C	. Removal of inorganic nitrogen compounds Excluding urea and cyanides but including nitrates, ammonia and inorganic carbamates 1986		
D04-B07D	. Removal of inorganic sulphur compounds 1986		

D05 FERMENTATION INDUSTRY

D05-A	INDUSTRIAL FERMENTATION PROCESSES GENERAL	
D05-A	General	
D05-A01	Enzyme bound to carrier general	1977
D05-A01A	. Carrier general	1986
D05-A01A1	.. Polysaccharide	1986
D05-A01A2	.. Polymer Excluding natural polymers	1986
D05-A01A3	.. Non-polymeric organic compound e.g. hapten	1986
D05-A01A4	.. Natural material other than above e.g. antibody	1986
D05-A01A5	.. Inorganic material e.g. glass, metal, silica, clay, mineral	1986
D05-A01B	. Fixed enzyme general	1986
D05-A01B1	.. Oxidoreductase	1986
D05-A01B2	.. Transferase	1986
D05-A01B3	.. Hydrolase	1986
D05-A01B4	.. Lyase	1986
D05-A01B5	.. Isomerase	1986
D05-A01B6	.. Ligase (synthetase)	1986
D05-A01C	. Process general	1986
D05-A01C1	.. Apparatus using fixed enzyme	1986
D05-A01C2	.. General methods of binding enzymes to carriers 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.	1986

D05-A02	Other enzyme process (non-fixed) general	1977
D05-A02A	. Oxidoreductase	1986
D05-A02B	. Transferase	1986
D05-A02C	. Hydrolase	1986
D05-A02D	. Lyase	1986
D05-A02E	. Isomerase	1986
D05-A02F	. Ligase (synthetase)	1986
D05-A03	Fermentation apparatus general Excluding organic waste fermentation	1977
D05-A03A	. Carriers for Microorganisms, Microorganisms bound to carriers Includes both devices and methods specifically using immobilised microorganisms.	1986
D05-A03B	. Automated fermentation vessels Excluding sewage treatment	1986
D05-A03C	. Mixing devices for fermentation vessels, aeration of the medium 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.	1986
D05-A04	Other fermentation processes general	1977
D05-A04A	. Organic waste, town waste or sludge fermentation	1986
D05-A04B	. Culture media and their preparation for industrial fermentation, comminuting waste for fermentation Aeration and mixing devices for media during fermentation - see D05-A03C	1986

D05-A04C	<ul style="list-style-type: none"> Cultivation of mushrooms, shiitake, Basidiomycetes etc. Includes both apparatus and methods used in any aspect of mushroom cultivation. 	1986
D05-A04D	<ul style="list-style-type: none"> Fermented foods and fermented non-alcoholic drinks Includes both apparatus and methods used in any aspect of fermented foods and fermented nonalcoholic drinks <p><i>Previous code(s): D03-H01</i></p>	2007
D05-B	BREWING, ETHANOLIC FERMENTATION	
D05-B01	Malting grains and mash processing Includes both apparatus and methods used in malting grain and mash processing	1986, 2010
D05-B01A	<ul style="list-style-type: none"> Malting grains Malting involves soaking grains, allowing them to germinate and then drying. Includes barley steeping device for malt 	2010
D05-B01B	<ul style="list-style-type: none"> Mash processing Mash processing or preparation. Also includes devices used for mash preparation. 	2010
D05-B02	Brewing beer, fermentation to give beer-type drinks, low-calorie beer For low calorie beer also search D03-H01T	1986
D05-B03	Fermentation device/process to give ethanol as the main product	1986
D05-B03A	<ul style="list-style-type: none"> Fermentation device/process to give substituted ethanol as main product Includes all substituted ethanols e.g. fluorophenylethanol. 	2014
D05-B04	Fermentation yeast Includes yeast blocks, fermentation to give yeast as the main desired product, use of yeast in brewing, baking, or animal feeds	1986
D05-B	General and others	
D05-C	CHEMICALS BY FERMENTATION (BIOSYNTHESIS) 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.	
D05-C01	Amino acids Also includes substitutions such as 4-oxoproline.	1971
D05-C02	Antibiotics	1971
D05-C03	Enzymes	1971
D05-C03A	<ul style="list-style-type: none"> Coenzymes 	1986
D05-C03B	<ul style="list-style-type: none"> Oxidoreductases 	1986
D05-C03C	<ul style="list-style-type: none"> Hydrolases 	1986
D05-C03D	<ul style="list-style-type: none"> Transferases 	1986
D05-C03E	<ul style="list-style-type: none"> Lyases 	1986
D05-C03F	<ul style="list-style-type: none"> Isomerases 	1986
D05-C03G	<ul style="list-style-type: none"> Ligases (synthetases) 	1986
D05-C04	Steroids	1971
D05-C05	Nucleotides	1972
D05-C06	Nucleosides	1972
D05-C07	Nucleic acids	1972
D05-C08	Sugars Including polysaccharides, sugar amines and sugar acids. Also all syrups.	1972
D05-C09	Aliphatic acids Excepting any acids covered under higher codes. May be substituted but the acid functionality must be retained. Also includes fatty acids.	1972

D05-C10	Vitamins	1972	D05-C26	Alkaloids Alkaloids synthesised by means of fermentation or extracted or purified from plant source or by means of biosynthesis.	2022
D05-C11	Polypeptides	1986	D05-C	Others; general. Excluding ethanol	
D05-C12	Specific proteins, excluding enzymes	1986	D05-D	DISTILLATION AND RECTIFICATION OF FERMENTED SOLUTIONS, BY-PRODUCT RECOVERY, DENATURING OF ALCOHOL	
D05-C13	Biomass and non-specific proteins, yeast proteins (not yeast itself)	1986	D05-D	General	
D05-C14	Methane	1986	D05-E	WINE, ALCOHOLIC BEVERAGES Includes apparatus and methods for production.	
D05-C15	Unsubstituted alcohols excluding ethanol For aromatic, cyclic or aliphatic alcohols and may include diols and triols (e.g. ethylene glycol, propanetriol). Sugar alcohols code as D05-C17.	1986	D05-E	General	
D05-C16	Di- or tripeptides e.g. glutathione	2009	D05-F	PASTEURISATION, STERILISATION, PRESERVATION, CLARIFICATION, AGEING ALCOHOLIC BEVERAGES	
D05-C17	Sugar alcohols	2010	D05-F	General	
D05-C18	Pigments	2010	D05-G	VINEGAR Includes apparatus and methods for production.	
D05-C19	Lipids Includes all lipids including glycerolipids, phospholipids, sphingosine, cephalin, ceramide, oils and its derivatives.	2014	D05-G	General	
D05-C20	Hydrogen	2014	D05-H	MICROBIOLOGY, LABORATORY PROCEDURES	
D05-C21	Polymers Production of all polymers, excepting polypeptides and polysaccharides.	2015	D05-H01	Culture media	1972
D05-C22	Flavones or flavanoids	2016	D05-H02	Culture apparatus	1972
D05-C23	Other acids 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	D05-H03	Formation of microbial mutants	1972
D05-C24	Saponins	2021	D05-H03A	. By random method-chemically or by irradiation	1986
D05-C25	Terpenes	2021	D05-H03B	. By recombinant DNA technology 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
			D05-H04	Newly discovered, testing of, isolation of, identification of and detection of Bacteria May also be used in combination with D05-H18B code. Mutants code here but recombinant bacteria are searched under D05-H14A.	1972

D05-H05	Newly discovered, testing of, isolation of, identification of and detection of Fungi May also be used in combination with D05-H18B code. Mutants code here but recombinant fungi are searched under D05-H14A2. 1972	D05-H11A1	.. Monoclonal antibodies prepared by hybridoma techniques 1994 <i>Previous code(s): D05-H11</i>
D05-H06	Newly discovered, testing of, isolation of, identification of and detection of Viruses and Other 1972	D05-H11A2	.. Monoclonal antibodies prepared by recombinant DNA techniques 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. 1994 <i>Previous code(s): D05-H11</i>
D05-H06A	. Newly discovered, testing of, isolation of, identification of and detection of Viruses May also be used in combination with D05-H18B code. Mutants code here but recombinant viruses are searched under D05-H12F. 2002	D05-H11B	. Polyclonal Antibodies 1994
D05-H06B	. Newly discovered, testing of, isolation of, identification of and detection of prions 2002	D05-H11C	. Abzyme A catalytic antibody. 2005
D05-H07	Production of vaccines, antigens 1972	D05-H12	DNA, cDNA, transfer vectors, RNA 1986
D05-H08	Cell or tissue culture general or unspecified Search when the culture is not specified or when both of the sub-codes are applicable. 1972	D05-H12A	. Wild-type coding sequences 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. 1994 <i>Previous code(s): D05-H12</i>
D05-H08A	. Microorganism culture Includes microbes. 2016	D05-H12B	. Mutant sequences 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. 1994 <i>Previous code(s): D05-H12</i>
D05-H08B	. Animal/plant cells culture Plant and animal cells. 2016	D05-H12B1	.. Naturally occurring mutant sequences e.g. mutant allele, polymorphism. 1994 <i>Previous code(s): D05-H12</i>
D05-H09	Testing and detection other than D05-H04, D05-H05 and D05-H06 May be used in combination with D05-H18B. 1986		
D05-H10	Fixing biological substances or cells to a carrier and the carriers themselves Excludes microorganisms and enzymes. Microorganisms and enzymes bound to carriers are searched under D05-A codes. 1986		
D05-H11	Antibodies Restricted to Monoclonal Antibodies only prior to 1994. 1986		
D05-H11A	. Monoclonal antibodies <i>Previous code(s): D05-H11</i> 1994		

D05-H12B2	.. Engineered mutant sequences <i>Previous code(s): D05-H12</i>	1994	D05-H12D8A	... siRNA Double-stranded short RNA molecules which bind RNAs and target them for degradation and/or destruction	2005
D05-H12C	. Fusion genes, transgenes 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. <i>Previous code(s): D05-H12</i>	1994	D05-H12D8B	... miRNA Single-stranded RNA molecules which that are processed from larger stem-looped precursors by Dicer.	2005
D05-H12D	. DNA, cDNA, RNA non-coding sequences <i>Previous code(s): D05-H12</i>	1994	D05-H12D8C	... Small hairpin RNA	2006
D05-H12D1	.. Primers, probes <i>Previous code(s): D05-H12</i>	1994	D05-H12D9	.. PNA Peptide nucleic acids.	2005
D05-H12D2	.. Antisense sequences/constructs <i>Previous code(s): D05-H12</i>	1994	D05-H12D10	.. Aptamer Code retired. All instances in the backfile corrected to D05-H12D6A.	2006-2015
D05-H12D3	.. Triple-helix forming oligonucleotides <i>Previous code(s): D05-H12</i>	1994	D05-H12E	. Vectors Includes viral vectors (e.g. Baculovirus vectors, phagemids), plasmid vectors, cosmids and transposons. <i>Previous code(s): D05-H12</i>	1994
D05-H12D4	.. Ribozyme <i>Previous code(s): D05-H12</i>	1994	D05-H12F	. Recombinant viruses (excluding viral vectors) 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-H03B</i>	1994
D05-H12D5	.. Transcription/translation regulation sequences Includes new or modified enhancers, promoters and upstream activating sequences. <i>Previous code(s): D05-H12</i>	1994	D05-H12G	. Reporter/marker nucleic acid	2009
D05-H12D6	.. Other specified non-coding sequences	1994	D05-H13	Recovery of biological substances and materials, ultra-filtration	1986
D05-H12D6A	... Aptamer <i>Previous code(s): D05-H12</i>	2006	D05-H14	Recombinant cells Host cells (prokaryotic and eukaryotic) transformed by a recombinant DNA vector.	1994
D05-H12D7	.. DNAzyme Catalytic DNA sequence.	2005	D05-H14A	. Recombinant Microbial cells (unspecified) <i>Previous code(s): D05-H03B</i>	1994
D05-H12D8	.. Short interfering RNA / micro RNA general	2005	D05-H14A1	.. Recombinant Bacteria <i>Previous code(s): D05-H03B</i>	1994

D05-H14A2	.. Recombinant Fungi (including yeast)	1994
	<i>Previous code(s): D05-H03B</i>	
D05-H14A3	.. Other recombinant microorganisms (e.g. Protozoa)	1994
	<i>Previous code(s): D05-H03B</i>	
D05-H14B	. Recombinant cell lines (unspecified)	1994
D05-H14B1	.. Recombinant insect cells	1994
D05-H14B2	.. Recombinant mammalian cells Excludes antibody-producing cells and hybridomas. Such cells are searched under D05-H15.	1994
D05-H14B3	.. Recombinant plant cells	1994
D05-H14B4	.. Other specified recombinant cell lines	1994
D05-H15	Antibody-producing cells, hybridomas	1994-2014
D05-H15A	. Antibody producing cells/hybridoma A cell line for producing monoclonal antibodies; produced by fusing antibody-secreting B cells with lymphocyte tumor cells.	2005
D05-H15B	. Other chimeric/fused cells Cell lines comprising or formed from components derived from 2 separate cell types, and excluding antibody producing hybridomas.	2005
D05-H16	Transgenic organisms	1994
D05-H16A	. Transgenic animal	1994
D05-H16B	. Transgenic plant Includes plants cultured from cells which are manipulated by genetic engineering techniques.	1994
D05-H16C	. Transomatic animal An animal which has gene(s) from another cell or organism stably incorporated into some but not all cells.	2005
D05-H16D	. Transomatic plant	2005

D05-H17	Recombinant protein/polypeptide production 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.	1994
D05-H17A	. Wild type protein/polypeptide production Includes production of wild-type proteins with more than one subunit except where these are expressed as a fusion protein.	1994
D05-H17A1	.. Production of engineered wild-type antibodies	1994
D05-H17A2	.. Production of wild-type cytokine, lymphokine, growth factor, hormone	1994
D05-H17A3	.. Production of wild-type enzyme	1994
D05-H17A4	.. Production of wild-type receptor	1994
D05-H17A5	.. Production of wild-type antigen	1994
D05-H17A6	.. Production of other specified wild-type protein	1994
D05-H17A7	.. Production of wild-type zinc finger protein 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.	2005
D05-H17B	. Mutant protein/polypeptide production 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.	1994

D05-H17B1	.. Production of engineered mutant antibodies 1994	D05-H18B1	.. Thermocycling nucleic acid amplification method Includes PCR and LCR. 2022
D05-H17B2	.. Production of mutant cytokine, lymphokine, growth factor, peptide hormone 1994	D05-H18B2	.. Isothermal and other nucleic acid amplification method 2022
D05-H17B3	.. Production of mutant enzyme 1994	D05-H19	Biological materials for use in genetic engineering (general) 1994
D05-H17B4	.. Production of mutant receptor 1994	D05-H19A	. Newly discovered restriction endonucleases and methylases 1994
D05-H17B5	.. Production of mutant antigen 1994	D05-H19B	. New or modified DNA polymerases, RNA polymerases Includes reverse transcriptase. 1994
D05-H17B6	.. Production of other specified mutant protein 1994	D05-H19C	. CRISPR system 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. 2015
D05-H17B7	.. Production of mutant zinc finger protein 2005	D05-H20	Electroporation Includes both apparatus and methods used for electroporation. 2007
D05-H17C	. Fusion protein/polypeptide production 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. 1994	D05-H99	Patent with Geneseq record For patents in D16 with associated Geneseq record. 2017
D05-H17C1	.. Production of fusion protein comprising an antibody or antibody fragments 1994	D05-H	General and others
D05-H18	Genetic engineering techniques, new methods Includes transfection techniques 1994	D05-J	BREWING DEVICES Including pitching, machines, and cellular tools
D05-H18A	. Nucleic acid sequencing method 1994	D05-J	General
D05-H18B	. Nucleic acid amplification, general or unspecified 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. 1994	D05-K	BIOLEACHING 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. 2019
		D05-K	General 2019

D06 SUGAR AND STARCH INDUSTRY

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

**D07 SKINS, HIDES, PELTS, LEATHER,
TOBACCO**

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

D08 COSMETICS, DENTAL, TOILET PREPARATIONS

D08-A	DENTAL PREPARATIONS (GENERAL AND OTHERS)	
D08-A01	Fillings	1986
D08-A02	Adhesives and cements	1986
D08-A03	Artificial teeth, dentures, crowns, fixing devices for dentures, moulding devices Excluding cements and adhesives	1986
D08-A04	Dental instruments, saliva pumps, syringes	1986
D08-A04A	. Dental cleaning device	2011
D08-A05	Anticaries compositions	1986
D08-A06	Dental plaster and dental impression devices	1986
D08-B	COSMETIC PREPARATIONS (GENERAL AND OTHERS)	
D08-B01	Make-up (and removing); luminescent pastes	
D08-B01A	. Eye make-up e.g. eye shadow, eyeliner, mascara etc	2005
D08-B01B	. Lip products e.g. lipsticks, lip gloss, lip liners etc	2005
D08-B01C	. Make-up e.g. foundations and blushers	2005
D08-B01D	. Others	2005
D08-B01D1	.. Skin whitening agent <i>Previous code(s): D08-B01D</i>	2007
D08-B02	Nail care general Only use this code if the description given in the patent is too vague to apply any of the more specific ones given below	
D08-B02A	. Nail polishes Include thickeners, hardeners and bonding agents used in nail polish	2011
D08-B02B	. Nail polish removers	2011

D08-B02C	. Artificial nails Include extended and fashion nails such as acrylic nails, sculptured nails and gelled nails	2011
D08-B03	Care of hair (or promoting growth)	
D08-B03A	. Products for promoting growth	2005
D08-B03B	. Hair conditioner 2 in 1 shampoo and conditioners code here and also in D08-B04	2005
D08-B03C	. Others	2005
D08-B04	Rinsing the hair, shampoo	
D08-B05	Waving, straightening, fixing hair	
D08-B06	Dyeing, bleaching hair	
D08-B07	Depilatories, soapless shaving preparations	
D08-B08	Cleaning the teeth or mouth general	
D08-B08A	. Toothpaste	2002
D08-B08B	. Mouthwash Tooth cleaning composition in the form of a solution or emulsion designed to be used as a mouth wash	2002
D08-B08C	. Gels	2005
D08-B08D	. Strips	2005
D08-B08E	. Floss Includes dental tape	2005
D08-B09	Care of the skin, anti-perspirants, astringents general	1971
D08-B09A	. Skin care general	1986
D08-B09A1	.. Skin care	2002
D08-B09A1A	... Liquid skin care formulation <i>Previous code(s): D09-B09A1</i>	2007
D08-B09A1B	... Solid skin care formulation <i>Previous code(s): D09-B09A1</i>	2007
D08-B09A2	.. Personal face and body wash	2002
D08-B09A2A	... Liquid personal face and body wash <i>Previous code(s): D09-B09A2</i>	2007

D08-B09A2B	... Solid personal face and body wash 2007 <i>Previous code(s): D09-B09A2</i>
D08-B09A3	.. Anti-ageing preparations 2002
D08-B09B	. Antiperspirant deodorants From 2005, this code has been expanded to cover both antiperspirants and deodorants. 1986
D08-B09B1	.. Deodorants only 2005
D08-B09B2	.. Antiperspirant only 2005
D08-B10	Carriers or bases for cosmetics 1986
D08-B11	Antioxidants and stabilisers 1986
D08-B12	Perfume for cosmetics D10-A05 may also be searched 1986
D08-B13	Surfactants for cosmetics, excluding hair washing compositions, soap and mouth and dental preparations 1986
D08-B14	Whitening teeth only For whitening chewing gum use this code and D03-E09 2005
D08-B14A	. Toothpaste Includes tooth powder 2005
D08-B14B	. Mouthwash 2005
D08-B14C	. Gels 2005
D08-B14D	. Strips 2005
D08-B15	Cellulite treatment 2005
D08-B	General and others
D08-C	Animal use Used for novelties where a code from D08-A and/or D08-B applies but solely for use with animals 2005

D09 STERILISING AND DISINFECTING, BANDAGES AND DRESSINGS

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

D09-B01	Deodorising/sterilising devices general Apply codes from this section only if the device is claimed. May be used in conjunction with other D09-B codes if necessary. 2005	D09-C01D	. Artificial joints and limbs, artificial bone, tendons 1986
D09-B01A	. Using heating elements e.g. vaporisers, evaporators and plug-ins 2005	D09-C01E	. Tissue engineering scaffold Includes all processes and chemicals used in the production of the scaffolds. 2007 <i>Previous code(s): D09-C</i>
D09-B01B	. Using sprayers/atomisers e.g. aerosols, pumps and misting devices 2005	D09-C01F	. Catheters, stents, implants 2010
D09-B01C	. Passive means Spreading a substance by convection or sachets 2005	D09-C02	Catamenial devices with special shape Including production 1972
D09-B02	Candles used in disinfection / deodorisation of air 2005	D09-C02A	. Tampons 2005
D09-B03	Creation of aseptic environment Used for processes and apparatus designed to create a sterile atmosphere within a room, especially an operating theatre or food preparation plant. 2005	D09-C02B	. Other sanitary products E.g. sanitary napkins 2005
D09-B04	Perfuming of air (masking) 2005	D09-C03	Baby nappy Disposable diaper. 1972
D09-B05	Neutralising odour causing substances e.g. cat litter 2005	D09-C04	Others with special shape Including production general 1972
D09-B06	Killing/controlling insects (in a room) 2005	D09-C04A	. Cataplasms, poultices (for applying heat to a body part) 1986
D09-B07	By irradiation 2011	D09-C04B	. Adhesive plasters, bandages, wound dressings 1986
D09-C	BANDAGES, DRESSINGS	D09-C04C	. Splints (external) For internal see D09-C01 1986
D09-C01	Prostheses, Implants 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	D09-C04D	. Surgical gowns, protective clothing 1986
D09-C01A	. Lenses 1986	D09-C04E	. Adult incontinence pads 2005
D09-C01B	. Blood vessels 1986	D09-C05	Water repellent materials for use as above 1972
D09-C01C	. Organs, heart, heart valves, pancreas 1986	D09-C06	Water absorbent materials for use as above 1972
		D09-C	General and others
		D09-D	SURGICAL SUTURE MATERIALS
		D09-D	General

D09-E	CHEMICAL PROTECTION OF SKIN	
D09-E	General 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, barrier creams)	
D09-E01	Sunscreen	2002
D09-E02	Insect repellents	2002
D09-E03	Barrier creams Applied to skin to create physical barrier between skin and substances which may cause skin irritation, e.g. caustic chemicals.	2002

D10 ANIMAL AND VEGETABLE OILS

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

D11 DETERGENTS, SOAP, GLYCEROL

D11-A	SURFACE ACTIVE NON-SOAP DETERGENTS	
D11-A01	Anionic compounds	
D11-A01A	. Carboxylic acids, salts and substituted derivatives Except soap	1972
D11-A01A1	.. Contains free carboxylic acid group(s)	1986
D11-A01A2	.. Contains carboxylic acid ester group(s), but no free carboxylic acid groups	1986
D11-A01A3	.. Contains carboxylic amide group(s) but no carboxylic acid or ester group	1986
D11-A01B	. Sulphonic acids and esters	1972
D11-A01B1	.. Aryl sulphonic acid Sulphonic acid group linked via the sulphur atom to the aromatic ring	1986
D11-A01B2	.. Aliphatic sulphonic acid Sulphonic acid group linked via the sulphur atom to the aliphatic chain	1986
D11-A01C	. Lignin sulphonates and derivatives	1972
D11-A01D	. Protein hydrolysates, fatty acid condensates thereof	1972
D11-A01E	. Derivatives of acids of P	1972
D11-A01F	. Sulphate esters	1972
D11-A01F1	.. Unsubstituted alkyl sulphates	1986
D11-A01F2	.. (Poly)ethoxylated sulphates with one or more ethyleneoxy groups	1986
D11-A02	Cationic compounds	
D11-A02A	. Heterocyclic quaternary ammonium with N ⁺ in ring	1986
D11-A02B	. Quaternary ammonium not in heterocyclic ring	1986

D11-A02B1	.. Containing amide group	1986
D11-A02B2	.. Containing ether or OH groups Excluding D11-A02B1	1986
D11-A03	Non-ionic compounds	
D11-A03A	. Polyalkylene oxides	1986
D11-A03A1	.. Polyalkylene glycol ethers with higher alcohols and cycloalkanols	1986
D11-A03A2	.. Polyalkylene glycol ethers with phenols	1986
D11-A03A3	.. Polyalkylene glycol ethers with polyols e.g. glycerol, sorbitan	1986
D11-A03A4	.. Polyalkylene glycol esters with higher carboxylic acids	1986
D11-A03A5	.. Polyalkylene glycol ethers with substituted alkanols e.g. long chain amides of monoethanolamine	1986
D11-A03B	. Glycosides (as surfactants) <i>Previous code(s): D11-A03</i>	1994
D11-A04	Ampholytes, electroneutral compounds	
D11-A04A	. Containing quaternary ammonium group(s) and sulphonate group(s)	1986
D11-A04B	. Containing quaternary ammonium group(s) and carboxy group(s) but no sulphonate group(s)	1986
D11-A04C	. Amine oxide type compounds	2005
D11-A05	Anionic and anionic mixtures From 197701 also search D11-A01: to D11-A04:	1972
D11-A06	Anionic and cationic mixtures From 197701 also search D11-A01: to D11-A04:	1972
D11-A07	Anionic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04:	1972

D11-A08	Cationic and cationic mixtures From 197701 also search D11-A01: to D11-A04: 1972	D11-B01E	. Bleach boosters Compounds added to bleach compositions which are not themselves bleaches but which do increase bleaching power of the composition 2005
D11-A09	Cationic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04: 1972	D11-B02	Enzyme additives The detergent composition comprises enzymes, e.g. proteases 1972
D11-A10	Non-ionic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04: 1972	D11-B03	Builders 1972
D11-A11	Anionic, cationic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04: 1972	D11-B04	Anticaking agents and soil suspending agents 1972
D11-A12	Ampholytes and anionic and/or cationic and/or non-ionic detergent mixtures From 197701 also search D11-A01: to D11-A04: 1972	D11-B05	Antitarnishing agents 1972
D11-A	Detergents and their mixtures - general	D11-B06	Sequestering agents 1972
D11-B	NON SURFACE ACTIVE DETERGENT ADDITIVES This code is only applied if five or more of the D11-B sub-codes would be applicable.	D11-B07	Foam promoters 1972
D11-B01	Bleaching agents; optical brighteners 1971	D11-B08	Foam inhibitors 1972
D11-B01A	. Organic bleaches e.g. peroxy-carboxylic acids	D11-B09	Abrasives 1972
D11-B01B	. Inorganic bleaches e.g. hydrogen peroxide, hypochlorite	D11-B10	Carbohydrates, starch and cellulose derivatives 1972
D11-B01C	. Optical brighteners, anti-greying agents, blueing agents	D11-B11	Silicates, carbonates, alkali, silicones, siloxanes 1972
D11-B01D	. Bleach activators and catalysts 1994 <i>Previous code(s): D11-B01</i>	D11-B11A	. Inorganic silicates Including clays and zeolites 2005
D11-B01D1	.. Bleach activators Includes acyloxybenzene sulfonates, acyloxybenzoic acid, N-acyl lactams and tetraacetylethylenediamine 2005	D11-B11B	. Organic silicon compounds general 2005
D11-B01D2	.. Bleach catalysts Includes various transition metal complexes and free radical generators such as azobisisobutyronitrile 2005	D11-B11B1	.. Reactive silicon compounds Includes silazanes 2005
D11-B01D3	.. Enzymatic bleaches Bleach compositions that use an enzyme as the active ingredient 2005	D11-B11B2	.. Inert silicon compound Includes silicones and siloxanes unless they have pendant reactive groups 2005
		D11-B11C	. Inorganic Carbonates
		D11-B11D	. Alkalis 2005
		D11-B12	Stabilisers (various) 1972
		D11-B13	Acids 1972
		D11-B14	Antimicrobial agents 1972

D11-B15	Fabric softeners and conditioners Do not also search D11-D07		D11-D	SPECIAL METHODS OR DETERGENT MATERIALS	
		1972	D11-D01	Detergent compositions with special uses	1971
D11-B15A	. Concentrated form		D11-D01A	. Dishwashing, bottle and utensil washing Including china, glass and plastic.	1986
D11-B15B	. Other liquid fabric softeners and conditioners Do not also search D11-D07		D11-D01B	. Heavy duty hard surface cleaner e.g. paintwork, plastic surfaces, baths (excluding plastic baths), walls, tiles, stone, machinery, surgical instruments, cars, aircraft, boilers, ships, and metal articles.	1986
D11-B15C	. Other special forms of softeners and conditioners		D11-D01B1	.. Oven cleaners	2005
D11-B16	Solubilisers (solvents, hydrotopes)	1977	D11-D01B2	.. Flux removers	2005
D11-B17	Organic non-polymeric sulphur containing compound		D11-D01B3	.. Other abrasive type household surface cleaners	2005
D11-B18	Organic non-polymeric phosphorus containing compounds		D11-D01B4	.. Other bleach based household surface cleaners	2005
D11-B19	Organic polymers Excluding polysaccharides (D11-B10) and polysiloxanes (D11-B11).		D11-D01B5	.. Other household surface cleaners	2005
D11-B20	Inorganic nitrogen containing compound		D11-D01B6	.. Other industrial hard surface cleaners	2005
D11-B21	Inorganic phosphorus containing compound		D11-D01C	. Glass or window cleaner, (contact) lens cleaners	1986
D11-B22	Other inorganic additives Excluding D11-B11.		D11-D01D	. Lavatory cleaner Includes toilet cleaner	1986
D11-B23	Perfume or odourant for detergents		D11-D01E	. Drain or sink cleaner For unblocking sewer pipes or helping to prevent the occurrence of clogged drains	1986
D11-B24	Thickeners 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	D11-D01F	. Detergents effective at low temperatures	1986
D11-B	General and others		D11-D01G	. Detergents effective at high temperatures	1986
D11-C	SOAP DETERGENT COMPOSITIONS		D11-D01H	. Laundry compositions	2005
D11-C01	Use general		D11-D01J	. Personal care compositions	2005
D11-C01A	. Soap bars		D11-D02	Detergent compositions with special shape or colour	1971
D11-C01B	. Soap powders				
D11-C01C	. Liquid soaps				
D11-C02	Soap compositions without special shape and without non-soap detergents				
D11-C03	Soap with non-soap detergents				
D11-C	Soap detergent compositions				

D11-D02A	. Tablet or other moulded article	2005	D11-D08	Granular laundry detergent compositions	
D11-D02B	. Capsule			Use when the actual composition rather than its means of manufacture are claimed	
	Includes microcapsules	2005			2005
D11-D02C	. Sprays	2005	D11-D	General and others	
D11-D02D	. Other	2005	D11-E	SOAP-MAKING, GLYCEROL	
D11-D03	Powders, flakes and granules production	1972	D11-E01	Resin soaps from naphthenic acids	
D11-D04	Pastes, gels and scouring composition production	1972	D11-E02	Glycerol recovery from saponification liquor	
				For refining see E10-E04+.	
D11-D05	Sulphonation processes for preparing detergents	1971	D11-F	DETERGENTS WITHOUT TENSIDES	
D11-D06	Biodegradable detergents	1972	D11-F	General	
D11-D07	Liquid detergent compositions	1977			
D11-D07A	. Heavy duty laundry detergents				
	For use in automatic washing machines	2005			
D11-D07B	. Light duty liquid laundry detergents				
	For use in hand washing of clothes	2005			
D11-D07C	. Liquid laundry detergents with special use	2005			
D11-D07C1	.. Colour care	2005			
D11-D07C2	.. Combined detergent / fabric softener	2005			
D11-D07C3	.. Liquid laundry detergents with bleach (stain removers)	2005			
D11-D07D	. Liquid dishwashing detergents	2005			
D11-D07E	. Automatic dishwashing rinse aids	2005			
D11-D07F	. Liquid soap type (hand washing compositions)	2005			
D11-D07G	. Others	2005			

**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), CO₂, COS, CS₂, COX₂, CSX₂ (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 hetero fullerene are **not applied** - they receive code E05-U01 only. e.g. Hf in C60 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 STERIOD

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

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

E02 ANTIBIOTIC

Antibiotic with unknown structure.

E02	GENERAL
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E03 VITAMIN

Vitamin with unknown structure.

E03	GENERAL
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E04 OTHER NATURAL MATERIALS

E04-A	ALKALOID, PLANT EXTRACT Alkaloid, plant extract with unknown structure.
E04-B	ANIMAL EXTRACT, MICROBIOLOGICAL Animal extract, microbiological with unknown structure.
E04-C	SUGAR OF UNKNOWN CONSTITUTION; OTHER NATURAL PRODUCT 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

- 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.
- 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 hetero atom(s) of greater priority than carbon, relevant codes corresponding to that atom had been applied.

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

E05-B	ALKALI EARTH METAL, ALUMINIUM (AL)
E05-B	General
E05-B01	Beryllium (Be), magnesium (Mg), calcium (Ca), strontium (Sr), barium (Ba) 1975
E05-B02	Compound having aluminium-C (Al-C) bond 1975
E05-B03	Other aluminium (Al) compound 1975
E05-C	BORON
E05-C	General
E05-C01	Boron in a ring 1994 <i>Previous code(s): E05-C</i>
E05-C02	Other boron (B) compound 1994 <i>Previous code(s): E05-C</i>
E05-D	PERIODIC GROUP IIIB Excluding B, Al.
E05-D	Gallium (Ga), indium (In), thallium (Tl) - general
E05-E	SILICON In order of priority: E05-E01 > E05-E02 > E05-E03.
E05-E	General
E05-E01	Heterocyclic or aromatic with Si-C bond
E05-E01A	. Si as part of a ring 2005
E05-E01B	. Heterocyclic compound with Si-C bond 2005
E05-E01C	. Aromatic compound with Si-C bond 2005
E05-E02	(Cyclo)aliphatic with Si-C bond - general 1975
E05-E02A	. 4 Si-C bonds to one Si 1986
E05-E02B	. 3 Si-C bonds to one Si 1986
E05-E02C	. 2 Si-C bonds to one Si 1986
E05-E02D	. 1 Si-C bond to one Si 1986
E05-E03	Other organo-silicon compound

E05-E03A	. O-Si bonds only Compound containing O-Si bonds only. Used for tetrahydrocarbyloxysilanes and hydrocarbylsilicates 2005
E05-E03B	. Other Silicon compounds 2005
E05-F	PERIODIC GROUP IVB Excluding C, Si.
E05-F	Germanium (Ge), tin (Sn), lead (Pb) - general
E05-F01	Compound with tin-C (Sn-C) bond 1975
E05-F02	Other compound of germanium (Ge), tin (Sn), lead (Pb)
E05-F02A	. Germanium (Ge) compound Organo-Germanium compound 2005
E05-F02B	. Other tin (Sn) compound Organo-Tin compound not containing Sn-C bond(s) 2005
E05-F02C	. Lead (Pb) compound Organo Lead compound 2005
E05-G	PHOSPHORUS In order of priority: E05-G01 > E05-G02...
E05-G	General
E05-G01	P-C bond, heterocyclic compound
E05-G02	P-C bond, aromatic compound
E05-G03	P-C bond, aliphatic or alicyclic compound - general
E05-G03A	. phosphonium; or with P-C multiple bond, P-hal or P-N 1975
E05-G03B	. with 3-valent P (and addition complexes) 1975
E05-G03C	. with 5-valent P and >1 P-C bonds 1975
E05-G03D	. with 5-valent P and 1 P-C bond 1975
E05-G04	P-N bond, heterocyclic compound
E05-G05	P-N bond, aromatic compound
E05-G06	P-N bond, aliphatic or alicyclic compound
E05-G07	P-O or P-S bond, heterocyclic compound

E05-G08	P-O or P-S bond, aromatic compound	
E05-G09	P-O or P-S bond, aliphatic or alicyclic compound - general	
E05-G09A	. with P-hal, P-S or >1 P	1975
E05-G09B	. with 3-valent P or tautomeric 3-5 valent P	1975
E05-G09C	. mono, di or tri-unsubstituted alkyl orthophosphate (or salt)	1975
E05-G09D	. other 5-valent P compound	1975
E05-H	ARSENIC	
E05-H	General	
E05-J	ANTIMONY, BISMUTH	
E05-J	General	
E05-K	SELENIUM (SE), TELLURIUM (TE), NOBLE GAS, HALOGEN IN RING Excluding At, Rn, E05-Q.	
E05-K	General	
E05-L	1ST TRANSITION SERIES	
E05-L	General	
E05-L01	Titanium (Ti) compound	
E05-L02	Iron (Fe), cobalt (Co), nickel (Ni) compound - general	
E05-L02A	. Iron (Fe) compound	1986
E05-L02B	. Cobalt (Co) compound	1986
E05-L02C	. Nickel (Ni) compound	1986
E05-L03	Scandium (Sc), vanadium (V), chromium (Cr), manganese (Mn), copper (Cu), zinc (Zn) compound - general	
E05-L03A	. Scandium (Sc), vanadium (V), chromium (Cr), manganese (Mn) compound	1975
E05-L03B	. Copper (Cu) compound	1975
E05-L03C	. Zinc (Zn) carboxylate	1975
E05-L03D	. Other zinc (Zn) compound	1975

E05-M	2ND TRANSITION SERIES	
E05-M	Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Cd - general	
E05-M01	Zirconium (Zr) compound	2005
E05-M02	Ruthenium (Ru), rhodium (Rh), palladium (Pd) compound - general	2005
E05-M02A	. Ruthenium (Ru) compound	2005
E05-M02B	. Rhodium (Rh) compound	2005
E05-M02C	. Palladium (Pd) compound	2005
E05-M03	Y, Nb, Mo, Tc, Ag, Cd - general	2005
E05-M03A	. Niobium (Nb), technetium (Tc), cadmium (Cd) compound	2005
E05-M03B	. Silver (Ag) compound	2005
E05-M03C	. Molybdenum (Mo) compound	2005
E05-M03D	. Yttrium (Y) compound	2005
E05-N	3RD TRANSITION SERIES	
E05-N	Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg - general	
E05-N01	Hafnium (Hf) compound	2005
E05-N02	Os, Ir, Pt - general	
E05-N02A	. Osmium (Os) compound	2005
E05-N02B	. Iridium (Ir) compound	2005
E05-N02C	. Platinum (Pt) compound	2005
E05-N03	Tantalum (Ta), tungsten (W), rhenium (Re), gold (Au), mercury (Hg) general	2005
E05-N03A	. Tantalum (Ta), tungsten (W), rhenium (Re) compound	2005
E05-N03B	. Gold (Au) compound	2005
E05-N03C	. Mercury (Hg) compound	2005
E05-P	LANTHANOIDS (LA-LU)	
E05-P	General	

E05-Q	PO, AT, RN, FR, RA, ACTINOIDS	
E05-Q	General	
E05-R	RADIOACTIVE ELEMENT OTHER THAN E05-Q, SPECIFIC ISOTOPE	
E05-R	General	
E05-S	INORGANIC LIGAND CONTAINING ONLY H, C, N, O, S OR HALOGEN	
E05-S	General	
E05-T	INORGANIC LIGAND (ION OR COMPLEXING AGENT) OTHER THAN E05-S	
E05-T	General	
E05-U	FULLERENE TYPE CAGE STRUCTURES Prior to 199401 fullerene structures had been coded in section (E3). Further notes are included under the section E05 heading. Hetero fullerenes receive code E05-U01 only; the heteroatom(s) present are not described by additional section E05 codes. e.g. Uranium in C82. Code E05-Q should not be added to describe the endohedral uranium atom; only code E05-U01 is required.	1994
E05-U	General	1994
E05-U01	Other than carbon only Where hetero atom(s) may be endohedral (inside cage), or may form part of the cage resulting in a hetero cage structure, or may be bound to the outside of the cage, e.g. C60 H6, C70 F34.	1994
E05-U02	Carbon only e.g. Buckminsterfullerene.	1994
E05-U03	Carbon nanotubes (general) A general code, applied when the nature of nanotube is not specified or if all 3 codes below are relevant.	2010
E05-U03A	. Single walled Single walled carbon nanotube.	2010
E05-U03B	. Double walled Double walled carbon nanotube.	2010
E05-U03C	. Multiple walled (> 2) Multiple walled (> 2) carbon nanotube.	2010
E05-U04	Heteroatom containing nanotubes	2005
E05-U05	Other Carbon nano 3-D structures (general) 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
E05-U05A	. Nanoparticles, nanopowder Carbon nanoparticles or nanopowder.	2010
E05-U05B	. Nanorods, nanowhiskers Carbon nanorods, nanowhiskers or nanofibers.	2010
E05-U05C	. Nanofilm Carbon nanofilm including graphene.	2010
E05-U05D	. Other nanoforms (e.g. nanobuds, nanohorns or nanodiamonds) Other nanocarbon e.g. nanobuds or nanohorns.	2010
E05-U05E	. Quantum dots Nano graphene quantum dots.	2010
E05-U06	Other heteroatom-containing nano 3-D structures (general) Applied when a heteroatom is present in any three-dimensional structure(s) other than those covered above.	2010
E05-U07	Nanostructures of other organic compounds Nanostructures of organic compounds other than compounds coded in E05-U above.	2010
E05-V	METALLOCENES	2005
E05-V	General metallocene Also apply all other E05 codes	2005
E05-V01	Unbridged metallocene with 2-4 pi-arene ligands	2005
E05-V02	Bridged carbocyclic metallocenes	2005

E05-V03	Carbocyclic metallocene with only 1 pi-arene ligand	2005
E05-V04	Metallocene with heteroatom-containing rings	2005
E05-V05	Condensed carbocyclic metallocenes	2005
E05-W	GENERAL ORGANOMETALLIC COMPLEX	2010
E05-W	Organometallic complex (general) 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
E05-Y	METAL-ORGANIC FRAMEWORK 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.

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

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

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

2021

E07 HETEROCYCLIC, MONONUCLEAR

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

Note

- For systems containing ring elements other than C, O, S and N see E05.
- 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.
- 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.

E07-A	SOLE HETERO(S) OXYGEN	
E07-A	Oxygen-containing monoheterocyclic - general	2005
E07-A01	Furan excluding tetrahydrofuran	
E07-A02	Tetrahydro-(furan or pyran) - general	
E07-A02A	. Tetrahydrofuran and tetrahydropyran	1986
E07-A02B	. Tetrahydrofuran with =O & -O-substituents	1986
E07-A02C	. Tetrahydrofuran with =O, no -O-substituents	1986
E07-A02D	. Tetrahydrofuran with no =O, with -O-substituents	1986
E07-A02E	. Tetrahydrofuran with no =O, no -O-substituents	1986
E07-A02F	. Tetrahydropyran with =O & -O-substituents	1986
E07-A02G	. Tetrahydropyran with =O, no -O-substituents	1986
E07-A02H	. Tetrahydropyran with no =O, with -O-substituents	1986
E07-A02J	. Tetrahydropyran with no =O, no -O-substituents	1986
E07-A03	Other ring with one O – general	
E07-A03A	. Oxiran from (halo)hydrocarbon	1975

E07-A03B	. Other oxiran	1975
E07-A03C	. Others with one O e.g. (Dihydro-)pyran.	1975
E07-A04	Ring with more than one O	
E07-B	SOLE HETERO(S) SULPHUR	
E07-B01	Thiophene	
E07-B02	Others with one S	
E07-B03	Others with more than one S	
E07-C	SOLE HETEROS O AND S	
E07-C	General	
E07-D	SOLE HETERO(S) NITROGEN	
E07-D	General	1994
E07-D01	With one N, < 5 membered	
E07-D02	Pyrrole, excluding pyrrolidine	
E07-D03	Pyrrolidine	
E07-D04	Pyridine, excluding piperidine - general	
E07-D04A	. (Hydro)pyridinium, N(V) N(V) e.g. for N-oxide	1986
E07-D04B	. Pyridine production	1986
E07-D04C	. Pyridine use	1986
E07-D04D	. Di-, tetra-hydropyridine	1986
E07-D05	Piperidine	
E07-D06	With one N, > 6 membered	
E07-D07	With > one N, < 5 membered	
E07-D08	Pyrazole	
E07-D09	Imidazole - general	
E07-D09A	. (Hydro)imidazolium, N(V) N(V) e.g. for N-oxide	1986
E07-D09B	. Imidazole	1986
E07-D09C	. Dihydroimidazole	1986
E07-D09D	. Tetrahydroimidazole	1986
E07-D10	Pyr(id)azine, excluding piperazine	
E07-D11	Piperazine	
E07-D12	Pyrimidine	

E07-D13	Others with more than one N - general	
E07-D13A	. Production of 1,3,5-triazines	1975
E07-D13B	. Use of 1,3,5-triazines	1975
E07-D13C	. General, excluding 1,3,5-triazines	1975
E07-E	SOLE HETEROS O AND N	
E07-E01	With one O and one N, < 6 membered	
E07-E02	Oxazines, excluding morpholine	
E07-E03	Morpholine	
E07-E04	Others	
E07-F	SOLE HETEROS S AND N	
E07-F01	With one S and one N, < 6 membered	
E07-F02	Thiazines	
E07-F03	Others	
E07-G	SOLE HETEROS O AND S AND N	
E07-G	General	
E07-H	MONONUCLEAR HETEROCYCLIC - GENERAL	
	These codes are used for general disclosures when no specific hetero-ring system is present or when many are present.	
E07-H	General	
E07-H01	Production when ring linked directly to -C(=O)-, -C(=S)-, -C(=N)-, CN or heteroatom	1975
E07-H02	Others, production	1975
E07-H03	Use of E07-H01 type heterocyclic	1975
E07-H04	Others, use	1975
E07-S	SPIROFUSED MONOCYCLIC HETEROCYCLES	
	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-cyclo-aromatics are coded in E10.

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

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.

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

2002

E10 AROMATIC AND CYCLOALIPHATIC (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.

E10-A	RARER CHEMICAL GROUPS
E10-A01	Sulphonium, halonium, carbonium, oxonium, aminimide, ylid, free radical Includes carbanion.
E10-A02	Halogen bonded to Hal, N or O
E10-A03	Nitrogen oxide, nitroso, nitron, azoxy, nitrolic acid Oxygen atom(s) may be replaced by sulphur atom(s).
E10-A03A	. Nitron, nitrolic acid
	2002
E10-A03B	. Nitrogen oxide (R₃N⁺=O), azoxy (R-N=N(=O)-R) Excluding nitrones, nitrolic acids
	2002
E10-A03C	. Nitroso (R-N⁺=O) Excluding nitrones, nitrolic acids
	2002
E10-A04	Peroxide, polysulphide - general Excluding thiosulphate, etc.
E10-A04A	. Polysulphide
	1986
E10-A04B	. Peroxide
	1986

E10-A04B1	.. Aromatic peroxides, gen Peroxides of Aromatic Acids or alcohols, e.g. R-OO- ; RCO-O-O-); R-SO2-O-O-	2002	E10-A06A	. Quinone <i>Previous code(s): E10-A06</i>	1994
E10-A04B1A	... Diacylperoxides e.g. RCO-O-O-CO-R); R-SO2-O-O-SO2-R	2002	E10-A06B	. Quinone derivative (except those with higher priority) <i>Previous code(s): E10-A06</i>	1994
E10-A04B1B	... Peresters Includes percarbonic acid esters (aromatic) e.g. R-CO-O-O-R, R-SO2-O-O-R.	2002	E10-A07	Sugar Oxygen atom(s) may be replaced by sulphur 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.	
E10-A04B1C	... Peracids Includes percarbonic acid (aromatic) e.g. R-CO-O-O-H; R-SO2-O-O-H.	2002	E10-A07A	. Unmodified sugar Including ethers and esters thereof	2005
E10-A04B1D	... Peroxides, other e.g. Ph-O-O-tBu;	2002	E10-A07B	. Sugar alcohol Including ethers and esters thereof	2005
E10-A04B1E	... Hydroperoxides, other e.g. Ph-O-O-H	2002	E10-A07C	. Sugar acid Including ethers and esters thereof	2005
E10-A04B2	.. (Cyclo)aliphatic peroxides, gen Peroxides of non-Aromatic Acids or alcohols	2002	E10-A07D	. Sugar amine	2005
E10-A04B2A	... Diacylperoxides e.g. RCO-O-O-CO-R); R-SO2-O-O-SO2-R	2002	E10-A07E	. Other sugar derivatives	2005
E10-A04B2B	... Peresters Include percarbonic acid esters (aliphatic) e.g. R-CO-O-O-R, R-SO2-O-O-R.	2002	E10-A08	Amide of sulphur acid - general	
E10-A04B2C	... Peracids Includes percarbonic acid (aliphatic) e.g. R-CO-O-O-H; R-SO2-O-O-H.	2002	E10-A08A	. Aromatic ring to N	1986
E10-A04B2D	... Peroxides, other e.g. PhCH2-O-O-tBu;	2002	E10-A08B	. Aromatic ring to S	1986
E10-A04B2E	... Hydroperoxides, other e.g. tBu-O-O-H	2002	E10-A08C	. Other	1986
E10-A05	Nitrate, nitrite Oxygen atom(s) may be replaced by sulphur atom(s).		E10-A09A	Sulphuric(ous) acid Oxygen atom(s) may be replaced by sulphur atom(s). This code includes all derivatives except those of higher priority.	
E10-A06	Quinone (derivative) 1970-1993 <i>Now coded as: E10-A06A, E10-A06B</i>		E10-A09A1	. Ether sulfates Sulfuric acid esters of ethoxylated alcohols	2005
			E10-A09A2	. Aliphatic sulfates	2005
			E10-A09A3	. Aromatic sulfates	2005
			E10-A09A4	. Other derivatives	2005

E10-A09B	Sulphonic acid - general Codes E10-A09B to E10-A09B5 include all derivatives except those of higher priority and oxygen atom(s) may be replaced by sulphur atom(s).		E10-A11A1	. Thiocarbonic acid, production <i>Previous code(s): E10-A11A</i>	1994
E10-A09B1	. (Thio)sulphonic ester, halide, anhydride; thiosulphonic acid	1975	E10-A11A2	. Thiocarbonic acid, use <i>Previous code(s): E10-A11A</i>	1994
E10-A09B2	. Sulphonic acid - with hetero group (atom) - general	1975	E10-A11B	Carbonic acid <i>Now coded as: E10-A11B1, E10-A11B2</i>	1970-1993
E10-A09B6	.. fused ring(s) present	1986	E10-A11B1	. Carbonic acid, production <i>Previous code(s): E10-A11B</i>	1994
E10-A09B7	.. single ring(s) present	1986	E10-A11B2	. Carbonic acid, use <i>Previous code(s): E10-A11B</i>	1994
E10-A09B8	.. no ring(s) present N.B. These last three codes are subdivisions of E10-A09B2	1986	E10-A12A	Dithiocarbamic acid <i>Now coded as: E10-A12A1, E10-A12A2</i>	1970-1993
E10-A09B3	. Sulphonic acid - with no hetero group (atom), production	1975	E10-A12A1	. Dithiocarbamic acid, production <i>Previous code(s): E10-A12A</i>	1994
E10-A09B4	. Aromatic sulphonic acid - with no hetero group (atom), use	1975	E10-A12A2	. Dithiocarbamic acid, use <i>Previous code(s): E10-A12A</i>	1994
E10-A09B5	. (Cyclo)aliphatic sulphonic acid - with no hetero group (atom), use	1975	E10-A12B	Monothiocarbamic acid <i>Now coded as: E10-A12B1, E10-A12B2</i>	1970-1993
E10-A09C	Other S acid Oxygen atom(s) may be replaced by sulphur atom(s). This code includes all derivatives except those of higher priority.		E10-A12B1	. Monothiocarbamic acid, production <i>Previous code(s): E10-A12B</i>	1994
E10-A10	Sulphone, sulfoxide - general Oxygen atom(s) may be replaced by sulphur atom(s).		E10-A12B2	. Monothiocarbamic acid, use <i>Previous code(s): E10-A12B</i>	1994
E10-A10A	. Sulfoxide	1986	E10-A12C	Carbamic acid <i>Now coded as: E10-A12C1, E10-A12C2</i>	1970-1993
E10-A10B	. Diaryl sulphone Both aryl groups attached directly to one -SO ₂ -.	1986	E10-A12C1	. Carbamic acid, production <i>Previous code(s): E10-A12C</i>	1994
E10-A10C	. Monoaryl sulphone Aryl group attached directly to SO ₂	1986	E10-A12C2	. Carbamic acid, use <i>Previous code(s): E10-A12C</i>	1994
E10-A10D	. Other	1986	E10-A13A	(Iso)thiourea <i>Now coded as: E10-A13A1, E10-A13A2</i>	1970-1993
E10-A11A	Thiocarbonic acid Codes E10-A11A to E10-A12C2 include all corresponding derivatives except those of higher priority <i>Now coded as: E10-A11A1, E10-A11A2</i>	1970-1993	E10-A13A1	. (Iso)thiourea, production <i>Previous code(s): E10-A13A</i>	1994
			E10-A13A2	. (Iso)thiourea, use <i>Previous code(s): E10-A13A</i>	1994
			E10-A13B	(Iso)urea <i>Now coded as: E10-A13B1, E10-A13B2</i>	1970-1993

E10-A13B1	. (Iso)urea, production <i>Previous code(s): E10-A13B</i>	1994	E10-A17A	. Biguanide, guanidine, amidine, production <i>Previous code(s): E10-A17</i>	1994
E10-A13B2	. (Iso)urea, use <i>Previous code(s): E10-A13B</i>	1994	E10-A17B	. Biguanide, guanidine, amidine, use <i>Previous code(s): E10-A17</i>	1994
E10-A14	(Iso)cyanate, nitrile oxide Oxygen atom may be replaced by sulphur atom. <i>Now coded as: E10-A14A, E10-A14B</i>	1970-1993	E10-A18	Hydroxylamine <i>Now coded as: E10-A18A, E10-A18B</i>	1970-1993
E10-A14A	. (Iso)cyanate, nitrile oxide, production Oxygen atom may be replaced by sulphur atom. <i>Previous code(s): E10-A14</i>	1994	E10-A18A	. Hydroxylamine, production Include organic hydroxamic acid production. <i>Previous code(s): E10-A18</i>	1994
E10-A14B	. (Iso)cyanate, nitrile oxide, use Oxygen atom may be replaced by sulphur atom. <i>Previous code(s): E10-A14</i>	1994	E10-A18B	. Hydroxylamine, use Include organic hydroxamic acid use. <i>Previous code(s): E10-A18</i>	1994
E10-A15	(Iso)cyanide - general		E10-A19	Hydrazine <i>Now coded as: E10-A19A, E10-A19B</i>	1970-1993
E10-A15A	. Poly(iso)cyanide and monoisocyanide	1975	E10-A19A	. Hydrazine, production 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. <i>Previous code(s): E10-A19</i>	1994
E10-A15B	. Cyanide with aliphatic unsaturation, production	1975	E10-A19B	. Hydrazine, use 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. <i>Previous code(s): E10-A19</i>	1994
E10-A15C	. Cyanide with aliphatic unsaturation, use	1975	E10-A20	Imine <i>Now coded as: E10-A20A, E10-A20B</i>	1970-1993
E10-A15D	. Other cyanide, production with CN formation	1975	E10-A20A	. Imine, production <i>Previous code(s): E10-A20</i>	1994
E10-A15E	. Other cyanide, production without CN formation -CN group is in a starting material and remains bonded to the same atom when in the product.	1975	E10-A20B	. Imine, use <i>Previous code(s): E10-A20</i>	1994
E10-A15F	. Other cyanide, use	1975	E10-A21	Quaternary ammonium (bis or poly) 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.	
E10-A16	Azide, azo, diazo(nium) <i>Now coded as: E10-A16A, E10-A16B</i>	1970-1993	E10-A22	Quaternary ammonium (mono) - general	
E10-A16A	. Azide, azo, diazo(nium), production <i>Previous code(s): E10-A16</i>	1994			
E10-A16B	. Azide, azo, diazo(nium), use <i>Previous code(s): E10-A16</i>	1994			
E10-A17	Biguanide, guanidine, amidine <i>Now coded as: E10-A17A, E10-A17B</i>	1970-1993			

E10-A22A	. Aromatic ring present	1986	E10-A25A1	. Acid anhydride, production Oxygen atom(s) may be replaced by sulphur atom(s).	1994
E10-A22B	. No Aromatic ring - general	1986		<i>Previous code(s): E10-A25</i>	
E10-A22C	. No Aromatic ring - with amine	1986	E10-A25A2	. Acid anhydride, use Oxygen atom(s) may be replaced by sulphur atom(s).	1994
E10-A22D	. No Aromatic ring - with acid (derivative)	1986		<i>Previous code(s): E10-A25</i>	
E10-A22E	. No Aromatic ring - with OH, ether	1986	E10-A25B1	. Acid halide, production Oxygen atom(s) may be replaced by sulphur atom(s).	1994
E10-A22F	. No Aromatic ring - with other hetero group (atom)	1986		<i>Previous code(s): E10-A25</i>	
E10-A22G	. No Aromatic ring - with no hetero atom(s)	1986	E10-A25B2	. Acid halide, use Oxygen atom(s) may be replaced by sulphur atom(s).	1994
E10-A23	Acetal, ketal Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).	1970-1993		<i>Previous code(s): E10-A25</i>	
	<i>Now coded as: E10-A23A, E10-A23B</i>		E10-B	AMINES	
E10-A23A	. Acetal, ketal, production Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).	1994	E10-B01	Polyamine - general	1986
	<i>Previous code(s): E10-A23</i>		E10-B01A	. Polyamine, at least 1 amine 'aromatic' - general i.e. Amino N on aromatic ring C.	
E10-A23B	. Acetal, ketal, use Including those with C atoms in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).	1994	E10-B01A1	.. with acid (derivative)	1986
	<i>Previous code(s): E10-A23</i>		E10-B01A2	.. With OH, ether	1986
E10-A24	Imide Oxygen atom(s) may be replaced by sulphur atom(s).	1970-1993	E10-B01A3	.. other, production	1986
	<i>Now coded as: E10-A24A, E10-A24B</i>		E10-B01A4	.. other, use	1986
E10-A24A	. Imide, production Oxygen atom(s) may be replaced by sulphur atom(s).	1994	E10-B01B	. Polyamine with no amine aromatic-general	
	<i>Previous code(s): E10-A24</i>		E10-B01C	.. Non-aromatic Polyamine, with Carboxylic acid, ester or amide group	1975
E10-A24B	. Imide, use Oxygen atom(s) may be replaced by sulphur atom(s).	1994	E10-B01C1	... With Carboxylic acid group	2002
	<i>Previous code(s): E10-A24</i>		E10-B01C2	... With Carboxylic acid ester group	2002
E10-A25	Acid anhydride, halide (carboxylic only) Oxygen atom(s) may be replaced by sulphur atom(s).	1970-1993	E10-B01C3	... With Carboxylic acid amide group	2002
	<i>Now coded as: E10-A25A1, E10-A25A2, E10-A25B1, E10-A25B2</i>		E10-B01D	.. with hydroxy, mercapto or (thio)ether group	1975
			E10-B01E	.. others	1975
			E10-B02	Amino-acid, -ester or -amide - general	1986

E10-B02A	. Aromatic amino-acid, -ester or -amide group Oxygen atom(s) may be replaced by sulphur atom(s).		E10-B03A	. Amino-phenol, - alcohol or ether – general (amine aromatic) N directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-B02A1	.. With Carboxylic acid group	2002	E10-B03A1	.. Aromatic Amino-phenol	2002
E10-B02A2	.. With Carboxylic acid ester group	2002	E10-B03A2	.. Aromatic Amino-alcohol e.g. Ph-NH-C ₂ H ₄ -OH	2002
E10-B02A3	.. With Carboxylic acid amide group	2002	E10-B03A3	.. Aromatic Amino-ether e.g. Ph-NH-C ₂ H ₄ -OR	2002
E10-B02B	. Amino-acid, -ester or -amide (amine not aromatic) - general Oxygen atom(s) may be replaced by sulphur atom(s).		E10-B03B	. Amino-phenol, - alcohol or ether – general (amine not aromatic) N NOT directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-B02C	. mixtures containing at least 3 naturally occurring amino acids	1975	E10-B03B1	.. Amino-phenol e.g. NH ₂ C ₂ H ₄ -O-p C ₆ H ₄ -OH	2002
E10-B02D	. Alpha-amino acid (or derivative of carboxyl group) general. Primary amine, only one side-chain which...	1975	E10-B03B2	.. Amino-alcohol Includes mono, di and tri alkanolamines e.g. NH ₂ -C ₂ H ₄ -OH.	2002
E10-B02D1	.. contains S e.g. Cys, Met	1986	E10-B03B3	.. Aminopolyether e.g. NH ₂ -(C ₂ H ₄ -O) _n -R	2002
E10-B02D2	.. contains benzene and phenolic OH e.g. Tyr	1986	E10-B03B4	.. Amino-ether e.g. NH ₂ -C ₂ H ₄ -OR	2002
E10-B02D3	.. is benzyl unsubstituted i.e. Phe	1986	E10-B04	Amine mono - general	1986
E10-B02D4	.. contains alcohol (derivative) e.g. Ser, Thr	1986	E10-B04A	. Other aromatic amine <i>Now coded as: E10-B04A1, E10-B04A2</i>	1970-1993
E10-B02D5	.. contains acid (derivative) e.g. Asp, Glu	1986	E10-B04A1	.. Other aromatic amine, production <i>Previous code(s): E10-B04A</i>	1994
E10-B02D6	.. is alkyl unsubstituted e.g. Ala, Gly, Ile, Leu, Val	1986	E10-B04A2	.. Other aromatic amine, use <i>Previous code(s): E10-B04A</i>	1994
E10-B02D7	.. Primary amine other	1986	E10-B04B	. Other non-aromatic amine – general	
E10-B02D8	.. Secondary, tertiary amine	1986	E10-B04C	. Production of Other non-aromatic amine	1975
E10-B02E	. others Oxygen atom(s) may be replaced by sulphur atom(s).	1975	E10-B04C1	.. Primary amine	2002
E10-B03	Amino-phenol, - alcohol or ether - general Oxygen atom(s) may be replaced by sulphur atom(s).	1986	E10-B04C2	.. Secondary or tertiary amine	2002

E10-B04D	. Use of unsubstituted aliphatic amine Excluding cycloaliphatic	1975
E10-B04D1	.. Primary amine	2002
E10-B04D2	.. Secondary or tertiary amine	2002
E10-B04E	. Use of other aliphatic amine Including cycloaliphatic, substituted aliphatic	1975
E10-B04E1	.. Primary amine	2002
E10-B04E2	.. Secondary or tertiary amine	2002
E10-C	CARBOXYLIC ACIDS (CA)	
E10-C01	Thio-CA	
E10-C02	Poly-CA - general	
E10-C02A	. Citric or isocitric acid	1975
E10-C02B	. Others with > 2 carboxy groups	1975
E10-C02C	. Di-CA with carbocyclic ring(s) <i>Now coded as: E10-C02C1, E10-C02C2</i>	1975-1993
E10-C02C1	.. Di-CA with carbocyclic ring(s), production Applied if both codes below could be applied. <i>Previous code(s): E10-C02C</i>	1994
E10-C02C1A	... Di-CA with aromatic ring, production	2010
E10-C02C1B	... Di-CA with cycloaliphatic ring, production	2010
E10-C02C2	.. Di-CA with carbocyclic ring(s), use Applied if both codes below could be applied. <i>Previous code(s): E10-C02C</i>	1994
E10-C02C2A	... Di-CA with aromatic ring, use	2010
E10-C02C2B	... Di-CA with cycloaliphatic ring, use	2010
E10-C02D	. Oxalic acid; unsubstituted alkylene di-CA <i>Now coded as: E10-C02D1, E10-C02D2</i>	1975-1993

E10-C02D1	.. Oxalic acid <i>Previous code(s): E10-C02D</i>	1994
E10-C02D2	.. Unsubstituted alkylene di-CA <i>Previous code(s): E10-C02D</i>	1994
E10-C02E	. Other di-CA, production	1975
E10-C02F	. Other di-CA, use	1975
E10-C03	CA with phenol or phenolic ester or ether group(s) Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-C04	Other carboxylic acid - general	1986
E10-C04A	. CA with cycloaliphatic ring system	
E10-C04B	. Hydroxy, aldehyde or ketonic CA (or ethers thereof) with an aromatic ring Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-C04C	. Other CA with aromatic ring	
E10-C04D	. Acyclic hydroxy, aldehyde or ketonic CA and acyclic ether thereof - general Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-C04D1	.. aldehyde, ketone present	1986
E10-C04D2	.. S present	1986
E10-C04D3	.. ether present	1986
E10-C04D4	.. alpha OH acid	1986
E10-C04D5	.. other OH acid	1986
E10-C04D6	.. Acid contains amide substituent Acyclic carboxylic acid with amide functional group.	2019
E10-C04E	. Other acyclic mono-CA - general	
E10-C04F	. substituted acyclic acid	1975
E10-C04G	. (Meth)acrylic acid	1975
E10-C04G1	.. (Meth)acrylic acid, production	2002
E10-C04G1A	... Acrylic acid, production Specifically AA production	2002

E10-C04G1B	... Methacrylic acid, production Specifically MA production	2002
E10-C04G2	.. (Meth)acrylic acid, use	2002
E10-C04G2A	... Acrylic acid, use Use of AA Specifically	2002
E10-C04G2B	... Methacrylic acid, use Use of MA Specifically	2002
E10-C04H	. Other unsaturated unsubstituted acid	1975
E10-C04J	. Formic, acetic acid 1975-1993 Now coded as: E10-C04J1, E10-C04J2	
E10-C04J1	.. Formic acid - general Previous code(s): E10-C04J	1994
E10-C04J1P	... Formic acid, production	2002
E10-C04J1U	... Formic acid, use	2002
E10-C04J2	.. Acetic acid - general Previous code(s): E10-C04J	1994
E10-C04J2P	... Acetic acid, production	2002
E10-C04J2U	... Acetic acid, use	2002
E10-C04K	. Other acid, production	1975
E10-C04L	. Other acid, use - general	1975
E10-C04L1	.. 2-9C Excluding C of carboxy.	1986
E10-C04L2	.. 10+C Excluding C of carboxy.	1986

E10-D ALDEHYDES AND CARBOXYLIC AMIDES

E10-D01	Aldehyde - general Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-D01A	. (Meth)acrolein, production	1975
E10-D01B	. Other aldehyde, production by olefin oxidation	1975

E10-D01C	. Other aldehyde, production by other methods Oxygen atom(s) may be replaced by sulphur atom(s).	1975
E10-D01D	. Use Oxygen atom(s) may be replaced by sulphur atom(s).	1975
E10-D02	Carboxylic amide, thio	
E10-D03	Carboxylic amide - general	
E10-D03A	. Polyamide	1975
E10-D03A1	.. Polyamide containing aromatic ring(s)	2011
E10-D03A2	.. Polyamide not containing aromatic ring(s)	2011
E10-D03B	. Containing phenol group(s)	1975
E10-D03C	. Amide of unsubstituted fatty acid, optionally unsaturated, optionally N-substituted	1975
E10-D03C1	.. Formamides, opt. N-substituted	2002
E10-D03C2	.. Amide of >1C unsubstituted fatty acid, optionally unsaturated, N-substituted by polyether Including polyetheralcohols, esters; e.g. R-CO1-N (-R'-O)n-R', R' = H, C, -CO1-R, etc.	2002
E10-D03C3	.. Amide of >1C unsubstituted fatty acid, optionally unsaturated, optionally N-substituted Excluding N-polyether derivatives (coded E10-D03C2)	2002
E10-D03D	. Others	1975

E10-E HYDROXY COMPOUNDS

E10-E	Within section E10-E02 the term naphthol includes all aromatic bicyclic compounds with phenolic OH. e.g. 1H-Inden-4-ol or 5, 6, 7, 8-tetrahydro-1-naphthol.	
E10-E01	Thiophenols, thionaphthols	
E10-E01P	. Thiophenols, thionaphthols production	2002
E10-E01U	. Thiophenols, thionaphthols - use	2002

E10-E02	Phenol - general 1970-1993 <i>Now coded as: E10-E02P, E10-E02U</i>	E10-E02E1	.. Phenol (optionally substituted only by hydrocarbyl) use 1994 <i>Previous code(s): E10-E02E</i>
E10-E02P	Phenol, naphthol, general, production 1994 <i>Previous code(s): E10-E02</i>	E10-E02E2	.. Naphthol (optionally substituted only by hydrocarbyl) use 1994 <i>Previous code(s): E10-E02E</i>
E10-E02A	. Polyphenol, polynaphthol, production 1975	E10-E02F	. Other phenol, use 1975-1993 <i>Now coded as: E10-E02F1, E10-E02F2</i>
E10-E02B	. Phenol or naphthol (optionally substituted only by hydrocarbyl) production 1975-1993 <i>Now coded as: E10-E02B1, E10-E02B2</i>	E10-E02F1	.. Other phenol, use 1994 <i>Previous code(s): E10-E02F</i>
E10-E02B1	.. Phenol (optionally substituted only by hydrocarbyl) production 1994 <i>Previous code(s): E10-E02B</i>	E10-E02F2	.. Other naphthol, use 1994 <i>Previous code(s): E10-E02F</i>
E10-E02B2	.. Naphthol (optionally substituted only by hydrocarbyl) production 1994 <i>Previous code(s): E10-E02B</i>	E10-E03	Thioalcohols - general
E10-E02C	. Other phenol, production 1975-1993 <i>Now coded as: E10-E02C1, E10-E02C2</i>	E10-E03A	. Polythiol contg. Carboxylic ester gp, production 2002
E10-E02C1	.. Other phenol, production 1994 <i>Previous code(s): E10-E02C</i>	E10-E03B	. Unsubstituted alkane polythiol, production 2002
E10-E02C2	.. Other naphthol, production 1994 <i>Previous code(s): E10-E02C</i>	E10-E03C	. Other polymercaptoalkanes, production 2002
E10-E02U	Phenol, naphthol, general - use 1994 <i>Previous code(s): E10-E02</i>	E10-E03D	. Monothiol containing Carboxylic ester gp, production 2002
E10-E02D	. Polyphenol, polynaphthol, use - general 1975	E10-E03E	. Unsubstituted alkanethiol, production 2002
E10-E02D1	.. nitro, S, X present 1986	E10-E03F	. Other alkanethiol production 2002
E10-E02D2	.. O present, other than phenol 1986	E10-E03G	. Polythiol contg. Carboxylic ester gp, use 2002
E10-E02D3	.. with 3 or more phenolic OH 1986	E10-E03H	. Unsubstituted alkane polythiol, use 2002
E10-E02D4	.. with 2 phenolic OH and 2 or more ring systems 1986	E10-E03J	. Other polymercaptoalkanes, use 2002
E10-E02D5	.. with 2 phenolic OH and 1 ring system 1986	E10-E03K	. Monothiol containing Carboxylic ester gp, use 2002
E10-E02E	. Phenol or naphthol (optionally substituted only by hydrocarbyl), use 1975-1993 <i>Now coded as: E10-E02E1, E10-E02E2</i>	E10-E03L	. Unsubstituted alkanethiol, use 2002
		E10-E03M	. Other alkanethiol, use 2002
		E10-E03P	. Thiol production, general Covers very generic information, or when three or more thiol production codes are applicable 2014

E10-E03U	. Thiol use, general Covers very generic information, or when three or more thiol use codes are applicable 2014	E10-E04H1	.. Diol 2005
E10-E04	Alcohol - general	E10-E04H2	.. Triol 2005
E10-E04A	. Polyhydric containing carboxylic ester group(s) production 1975	E10-E04H3	.. 4 or more hydroxy Not including sugar alcohol (see E10- A07B) 2005
E10-E04B	. Unsubstituted polyhydroxy-alkane, production 1975	E10-E04J	. Other polyhydric alcohol, use 1975
E10-E04C	. Other polyhydric alcohol, production 1975	E10-E04J1	.. Ring present 2005
E10-E04C1	.. Polyetherpolyol, production Incl polyglycol-, polyglyceryl-, ethers 2002	E10-E04J2	.. Ketone, nitro, halogen or unsaturation present 2005
E10-E04C2	.. Other polyhydric alcohol, production 2002	E10-E04J3	.. Ether present, poly 2005
E10-E04D	. Monohydric containing carboxylic ester group(s), production 1975	E10-E04J4	.. Ether present, mono 2005
E10-E04D1	.. Monohydric contg Polyetherpolyol carboxylic ester group(s), production [RCO(-O-R') _n -O] _m -R-OH (m>0, n>1) 2002	E10-E04K	. Monohydric, containing carboxylic ester group(s) use 1975
E10-E04D2	.. Other monohydric alcohol containing carboxylic ester(s), production 2002	E10-E04L	. Unsubstituted alkanol, use -general 1975
E10-E04E	. Unsubstituted alkanol production - general 1975	E10-E04L1	.. methanol 1986
E10-E04E1	.. methanol 1986	E10-E04L2	.. ethanol 1986
E10-E04E2	.. ethanol 1986	E10-E04L3	.. propanols, butanols 1986
E10-E04E3	.. propanols, butanols 1986	E10-E04L4	.. with 5-10C 1986
E10-E04E4	.. with 5-10C 1986	E10-E04L5	.. with 11 or more C 1986
E10-E04E5	.. with 11 or more C 1986	E10-E04M	. Other monohydric alcohol, use - general 1975
E10-E04F	. Other monohydric alcohol, production 1975	E10-E04M1	.. ring(s) present 1986
E10-E04G	. Polyhydric, containing carboxylic ester group(s) use 1975	E10-E04M2	.. ketone, nitro, halogen or unsaturation present 1986
E10-E04H	. Unsubstituted polyhydroxy-alkane, use 1975	E10-E04M3	.. ether present, poly 1986
		E10-E04M4	.. ether present, mono 1986
		E10-F	KETONES
		E10-F01	Thioketone
		E10-F02	Ketone – general
		E10-F02A	. With carbocyclic ring(s) - general 1975
		E10-F02A1	.. ketone on ring 1986

E10-F02A2	.. ketone on chain of aromatic compound	1986	E10-G02D4	.. Monoesters of other unsaturated acids, Production	2002
E10-F02A3	.. ketone on chain of alicyclic compound	1986	E10-G02E	. Other aliphatic monoester, production	1975
E10-F02B	. Other ketone, production	1975	E10-G02U	. Use of esters - general	2005
E10-F02C	. Other ketone, use	1975	E10-G02F	. Ester with carbocyclic ring(s), use Now coded as: E10-G02F1, E10-G02F2	1975-1993
E10-G	CARBOXYLIC ESTERS AND NITRO COMPOUNDS	1994	E10-G02F1	.. Ester with aromatic ring, use Previous code(s): E10-G02F	1994
E10-G01	Thiocarboxylic ester		E10-G02F2	.. Ester with alicyclic ring, use Previous code(s): E10-G02F	1994
E10-G02	Carboxylic ester – general		E10-G02G	. Other polyester, use Now coded as: E10-G02G1, E10-G02G2	1975-1993
E10-G02P	. Production of esters- general	2005	E10-G02G1	.. Aliphatic polyester with halogen or (thio)ether group(s), use Previous code(s): E10-G02G	1994
E10-G02A	. With carbocyclic ring, production Now coded as: E10-G02A1, E10-G02A2	1975-1993	E10-G02G2	.. Other aliphatic polyester, use Previous code(s): E10-G02G	1994
E10-G02A1	.. With aromatic ring, production Previous code(s): E10-G02A	1994	E10-G02H	. Other monoester, use Now coded as: E10-G02H1, E10-G02H2	1975-1993
E10-G02A2	.. With alicyclic ring, production Previous code(s): E10-G02A	1994	E10-G02H1	.. Aliphatic monoester with halogen or (thio)ether group(s), use Previous code(s): E10-G02H	1994
E10-G02B	. Other polyester, production Now coded as: E10-G02B1, E10-G02B2	1975-1993	E10-G02H2	.. Other aliphatic monoester, use gen Previous code(s): E10-G02H	1994
E10-G02B1	.. Aliphatic polyester with halogen or (thio)ether group(s), production Previous code(s): E10-G02B	1994	E10-G02H2A	... Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), Use	2002
E10-G02B2	.. Other aliphatic polyester production Previous code(s): E10-G02B	1994	E10-G02H2B	... Other Monoesters of unsaturated alcohols (e.g. vinyl acetate), Use	2002
E10-G02C	. Aliphatic monoester with halogen or (thio)ether group(s), production	1975	E10-G02H2C	... (Meth)acrylic acid esters), Use	2002
E10-G02D	. Unsaturated monoester, production	1975	E10-G02H2D	... Monoesters of other unsaturated acids, Use	2002
E10-G02D1	.. Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), Production	2002	E10-G02H2E	... Saturated aliphatic esters (other), Use	2002
E10-G02D2	.. Other Monoesters of unsaturated alcohols (e.g. vinyl acetate), Production	2002			
E10-G02D3	.. (Meth)acrylic acid esters, Production	2002			

E10-G03	Nitro compounds, general One of the more specific codes are always applied in preference, unless 3 or more of them could be applied to the patent 1994
E10-G03A	. With carbocyclic ring, production <i>Previous code(s): E10-G03</i> 1994
E10-G03B	. Other nitro, production <i>Previous code(s): E10-G03</i> 1994
E10-G03C	. With carbocyclic ring, use <i>Previous code(s): E10-G03</i> 1994
E10-G03D	. Other nitro, use <i>Previous code(s): E10-G03</i> 1994
E10-H	ETHERS AND HALOGEN COMPOUNDS
E10-H01	Ether and thioether - general
E10-H01A	. Thioether with halogen 1986
E10-H01B	. Thioether with no halogen 1986
E10-H01C	. Ether with halogen 1986
E10-H01D	. Ether with no halogen, poly 1986
E10-H01E	. Ether with no halogen, mono 1986
E10-H02	Halogen - general 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. 1986-1993
E10-H02A	. F, bonded to aromatic ring 1970-1993
E10-H02B	. F, not bonded to aromatic ring 1970-1993
E10-H02C	. Br or I, bonded to aromatic ring 1970-1993
E10-H02D	. Br or I, not bonded to aromatic ring 1970-1993
E10-H02E	. Cl, bonded to aromatic ring 1970-1993
E10-H02F	. Cl, not bonded to aromatic ring - general 1970-1993
E10-H02G	.. containing carbocyclic ring(s); polychloro-alkene and -alkyne 1975-1993

E10-H02H	.. polychloroalkane 1975-1993
E10-H02J	.. monochloro-alkene and -alkyne 1975-1993
E10-H02K	.. monochloro-alkane 1975-1993
E10-H03	Halogen production - general <i>Previous code(s): E10-H02</i> 1994
E10-H03A	. F only production - general <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i> 1994
E10-H03A1	.. F only, F bonded to aromatic ring, production <i>Previous code(s): E10-H02A</i> 1994
E10-H03A2	.. F only, other carbocyclic (including F on chain of aromatic ring), production <i>Previous code(s): E10-H02B</i> 1994
E10-H03A3	.. F only, aliphatic, production <i>Previous code(s): E10-H02B</i> 1994
E10-H03B	. F + Cl only production - general <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i> 1994
E10-H03B1	.. F + Cl only, carbocyclic, production <i>Previous code(s): E10-H02A, E10-H02B</i> 1994
E10-H03B2	.. F + Cl only, aliphatic, production <i>Previous code(s): E10-H02B</i> 1994
E10-H03C	. Cl only production - general <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i> 1994
E10-H03C1	.. Cl only, Cl bonded to aromatic ring, production <i>Previous code(s): E10-H02E</i> 1994
E10-H03C2	.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), production <i>Previous code(s): E10-H02F, E10-H02G</i> 1994
E10-H03C3	.. Cl only, unsaturated aliphatic, production <i>Previous code(s): E10-H02G, E10-H02J</i> 1994
E10-H03C4	.. Polychloroalkane, production <i>Previous code(s): E10-H02H</i> 1994

E10-H03C5	.. Monochloroalkane, production <i>Previous code(s): E10-H02K</i>	1994
E10-H03D	. Other halogen compound production - general <i>Previous code(s): E10-H02</i>	1994
E10-H03D1	.. Other halogen compound, carbocyclic, production <i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>	1994
E10-H03D2	.. Other halogen compound, aliphatic, production <i>Previous code(s): E10-H02B, E10-H02D</i>	1994
E10-H04	Halogen use - general <i>Previous code(s): E10-H02</i>	1994
E10-H04A	. F only use - general <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	1994
E10-H04A1	.. F only, F bonded to aromatic ring, use <i>Previous code(s): E10-H02A</i>	1994
E10-H04A2	.. F only, other carbocyclic (including F on chain of aromatic ring), use <i>Previous code(s): E10-H02B</i>	1994
E10-H04A3	.. F only, aliphatic, use <i>Previous code(s): E10-H02B</i>	1994
E10-H04B	. F + Cl only use - general <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	1994
E10-H04B1	.. F + Cl only, carbocyclic, use <i>Previous code(s): E10-H02A, E10-H02B</i>	1994
E10-H04B2	.. F + Cl only, aliphatic, use <i>Previous code(s): E10-H02B</i>	1994
E10-H04C	. Cl only use - general <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i>	1994
E10-H04C1	.. Cl only, Cl bonded to aromatic ring, use <i>Previous code(s): E10-H02E</i>	1994

E10-H04C2	.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), use <i>Previous code(s): E10-H02F, E10-H02G</i>	1994
E10-H04C3	.. Cl only, unsaturated aliphatic, use <i>Previous code(s): E10-H02G, E10-H02J</i>	1994
E10-H04C4	.. Polychloroalkane, use <i>Previous code(s): E10-H02H</i>	1994
E10-H04C5	.. Monochloroalkane, use <i>Previous code(s): E10-H02K</i>	1994
E10-H04D	. Other halogen compound use - general <i>Previous code(s): E10-H02</i>	1994
E10-H04D1	.. Other halogen compound, carbocyclic, use <i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>	1994
E10-H04D2	.. Other halogen compound, aliphatic, use <i>Previous code(s): E10-H02B, E10-H02D</i>	1994
E10-J	HYDROCARBONS	
E10-J01	-C-triple bond-C-, may form part of alicyclic ring <i>Now coded as: E10-J01A, E10-J01B</i>	1970-2011
E10-J01A	Alkyne/cycloalkyne production	2012
E10-J01B	Alkyne/cycloalkyne use	2012
E10-J02A	Cycloaliphatic ring system present <i>Now coded as: E10-J02A1, E10-J02A2</i>	1970-1993
E10-J02A1	Cycloaliphatic ring system present, production <i>Previous code(s): E10-J02A</i>	1994
E10-J02A2	Cycloaliphatic ring system present, use <i>Previous code(s): E10-J02A</i>	1994
E10-J02B	Aromatic - general	
E10-J02B1	. Production by hydrodealkylation or disproportionation	1977
E10-J02B2	. Purification	1977
E10-J02B3	. Other production methods	1977

E10-J02B4	. Uses	1977
E10-J02C	Aliphatic olefinic - general	
E10-J02C1	. Production by oligomerisation	1977
E10-J02C2	. Production by disproportionation of other olefins	1977
E10-J02C3	. Other production methods	1977
E10-J02C4	. Uses	1977
E10-J02D	Aliphatic saturated - general	
E10-J02D1	. Methane	1986
E10-J02D2	. Ethane, propane, (iso)butane	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

E11-A	CYCLISATION	1970-2006
	<i>Now coded as the more specific code(s) E11-A01, -A02</i>	
E11-A01	. Cyclisation – Processes, Apparatus	2006
E11-A01A	.. Forming carbocyclic rings	2022
E11-A01B	.. Forming heterocyclic rings	2022
E11-A02	. Decyclisation (Ring Opening) – Processes, Apparatus	2006
E11-B	RING/CHAIN-EXPANSION/CONTRACTION	1970-2001
	<i>Now coded as: E11-B01, E11-F01, -F02, -F03, -G01, -G02</i>	
E11-B01	. Ring expansion/contraction	2002
	<i>Previously coded as: E11-B</i>	
E11-C	DEPOLYMERISATION	
E11-D	HYDROGENATION, REDUCTION	
	Includes hydrogenolysis	
E11-D01	. Hydrogenation of unsaturated C-C bonds	2006
E11-D02	. Hydrogenation Other	2006
E11-E	OXIDATION, DEHYDROGENATION	
E11-E01	. Oxidation with O ₂ , Air	2006
E11-E02	. Dehydrogenation of C-C bonds	2006
E11-E03	. Other Oxidation, Dehydrogenation process	2006

E11-F	ADDITION OR SUBSTITUTION REACTIONS – GENERAL/UNCLASSIFIED From 2006 this code has been extended to cover both addition and substitution reactions. Substitution reactions were previously covered in E11-H.	
E11-F01	. Oligomerisation, telomerisation <i>Chain expansion previously coded under E11-B</i>	2002
E11-F01A	.. Dimerisation Dimerisation is a reaction in which two monomers combine to form a dimer. For example, conversion of ethene to butene.	2010
E11-F02	. Addition reactions of CO and/or CO₂: hydroformylation; (oxy)carbonylation; carboxylation; homologation; etc. <i>Chain expansion previously coded under E11-B</i>	2002
E11-F02A	.. Addition of CO to olefin bonds (hydroformylation)	2006
E11-F02B	.. Other addition reactions of CO(2)	2006
E11-F03	. Alkylation, Arylation, Acylation of C atoms; condensation; other carbon chain extension; reforming <i>Chain expansion previously coded under E11-B</i>	2002
E11-F04	. Hydration, Hydroxylation	2002
E11-F05	. Etherification, acetalisation, O-alkylation	2002
E11-F06	. Esterification, O-acylation, anhydride formation	2002
E11-F07	. Addition of nitrogenous functions, (general)	2002
E11-F07A	.. Amination, N-alkylation, N-acylation	2002
E11-F07B	.. Nitration	2002
E11-F07C	.. Ammonia oxidation, Ammoxidation	2006
E11-F07D	.. Other N processes Used for specified nitrogen-containing groups. General references code as E11-F07.	2010
E11-F08	. (Hydro) halogenation	2002
E11-F09	. Addition of Sulphur functions for example, sulphonation	2002
E11-F10	. Addition of P / Si / B or other heteroatom (other than O, S, N and halogen) <i>See also N07-D11.</i>	2010
E11-F10A	.. Addition of Phosphorus functions E.g. phosphorylation.	2013
E11-F10B	.. Addition of Silicon functions E.g. silylation.	2013
E11-F10C	.. Addition of Boron functions E.g. alkylation of boron.	2013
E11-F10D	.. Addition of isotope or other heteroatom (other than O, N, S and halogen) Reactions including metal carbon bond.	2013
E11-F11	.. Complex and salt formation reactions Includes salts of organic ammonium compounds and salts of alcohols and counter ions.	2014
E11-G	ELIMINATION/ CLEAVAGE REACTIONS – GENERAL OR UNCLASSIFIED Includes cracking.	
E11-G01	. Decarboxylation; decarbonylation <i>Chain contraction previously coded under E11-B</i>	2002
E11-G02	. Cracking; other C-C bond fission <i>Chain contraction previously coded under E11-B</i>	2002
E11-G03	. Hydrolysis	2002
E11-G04	. De(hydro)halogenation	2006

E11-G05	<ul style="list-style-type: none"> Dehydration Applied where dehydration results in a product formation, e.g. dehydration of ethanol fuel; or manufacture of ethylene by dehydration of ethanol. 	2010
E11-G06	<ul style="list-style-type: none"> Dehydroxylation Removal of hydroxy / hydroxyl (OH) groups. 	2010
E11-G07	<ul style="list-style-type: none"> Deamination Removal of amine / amino (NH₂, NHR) groups. 	2010
E11-G08	<ul style="list-style-type: none"> Desulfurization, Desulfonation and desulfation reactions Covers desulfurization, desulfonation and desulfation which takes place within the molecule to give a new product. 	2014
E11-H	EXCHANGE REACTIONS – GENERAL OR UNCLASSIFIED From 2006 "substitution reactions" have been transferred to E11-F. Prior to 2006 substitution reactions remain searchable in E11-H.	
E11-H01	<ul style="list-style-type: none"> Transesterification; ether / acetal exchange 	2002
E11-H02	<ul style="list-style-type: none"> Olefin Metathesis 	2006
E11-H03	<ul style="list-style-type: none"> Rearrangement reactions Any rearrangement reaction which gives a non-isomeric product e.g. Beckmann rearrangement. 	2016
E11-J	ISOMERISATION, RACEMISATION	
E11-J01	<ul style="list-style-type: none"> Isomerisation 	2006
E11-J02	<ul style="list-style-type: none"> Racemisation 	2006
E11-J03	<ul style="list-style-type: none"> Asymmetric synthesis 	2013
E11-K	GENERAL AND OTHER CHEMICAL PROCESSES	
E11-K01	<ul style="list-style-type: none"> Production by combinatorial chemistry Applied in addition to other (structural) codes 	2002

E11-K02	<ul style="list-style-type: none"> Apparatus for combinatorial chemistry Applied in addition to other (structural) codes 	2002
E11-K03	<ul style="list-style-type: none"> Green Chemistry 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

PHYSICAL

E11-L	RESOLUTION	
E11-M	FERMENTATION; ENZYME CATALYSIS	
E11-N	ELECTROCHEMICAL, ELECTRIC DISCHARGE	
E11-P	IRRADIATION, PHOTOGRAPHIC	
E11-Q	SEPARATION, REMOVAL, ANALYSIS - GENERAL The following are not in order of priority.	
E11-Q01	Separation, extraction, recovery, purification	1986
E11-Q01A	<ul style="list-style-type: none"> Purification by chemical means 	2005
E11-Q01B	<ul style="list-style-type: none"> Purification by physical means 	2005
E11-Q01C	<ul style="list-style-type: none"> Extraction from natural materials Covers chemical compounds extracted from a plant or organism or any other natural materials. Does not include standard lab extraction methods. 	2010
E11-Q02	Removal, effluent treatment	1986
E11-Q02A	<ul style="list-style-type: none"> Engine exhaust treatment 	2005
E11-Q02B	<ul style="list-style-type: none"> Industrial effluent treatment 	2005
E11-Q02C	<ul style="list-style-type: none"> Other 	2005
E11-Q03	Analysis, or detection - general	1986

E11-Q03A	. Mass spectroscopy	1986
E11-Q03B	. NMR, ESR spectroscopy	1986
E11-Q03C	. Radio, IR, vis, UV, Raman spectroscopy	1986
E11-Q03D	. X-ray, gamma-ray	1986
E11-Q03E	. Chromatography	1986
E11-Q03F	. Electrophoresis, electrostatics	1986
E11-Q03G	. Microscopy light, electron	1986
E11-Q03H	. Sound, ultrasonics	1986
E11-Q03J	. Polarography, potentiometry, electrolysis	1986
E11-Q03K	. Radioactivity, isotope	1986
E11-Q03L	. Colour change (visual)	1986
E11-Q03M	. Magnetism	1986
E11-Q03N	. Thermal means	1986
E11-R	TREATMENT, DYEING, OTHER PHYSICAL PROCESSES - GENERAL The following are not in order of priority.	
E11-R01	. Treatment during preparation, manufacture	1986
E11-R01A	.. by addition of compound	1986
E11-R01B	.. by physical process, crystallisation	1986
E11-R02	. Treatment after preparation, manufacture:	1986
E11-R02A	.. by grinding, particle size reduction	1986
E11-R02B	.. By solvent treatment crystallisation, particle size increase For crystallisation prior to 198601 search E11-Q.	1986
E11-R02C	.. other	1986
E11-R03	. Dyeing	1986

E11-R04	. Other physical process	1986
E11-R04A	.. Allotropism e.g from graphite to diamond.	2012
E11-S	STORAGE	1986
E11-T	VAT RESIDUE, WASTE FROM PRODUCTION <i>Retired.</i>	1994-2009
E11-W	ENVIRONMENTALLY FRIENDLY INVENTIONS (COMPOSITIONS / APPLICATIONS) 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

E12 PHYSICAL FORM

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

E12-A	SOLID FORM - GENERAL	
		2011
E12-A01	. Crystalline form	2011
E12-A02	. Amorphous form The non-crystalline solid state of a typically crystalline solid.	2011
E12-A03	. Capsule or microcapsule	2011
E12-A04	. Film, sheet Belt, ribbon, plate, membrane.	2011
E12-A05	. Coated form Apply this code when the novelty is a coated form, e.g. metal with a TiO ₂ coating.	2011
E12-A06	. Pellet Includes prill, granule.	2012
E12-A07	. Powder Includes dusting powder.	2012
E12-A08	. Particles and particulate forms	2012
E12-A09	. Moulded articles	2012
E12-A09A	.. Tablets	2012
E12-A09B	.. Bars	2012
E12-A10	. Foam, expanded/porous forms	2012
E12-A11	. Laminate	2012
E12-A12	. Whisker, fibre or wire	2012
E12-A13	. Microspheres; spheres	2012
E12-A14	. Flakes	2013
E12-A15	. Core-shell Formulation containing core-shell structure.	2021
E12-B	Liquid form, semi solid form - general	2011

E12-B01	. Ionic liquid A salt in a liquid state, e.g. alkyl-substituted imidazolium and pyridinium cations, with halide or trihalogenoaluminate anions.	2011
E12-B02	. Solvated form Includes solution.	2011
E12-B03	. Emulsion	2011
E12-B04	. Dispersion, suspension	2011
E12-B05	. Cream, paste	2011
E12-B06	. Melt (excluding E12-A01) 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
E12-B07	. Liquid crystals	2012
E12-B08	. Gel	2012
E12-C	Gaseous form - general	2011
E12-C01	. Aerosol	2011
E12-C02	. Aerogel	2014

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

E21-C10	.. monoazo, diazo component - aniline derivative
E21-C11	.. monoazo, diazo component - other carbocyclic systems
E21-C12	.. monoazo, diazo component - aminothiazole type Includes benzthiazoles.
E21-C13	.. monoazo, diazo component - other heterocyclic system
E21-C14	.. monoazo, diazo component - two or more of above types
E21-C15	.. monoazo, coupling component - benzene derivative
E21-C16	.. monoazo, coupling component - other carbocyclic system
E21-C17	.. monoazo, coupling component - heterocyclic
E21-C18	.. monoazo, coupling component - miscellaneous
E21-C19	.. monoazo, coupling component - two or more of above types
E21-C02	. Water-insoluble, disazo - general 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
E21-C20	.. disazo-type A → M → E
E21-C21	.. disazo-type D → (E)2
E21-C22	.. disazo-type A → Z ← A
E21-C23	.. Disazo-other Includes condensed.
E21-C03	. Water-insoluble tris(poly)azo
E21-D	REACTIVE Not coded in E21-A/B/C. Use all relevant codes between E21-D01 and E21-D09 as appropriate.
E21-D	General
E21-D01	Reactive system - triazine type
E21-D02	Reactive system - other heterocyclic
E21-D03	Reactive system - labile group linked by SO₂ (NR)
E21-D04	Reactive system - other systems

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

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.

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

E23 PHTHALOCYANINE (MACROCYCLIC) DYES

E23	General
E23-A	WATER-SOLUBLE
E23-A	General
E23-A01	Reactive
E23-A02	Non-reactive
E23-B	WATER-INSOLUBLE
E23-B	General

E24 SPECIAL CLASSES OF DYES

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

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

E25 GENERAL AND OTHER DYES

E25	Dyes and pigments - general
E25-A	Nitro, nitroso
E25-A	General
E25-B	METHINE, STYRYL
E25-B	General
E25-B01	Methine dye used as electrophotographic charge transport agent Previous code(s): E25-B 1994
E25-B02	Methine dye used in a silver halide photosensitive photographic composition e.g. as photosensitiser or antihalation dye. Previous code(s): E25-B 1994
E25-B03	Other Previous code(s): E25-B 1994
E25-C	AZAMETHINE Includes =N-
E25-C	General
E25-D	TRI- AND DI-ARYLMETHANE
E25-D	General
E25-E	OTHER TYPES - GENERAL In order of priority: E25-E01 > E25-E02 > E25-E03.
E25-E	General
E25-E01	Ring(s) containing N 1986
E25-E02	Ring(s) containing O 1986
E25-E03	Other 1986
E25-F	NATURAL DYE OF UNKNOWN STRUCTURE 1994
E25-F	General 1994
E25-G	REACTIVE DYE GENERAL 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	
E26-A	COUPLERS	
E26-A	General	1975
E26-A01	Azo	1986
E26-A02	Condensation: photographic	1986
E26-A03	Condensation: other; oxidation; other	1986
E26-B	LACTONES, LACTAMS, SULTONES, SULTAMS, PHOTOCHROMICS, SPIROPYRANS	1975
E26-B	General	
E26-C	OTHER DYE PRECURSORS	1975
E26-C	General	

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

1. Code E31-E (peroxide) has priority over all other section (E3) codes.
2. Code E32-B (cyanogen and derivatives) has priority over E33, 34 and E35.
3. Within each of E32, E33, E34 and E35 all appropriate codes are assigned.
4. 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
5. 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) hyposulphite, polythionate/ite (E31-F+) thiosulphate (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+)
6. E31 has priority over E33, E34 for sulphides of:- alkali metal, Mg, Ca, Sr, Ba (E31-F+).

Note

1. 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	
E31-A	HYDROGEN, METAL HYDRIDE, WATER - GENERAL Excludes H of acids.	
E31-A01	H₂ + CO	1986
E31-A02	H₂ production, storage	1986
E31-A02A	. By electrical method	2005
E31-A02B	. Storage	2005
E31-A02C	. Other	2005
E31-A03	H₂ use, detection, removal	1986
E31-A04	metal hydride	1986
E31-A05	water, other	1986
E31-B	HALOGEN (X), X ACID AND HALIDE (HAL) - GENERAL	
E31-B01	Electrical production of X Includes electrolyte and apparatus.	1975
E31-B02	production of X by other methods, production of HX or inter-X compound	1975
E31-B02A	. F, Br, I element production	2005
E31-B02B	. Cl element production	2005
E31-B02C	. F, Br, I compound production	2005
E31-B02D	. Cl compound production	2005
E31-B03	use of X or compound containing X - general For oxy X compound see E31-C.	1975
E31-B03A	. F, Br, I element	1986
E31-B03B	. Cl element	1986

E31-B03C	. F, Br, I compound	1986
E31-B03D	. Cl compound	1986
E31-C	OXIDE OR OXYACID OF HALOGEN, INCLUDING SALTS Oxide or oxyacid of halogen, including salts.	
E31-D	OXYGEN, OZONE; OXIDE - GENERAL	
E31-D01	O2 production, storage Oxygen or oxygen ion production or storage.	1986
E31-D02	O2 use, detection, removal	1986
E31-D03	O3 ; activated oxygen etc.	1986
E31-D04	oxide	1986
E31-D05	Hydroxide ion Includes hydroxide ion and Active species such as hydroxy radical.	2005
E31-E	PEROXIDE, PERACID; SALTS THEREOF N.B. has priority over all other section (E3) codes.	
E31-E01	Hydrogen peroxide	2005
E31-E02	Percarbonate	2005
E31-E03	Persulfate	2005
E31-E04	Perborate	2005
E31-E05	Other inorganic peroxides Includes superoxides as well as pernitrates, perphosphates and metal peroxides.	2005
E31-F	SULPHUR; COMPOUND THEREOF - GENERAL	
E31-F01	Removal of S compound(s) from wastes etc., optionally with recovery of S values (general) 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
E31-F01A	. removal of S oxide	1986

E31-F01B	. removal of S hydride	1986
E31-F01C	. removal of other S compound	1986
E31-F02	production of S, H2S (or salts), polysulphide Excludes E31-F01.	1975
E31-F03	production of other S compound	1975
E31-F04	Use of elemental sulfur, (poly)sulfide or oxide of S Includes complex oxides.	1975
E31-F05	Use of other S compound Includes S oxyacid.	1975
E31-G	SELENIUM (SE) OR TELLURIUM (TE) OR COMPOUND THEREOF	
E31-H	NITROGEN, COMPOUND THEREOF GENERAL	
E31-H01	Removal of nitrogen oxides from waste gases etc. catalytically	1977
E31-H02	Other methods for removing N oxides from waste gases etc.	1977
E31-H03	Elemental N; compound containing halogen and/or sulphur	1977
E31-H04	Production of other N compound Nitride, Metal nitride.	1977
E31-H05	Use of other N compound Nitride, Metal nitride.	1977
E31-J	NOBLE GAS (OR COMPOUND)	
E31-K	PHOSPHORUS OR COMPOUND THEREOF - GENERAL	
E31-K01	catalyst containing P (or compound)	1975
E31-K02	H3PO4 (optionally some polyphosphoric acid) production	1975
E31-K03	orthophosphate (optionally some polyphosphate) - production	1975

E31-K04	P; other P compound - production Includes polyphosphates, thiophosphates and thiopolyphosphates. 1975
E31-K05	Orthophosphate use - general Includes acid and P heteropolyacid. 1975
E31-K05A	. orthophosphoric acid 1986
E31-K05B	. counter ion is metal from Section 35 1986
E31-K05C	. counter ion is metal from Section 34 1986
E31-K05D	. counter ion is metal from Section 33 1986
E31-K05E	. counter ion is ion from Section 32, 31 or is organic 1986
E31-K06	Polyphosphate, use Includes meta. 1975
E31-K07	P; other P compound, use Includes polyphosphates, thiophosphates and thiopolyphosphates. 1975
E31-L	ARSENIC OR COMPOUND THEREOF
E31-M	ANTIMONY COMPOUND
E31-N	CARBON OR COMPOUND THEREOF - GENERAL
E31-N01	C fibre production 1975
E31-N02	C modification Includes C fibre graphitisation. 1975
E31-N03	C production Includes diamonds. 1975
E31-N03A	. Diamond, cubic C 2005
E31-N03B	. Graphite (other) pyrolytic Not C fiber graphitisation- E31-N02 2005
E31-N03C	. Active 2005

E31-N03D	. Inert 2005
E31-N04	use of C - general e.g. As purifier, catalyst. 1975
E31-N04A	. diamond, cubic C 1986
E31-N04B	. graphite, (other) pyrolytic 1986
E31-N04C	. other form of C, active 1986
E31-N04D	. other form of C, inert 1986
E31-N04E	. C, fibre, use Includes active and inert forms. 2012
E31-N05	compound of C - general See E31-A for CO with H2 mixtures. 1975
E31-N05A	. metal carbide 1986
E31-N05B	. (thio) CO, carbonyl compound For metal carbonyls see code for metal. 1986
E31-N05B1	.. Carbon monoxide 2005
E31-N05B2	.. other 2005
E31-N05C	. CO2 Includes carbonic acid. 1986
E31-N05D	. other C compound 1986
E31-P	SILICON OR COMPOUND THEREOF—GENERAL
E31-P01	production and/or modification of silica or hydrate 1975
E31-P02	mixture of silica and alumina (may be chemically combined) - general 1975
E31-P02A	. zeolite production 1986
E31-P02B	. zeolite use 1986
E31-P02C	. non-zeolite production 1986
E31-P02D	. non-zeolite use 1986
E31-P03	use of silica, other than mixture with alumina 1975

E31-P04	fluorosilicate; silicate mineral (other than +Al)	1975
E31-P05	other silicate - general	1975
E31-P05A	. non alkali(ne earth) metal present	1986
E31-P05B	. alkaline earth metal present	1986
E31-P05C	. alkali metal present	1986
E31-P05D	. other silicate	1986
E31-P06	Silicon; other Si compound – general Three or more roll up.	1975
E31-P06A	. Si element	1986
E31-P06B	. Si halide, hydride	1986
E31-P06C	. Si carbide	1986
E31-P06D	. Si nitride	1986
E31-P06E	. other Si compound	1986
E31-Q	BORON; COMPOUND THEREOF - GENERAL Three or more roll up.	
E31-Q01	B element	1986
E31-Q02	B halide, hydride	1986
E31-Q03	B carbide, nitride, metal boride	1986
E31-Q04	B oxide	1986
E31-Q05	B acid	1986
E31-Q06	Alkali metal borate Borate: from B-O acid.	1986
E31-Q07	Other borate Borate: from B-O acid.	1986
E31-Q08	Other B compound Borate: from B-O acid. BF4- is coded E31-Q02.	1986

E31-U	INORGANIC NANOSTRUCTURES Used in conjunction with E3* codes	2005
E31-U01	Nanoparticles, nanospheres	2006
E31-U02	Nanotubes, nanorods, nanowires Includes nanowhiskers.	2006
E31-U03	Nanofilms Includes nanobelt, nanoribbon, nanoplate.	2006
E31-U04	Other nano-forms (e.g. nano-buds, nano-horns) Includes nano-clusters and nano-capsules.	2011
E31-V	QUANTUM DOTS OR QUANTUM CLUSTERS 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
E32-A	AMMONIA, OR AMMONIUM COMPOUND - GENERAL
E32-A01	NH ₃ production 1986
E32-A02	NH ₃ use 1986
E32-A03	NH ₄ ⁺ compound production 1986
E32-A04	NH ₄ ⁺ compound use 1986
E32-A05	other compound 1986
E32-B	CYANOGEN AND DERIVATIVES Includes all metal cyanides, (thio)cyanates and cyanamides. N.B. has priority over E33, 34, 35.

E33 ALKALI METAL COMPOUNDS

E33	General
E33-A	OXIDE OR HYDROXIDE OF SODIUM/POTASSIUM (NA/K) - GENERAL
E33-A01	Sodium/potassium (Na/K) hydroxide production by electrical means 1986
E33-A02	Sodium/potassium (Na/K) hydroxide production by other means 1986
E33-A03	Sodium/potassium (Na/K) hydroxide use 1986
E33-A04	Sodium/potassium (Na/K) oxide 1986
E33-B	HALIDE OF SODIUM/POTASSIUM (NA/K)
E33-C	SULFATE OR SULFITE OF SODIUM/POTASSIUM (NA/K) Includes hydrogen sulfate/hydrogen sulfite.
E33-D	CARBONATE OF SODIUM/POTASSIUM (NA/K) Includes hydrogencarbonate
E33-E	NITRATE OF SODIUM/POTASSIUM (NA/K)
E33-F	OTHER COMPOUND OF SODIUM/POTASSIUM (NA/K)
E33-G	LITHIUM (LI) COMPOUND
E33-H	RUBIDIUM (RB) OR CESIUM (CS) COMPOUND
E33-S	GENERAL SODIUM/POTASSIUM (NA/K) SALT <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 sulphide (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 sulphide (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 ₂) production	1986
E35-K02	. Titanium dioxide (TiO ₂) 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**

F01-A	MECHANICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FIBRES OR FILAMENTS	
F01-A01	Of animal fibres Including cocoon handling and unwinding.	
F01-A02	Of vegetable fibres Including scutching, ginning.	
F01-A03	Of mineral fibres Prior to 1971 no specific code was available.	1971
F01-B	CHEMICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FILAMENTS OR FIBRES FOR SPINNING	
F01-B01	Of animal fibres Including carbonising rags to recover fibres.	
F01-B02	Of vegetable fibres Including retting.	
F01-C	MECHANICAL METHODS AND EQUIPMENT IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS	
F01-C01	Equipment Including spinnerettes, die plates, manifolds and distributors, pumps.	
F01-C02	Dry spinning (evaporative)	1970-1993
F01-C03	Melt spinning	1970-1993
F01-C04	Wet spinning (coagulative)	1970-1993
F01-C05	Fibrillation	
F01-C06	Drawing Including draw texturing (with F01- H04+). Prior to 1971 see F01-C.	1971
F01-C07	Other fibre production (other than by spinning or fibrillation) Including emulsion spinning, centrifugal spinning, flash extrusion of plexifilaments and glass fibre production. Prior to 1971 see F01-C.	1972

F01-C07A	. Melt blowing <i>Previous code(s): F01-C07</i>	1994
F01-C07B	. Flash extrusion <i>Previous code(s): F01-C07</i>	1994
F01-C07C	. Fibrid production <i>Previous code(s): F01-C07</i>	1994
F01-C07D	. Synthetic pulp production <i>Previous code(s): F01-C07</i>	1994
F01-C07E	. Glass fibre production <i>Previous code(s): F01-C07</i>	1994
F01-C08	Spinning general <i>Previous code(s): F01-C+</i>	1994
F01-C08A	. Dry spinning <i>Previous code(s): F01-C02</i>	1994
F01-C08B	. Melt spinning <i>Previous code(s): F01-C03</i>	1994
F01-C08B1	.. High speed <i>Previous code(s): F01-C03</i>	1994
F01-C08C	. Wet spinning (coagulative) Includes Dry-Wet spinning. <i>Previous code(s): F01-C04</i>	1994
F01-C	Others e.g. cooling, quenching, freezing, annealing of extruded filaments.	
F01-D	CHEMICAL FEATURES IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS Including polymer production or chemical modification; chemical structure of polymers and additives used in bulk of polymer.	
F01-D01	Cellulose ester fibres e.g. cellulose (di-,tri-) acetate.	
F01-D02	Acrylic and modacrylic fibres i.e. acrylonitrile or methacrylonitrile (co)polymers. For acrylic ester polymers see F01-D08.	
F01-D03	Polyamide fibres, nylons Including nylon 6 (poly- caproamide); nylon 6:6; aromatic polyamides (aramids); polyesteramides (with F01- D04).	

F01-D03A	<ul style="list-style-type: none"> Wholly aliphatic polyamides <i>Previous code(s): F01-D03</i> 	1994	F01-D10	Other fibres Including fluorocarbon, phenoplast, proteinaceous.	
F01-D03B	<ul style="list-style-type: none"> Aromatic polyamides Includes aromatic polyamides containing aliphatic groups. <i>Previous code(s): F01-D03</i> 	1994	F01-D	Chemical features in general e.g. additions to spinning solutions or melts.	
F01-D04	Polyester, polycarbonate fibres Including polybutylene terephthalate (PBT); linear polyesters; polyesteramides (with F01-D03); polyetheresters (with F01-D10). For polyethylene terephthalate see F01-D04A.		F01-E	PHYSICAL CHARACTERISTICS OF FIBRES	
F01-D04A	<ul style="list-style-type: none"> Polyethylene terephthalate (PET) <i>Previous code(s): F01-D04</i> 	1994	F01-E01	Conjugate, general Including sea-island, side-by-side, sheath-core.	
F01-D05	Polyolefin fibres Including polyethylene, polypropylene.		F01-E01A	<ul style="list-style-type: none"> Crimped conjugate Prior to 1970 see F01-E01. 	1972
F01-D06	Regenerated cellulose, rayon, polynosic fibres		F01-E02	Non-circular, tapered Including trilobal, lobed, thick and thin (variable denier) and plexifilaments.	
F01-D06A	<ul style="list-style-type: none"> By viscose process <i>Previous code(s): F01-D06</i> 	1994	F01-E03	Hollow	
F01-D06B	<ul style="list-style-type: none"> By cuprammonium process <i>Previous code(s): F1-D06</i> 	1994	F01-E04	Textured Excluding F01-E01A; e.g. crimped, bulked.	
F01-D06C	<ul style="list-style-type: none"> By other specific process <i>Previous code(s): F01-D06</i> 	1994	F01-E05	Monofilament <i>Previous code(s): F01-E</i>	1994
F01-D07	Polyurethane fibres e.g. spandex, Lycra [®]		F01-E06	Microdenier yarns <i>Previous code(s): F01-E</i>	1994
F01-D08	Vinyl fibres Including polyvinyl chloride (PVC), polyvinyl alcohol; excluding fluorine containing resins for which see F01-D10.		F01-E07	Mixed filament yarns Core-sheath yarns. <i>Previous code(s): F01-E</i>	1994
F01-D09	Inorganic and metallic; asbestos		F01-E08	Variable denier yarns <i>Previous code(s): F01-E</i>	1994
F01-D09A	<ul style="list-style-type: none"> Carbon; graphite fibres To be searched for the production of these fibres. 	1971	F01-E09	Staple yarn/fibres <i>Previous code(s): F01-E</i>	1994
F01-D09A1	<ul style="list-style-type: none"> Derived from pitch <i>Previous code(s): F01-D09A</i> 	1994	F01-E09A	<ul style="list-style-type: none"> Fibrefill (batts, fibreballs, clusters) <i>Previous code(s): F01-E</i> 	1994
F01-D09A2	<ul style="list-style-type: none"> Derived from polyacrylonitrile (co)polymers 	1994	F01-E	Others Including slub yarn, knop yarn, nub yarn, sewing threads (with F02-F01). For spandex see F01-D07.	
F01-D09A3	<ul style="list-style-type: none"> Derived from other specific precursor(s) <i>Previous code(s): F01-D09A</i> 	1994	F01-F	PRELIMINARY TREATMENT OF FIBRES e.g. for spinning.	
F01-D09B	<ul style="list-style-type: none"> Glass fibres Prior to 1970 see F01-D09 	1971	F01-F01	Carding, combing, hackling Prior to 1971 see F01-F.	1971
			F01-F02	Drafting, sliver drawing Prior to 1971 see F01-F.	1971

F01-F03	Opening, bale breaking Prior to 1972 see F01-F.	1972	F01-H03D	. Package formation, winding, coiling Prior to 1972 see F01-H03.	1972
F01-F04	Feeding of slivers <i>Previous code(s): F01-F</i>	1994	F01-H03D1	.. Transfer tails <i>Previous code(s): F01-H03D</i>	1994
F01-F	Other preliminary treatment e.g. blending, stapling.		F01-H03D2	.. Thread traversing guides <i>Previous code(s): F01-H03D</i>	1994
F01-G	SPINNING PROCESSES AND EQUIPMENT		F01-H03E	. Waste removal from cores <i>Previous code(s): F01-H03</i>	1994
F01-G00G	General spinning and equipment Indexed for generic and unspecified cases. <i>Previous code(s): F01-G</i>	1994	F01-H04	Crimping, curling, texturing, bulking	
F01-G01	Ring spinning		F01-H04A	. Stuffer-box crimping	
F01-G02	Ringless spinning e.g. flyer, cap, mule.		F01-H04B	. False twisting	
F01-G03	Converter processing		F01-H04C	. Other crimping or curling e.g. knit-deknit (with F02-B03+); gear wheel processes.	
F01-G04	Automated spinning systems		F01-H04C1	.. Yarns textured by drawing only <i>Previous code(s): F01-H04C</i>	1994
F01-G05	Open-end spinning, break spinning Prior to 1972 see F01-G.	1972	F01-H04C2	.. Jet crimping <i>Previous code(s): F01-H04C</i>	1994
F01-G	Others Including electrostatic.		F01-H05	Heat treatment, setting, conditioning, shrinking, relaxing, annealing Including crimp development with heating (with F01-H04+).	
F01-H	MECHANICAL FINISHING OF FIBRES, FILAMENTS, THREADS, YARNS OR ROPES		F01-H06	Finishing or dressing of fibres, general Including lubrication, spin finishes.	
F01-H01	Twisting, false twisting, plying, cabling, doubling, stranding Including in production of ropes and cables.		F01-H06A	. Sizing of fibres Prior to 1972 see F01-H06.	1972
F01-H02	Entangling, intermingling, interlacing, differential turbulence and other 'zero twist' processes e.g. air jet.		F01-H06B	. Increasing adhesion of fibres to bulk materials e.g. resins, concrete. Prior to 1986 see F01-H06 in conjunction with F03-D.	1986
F01-H03	Winding, reeling, packaging		F01-H07	Thread guides <i>Previous code(s): F01-H03</i>	1994
F01-H03A	. Bobbins, sleeves, tubes, cops, cartons Prior to 1971 see F01-H03.	1971	F01-H08	Tension devices <i>Previous code(s): F01-H</i>	1994
F01-H03B	. Break detection, end joining, length metering e.g. knotting, splicing. Prior to 1971 see F01-H03.	1971	F01-H09	Yarn cleaners <i>Previous code(s): F01-H</i>	1994
F01-H03C	. Bobbin and cop handling e.g. doffing, donning, aligning, transporting. Prior to 1971 see F01-H03.	1971	F01-H	Others Including testing and identification of fibres and filaments.	

F01-J	OTHER FIBROUS FORMS	1994
F01-J01	Fibrids	1994
F01-J02	Synthetic pulps	1994
F01-J	Other fibrous forms	1994

F02 FABRICS AND THEIR PRODUCTION

F02-A	WEAVING	
F02-A01	Warping, beaming, leasing, let-off	
F02-A02	Shedding mechanisms; patterns (cards, designing); dobby, jacquard systems, healds, heddles	
F02-A03	Woven fabrics	
F02-A03A	. Of specified application Including carpets. Prior to 1972 see F02-A03.	1972
F02-A04	Methods of weaving, looms	
F02-A04A	. Conventional	
F02-A04B	. Shuttleless e.g. water jet, air jet, rapier, weft gripper looms.	
F02-A05	Auxiliary weaving apparatus, weavers' tools, shuttles Prior to 1971 see F02-A04.	1971
F02-B	KNITTING	
F02-B01	Patterns (cards, designing); control mechanisms	
F02-B02	Knit fabrics Including throw rugs.	
F02-B03	Methods of knitting; knitting machines	
F02-B03A	. Warp knitting	
F02-B03B	. Weft knitting	
F02-B04	Accessories for knitting machines Including feed devices, take-off devices. Prior to 1971 see F02-B03.	1971
F02-C	NON-WOVEN FABRICS	
F02-C01	Non-woven fabrics, felts, blankets, battings, waddings, stuffings	
F02-C01A	. Non-woven pile fabrics <i>Previous code(s): F02-C01</i>	1994
F02-C01B1	.. Self-bonded non-woven fabrics <i>Previous code(s): F02-C01</i>	1994
F02-C01B2	.. Self-bonded non-woven fabrics where the binder is of the same composition as the fibre <i>Previous code(s): F02-C01</i>	1994

F02-C01C	. Adhesive bonded non-woven fabric using adhesives or binders 2005
F02-C02	Methods of manufacture; machinery, general Including wet laying; dry laying; spin bonding (with F01-C+).
F02-C02A	. Stitch-bonding
F02-C02B	. Bonding of fibrous webs
F02-C02B1	.. Using an adhesive Prior to 1972 see F02-C02B. 1972
F02-C02C	. Felting
F02-C02D	. Needling, punching
F02-C02E	. Wet laying 2005
F02-C02F	. Spunlacing, hydroentangling 2005
F02-C02G	. Air laying 2005
F02-D	TUFTING AND TUFTED PRODUCTS
F02-D	Tufting and tufted products Including carpets.
F02-E	BRAIDING, LACE, TRIMMINGS, NETS
F02-E01	Braiding, plaiting and manufacture of lace including bobbin; net or carbonised lace; braiding machines; braid lace
F02-E02	Trimmings; ribbons (including typewriter and computer), tapes, bands, narrow fabric; other webbing
F02-E03	Making nets; making knotted carpets or tapestries; macrame; other knotting
F02-F	SEWING, EMBROIDERING
F02-F01	Sewing, general Including sewing threads (with F01-E).
F02-F01A	. Sewing specific goods, general Prior to 1971 see F02-F01. 1971
F02-F01A1	.. Sewing fasteners Including slide fasteners, button (holes). Prior to 1986 see F02-F01A. 1986
F02-F01B	. Sewing accessories, general Prior to 1972 see F02-F01. 1972

F02-F01B1	.. Control devices, programs, microcomputers Prior to 1986 see F02-F01B. 1986
F02-F01B2	.. Feed or removal of cloth or work-pieces, trimming, cutting of threads Prior to 1986 see F02-F01B. 1986
F02-F02	Embroidering
F02-G	PHYSICAL CHARACTERISTICS OF FABRICS 1994
F02-G01	General 1994
F02-G02	Crepe fabrics 1994
F02-G03	Pile fabrics See also non-woven pile fabrics F02-C01A. 1994
F02-G04	Stretch fabrics 1994
F02-G04A	. Due to fibres 1994
F02-G04B	. Due to fabric structure 1994
F02-G	Physical characteristics of fabrics, other 1994

F03 TREATMENT OF FABRIC PRODUCTS

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

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

F03-F02	Animal substrates e.g. silk, wool. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F10	Polyurethane e.g. spandex. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
F03-F03	Vegetable substrates e.g. cotton, linen. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F11	Vinyl e.g. PVC, PVA. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
F03-F04	Cellulose esters Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F12	Inorganic and metallic Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.
F03-F05	Acrylic and modacrylic Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F13	Solvent dyeing, general Prior to 1971 no specific code was available; see codes for appropriate substrate. 1971
F03-F06	Polyamide or Nylon Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F13A	Of cotton, regenerated cellulose Prior to 1971 no specific code was available; see codes for appropriate substrate. 1971
F03-F06A	Azo dyes, water soluble Prior to 1977 see F03-F06. 1977	F03-F13B	Of other substrates Prior to 1971 no specific code was available; see codes for appropriate substrate. 1971
F03-F06B	Azo dyes, water insoluble Prior to 1977 see F03-F06. 1977	F03-F14	After treatment of coloured substrates Prior to 1972 no specific code was available. 1972
F03-F06C	Anthraquinone dyes Prior to 1977 see F03-F06. 1977	F03-F15	Other substrates Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. 1972
F03-F07	Polyester Including polycarbonate. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	F03-F16	Dyes of general application Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. 1972
F03-F07A	Azo dyes, water soluble Prior to 1977 see F03-F07. 1977	F03-F16A	Azo dyes, water soluble Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. 1977
F03-F07B	Azo dyes, water insoluble Prior to 1977 see F03-F07. 1977	F03-F16B	Azo dyes, water insoluble Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G. 1977
F03-F07C	Anthraquinone dyes Prior to 1977 see F03-F07. 1977		
F03-F08	Polyolefin Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.		
F03-F09	Regenerated cellulose Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.		

F03-F16C	<p>Anthraquinone dyes Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.</p>	1977	F03-F25	<p>With metal complex dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986
F03-F17	<p>With pigments and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F26	<p>Dyeing/printing using compositions in the form of foams Prior to 1986 see F03-F or F03-G.</p>	1986
F03-F18	<p>With disperse dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F27	<p>Transfer dyeing/printing; sublimation printing Including decalcomanias. Prior to 1986 see F03-G.</p>	1986
F03-F19	<p>With reactive dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F28	<p>Discharge or resist dyeing/printing Prior to 1986 see F03-G.</p>	1986
F03-F20	<p>With direct dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F29	<p>Cop dyeing, cheese dyeing, warp dyeing or printing Prior to 1986 see F03-F or F03-G.</p>	1986
F03-F21	<p>With anionic/acid dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F30	<p>Spin dyeing or bulk dyeing before fibre formation Prior to 1986 see the appropriate substrate code from F03-F+ in conjunction with the appropriate code F01-D+.</p>	1986
F03-F22	<p>With cationic/basic dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F31	<p>Other specific dyeing/printing processes Prior to 1986 see F03-F or F03-G.</p>	1986
F03-F23	<p>With vat/leuco dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F32	<p>Dyeing auxiliaries Excluding dye receptiveness improving agents for which see F03-C06; solvents, dyes. Prior to 1986 no specific code was available.</p>	1986
F03-F24	<p>With sulphur dyes and associated materials/compositions Prior to 1986 no specific code was available; see codes for appropriate substrate.</p>	1986	F03-F33	<p>General dyeing/printing Prior to 1986 see F03-F or F03-G.</p>	1986
			F03-G	PRINTING	
			F03-G	<p>Printing Applied from the start of CPI (1970) to the end of 1985 and was discontinued. From the start of 1986 see F03-F+.</p>	1970-1985
			F03-H	DECORATING TEXTILES, QUILTING	
			F03-H	<p>Decorating textiles; quilting Including metallising.</p>	

F03-J	LAUNDERING, DRY CLEANING	
F03-J01	Washing machines Including (spin)driers. Prior to 1977 see F03-J.	1977
F03-J02	Ironing; smoothing Prior to 1977 see F03-J.	1977
F03-J03	Laundry compositions e.g. detergents. Prior to 1977 see F03-J.	1977
F03-J04	Dry cleaning Prior to 1977 see F03-J.	1977
F03-J	General	
F03-K	OTHER PROCESSES AND EQUIPMENT	
F03-K01	Web handling, rolling, laying, widening Prior to 1971 see F03-K.	1971
F03-K02	Analysis, inspection, testing, identification Prior to 1971 see F03-K.	1971
F03-K03	Cutting, severing <i>Previous code(s): F03-K</i>	1994
F03-K	Others Including marketing, joining fabric lengths, general air conditioning of textile factories.	

F04 TEXTILE APPLICATIONS

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

F04-D	HOME FURNISHINGS	
F04-D01	Sheets, blankets, bed linen	
F04-D02	Table linen, tablecloths	
F04-D03	Draperies and upholstery, curtains	
F04-D04	Carpets	1994
	<i>Previous code(s): F04-D</i>	
F04-D	Home furnishings, general	
	Including towels. Prior to 1971 no specific code was available.	1971
F04-E	INDUSTRIAL FABRICS AND PRODUCTS	
F04-E01	Tyre cord, chafer fabric	
F04-E02	Military	
	Including parachutes, camouflage.	
F04-E03	Automotive	
	Including seats, upholstery.	
F04-E03A	. Airbags	1994
	<i>Previous code(s): F04-E03</i>	
F04-E03B	. Safety belts	1994
	<i>Previous code(s): F04-E03</i>	
F04-E03C	. Seats, upholstery	1994
	<i>Previous code(s): F04-E03</i>	
F04-E04	Surgical and medical products	
	Including prostheses, sutures, dialysis, bandages, dressings.	
F04-E05	Filter material, general	
	Including cigarette filters. Prior to 1971 see F04-E.	1971
F04-E05A	. Paper making machine felts, belts, Fourdrinier wires	
	Prior to 1986 see F04-E05.	1986
F04-E06	Thermal and acoustic insulation	
	Prior to 1972 see F04-E.	1972
F04-E07	Belts	
	Prior to 1972 see F04-E.	1972
F04-E	Others	
	Including hose and ion-exchange fibres.	

F04-F	FABRICATION OF FABRIC PRODUCTS	
F04-F01	Cutting fabric and other processes in making clothes	
	Including hats, slide fasteners, button holes.	
F04-F02	Manufacturing footwear	
F04-F03	Manufacturing other fabric products	
F04-F04	Labelling, packaging	
F04-G	PRODUCTS MADE OF FIBRES OTHER THAN FABRICS	
F04-G01	Optical fibres, cables	
	For structures of fibres see F01-E01. Prior to 1986 see F04-G in conjunction with F01-E01.	1986
F04-G	Others	
	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

F05-A	PAPER MAKING, CELLULOSE, FIBRE-BOARD
F05-A01	Fibrous raw material (and mechanical treatment)
F05-A02	Production of cellulose by removing non-cellulosic substances
F05-A02A	<ul style="list-style-type: none"> Pretreatment before digesting; pulping Prior to 1971 see F05-A02.
	1971
F05-A02B	<ul style="list-style-type: none"> Pulp after-treatment, working up waste paper, other processes, bleaching of pulp Prior to 1971 see F05-A02.
	1971
F05-A02C	<ul style="list-style-type: none"> Regeneration of pulp liquors, use of residues, treatment of waste water Prior to 1971 see F05-A02.
	1971
F05-A03	Treatment of digested materials before passing to the paper-making machine; adding substances to the web on the machine Including methods of beating; mechanical purification, screening.
F05-A04	Paper-making and machines
F05-A04A	<ul style="list-style-type: none"> Wet end of machines, general Including head boxes. Prior to 1971 see F05-A04.
	1971
F05-A04B	<ul style="list-style-type: none"> Wet end, dewatering Prior to 1971 see F05-A04.
	1971
F05-A04C	<ul style="list-style-type: none"> Transfer wet to press, press section, drier section, other machine details Prior to 1971 see F05-A04.
	1971
F05-A04D	<ul style="list-style-type: none"> Complete machines, processes for making paper, cardboard e.g. corrugated, blotting. Prior to 1971 see F05-A04.
	1971
F05-A04E	<ul style="list-style-type: none"> Sterilization and cleaning of equipment Including general air conditioning of paper factories, dust removal etc.
	2005
F05-A05	Calenders, doctors, accessories for paper making machines; testing paper; winding up paper

F05-A05A	<ul style="list-style-type: none"> Testing paper Including equipment.
	2005
F05-A05B	<ul style="list-style-type: none"> Embossing, stamping and forming Including equipment.
	2005
F05-A06	Cardboard, paper manufacture not covered elsewhere; paper compositions and auxiliary materials; special paper or cardboard types Including those prepared from basically non-cellulosic compositions
F05-A06A	<ul style="list-style-type: none"> Multiply materials Including corrugated cardboard. Prior to 1971 see F05-A06.
	1971
F05-A06A1	<ul style="list-style-type: none"> Corrugated cardboard/paper
	2005
F05-A06A2	<ul style="list-style-type: none"> Multiply tissue and wipes
	2005
F05-A06B	<ul style="list-style-type: none"> Paper, cardboard by applying coatings Including adhesives and surface sizing. Prior to 1971 see F05-A06.
	1971
F05-A06C	<ul style="list-style-type: none"> Paper, cardboard by adding polymers, resins Prior to 1971 see F05-A06.
	1971
F05-A06D	<ul style="list-style-type: none"> Paper, cardboard by adding (in)organic compounds Including dyes and optical brighteners. Prior to 1971 see F05-A06.
	1971
F05-A06E	<ul style="list-style-type: none"> Cardboard or paper prepared from basically non-cellulosic compositions Prior to 1986 see F05-A06.
	1986
F05-A07	Fibreboard, chipboard, manufacture of articles from fibrous cellulosic suspensions or papier-mache e.g. disposable diapers.
F05-B	PRESERVATION AND TREATMENT OF WOOD
F05-B01	Preservation Including fungicide, insecticide, germicide. Prior to 1971 no specific code was available.
	1971
F05-B	Plywood; other treatment Including staining, dyeing, bleaching, drying, flame proofing. Prior to 1971 no specific code was available.
	1971

**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

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

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

G02 COATINGS, PAINTS, INKS, NATURAL RESINS, POLISHES

G02-A	PAINTS, VARNISHES, LACQUERS, INKS, PENCIL LEADS, CRAYONS, OTHER COATINGS
G02-A01	Paints, varnishes, lacquers based on inorganic film formers
G02-A01A	. Silicone based Prior to 1972 see G02-A01. 1972
G02-A02	Paints, varnishes, lacquers based on organic film formers
G02-A02A	. Natural polymers
G02-A02B	. Synthetic polymers, general Excluding silicone polymers, for which see G02-A01A.
G02-A02B1	.. Addition polymer based paint Indexed for the generic case. 1994 <i>Previous code(s): G02-A02C, G02- A02D</i>
G02-A02B2	.. Condensation polymer based paint Indexed for the generic case. 1994 <i>Previous code(s): G02-A02B</i>
G02-A02C	. Acrylics, general Prior to 1972 see G02-A02B. 1972
G02-A02C1	.. Containing epoxy groups Prior to 1977 see G02-A02C. 1977
G02-A02C2	.. Hydroxyalkyl acrylates Prior to 1977 see G02-A02C. 1977
G02-A02C3	.. Aminoalkyl acrylates Prior to 1977 see G02-A02C. 1977
G02-A02C4	.. Acrylic nitriles, acids, amides, di- and polyacrylates Excluding acrylated resins, for which see the appropriate unmodified resin. Prior to 1986 see G02-A02C. 1986
G02-A02D	. Other vinyls and addition polymers Prior to 1972 see G02-A02B. 1972
G02-A02D1	.. From diene or polyene monomers Excluding di- and poly- acrylates, for which see G02-A02C4. Prior to 1977 see G02-A02D. 1977

G02-A02D2	.. Vinyl halide polymers Prior to 1977 see G02-A02D. 1977
G02-A02D3	.. From vinyl carboxylates or unsaturated acids other than acrylics Or derivatives e.g. anhydride or ester. Prior to 1977 see G02-A02D. 1977
G02-A02D4	.. Polymers from other unsaturated aromatics e.g. styrenes. Prior to 1977 see G02- A02D. 1977
G02-A02E	. Polyesters Including alkyds. Prior to 1972 see G02-A02B. 1972
G02-A02F	. Phenoplasts, aminoplasts Prior to 1972 see G02-A02B. 1972
G02-A02G	. Epoxy resins. Prior to 1972 see G02-A02B. 1972
G02-A02H	. Polyurethanes Prior to 1972 see G02-A02B. 1972
G02-A03	Additives for paints, varnishes, lacquers
G02-A03A	. Organic pigment Prior to 1972 see G02-A03. 1972
G02-A03B	. Antifouling additives Prior to 1977 see G02-A03. 1977
G02-A03C	. Paint and ink removers, correcting fluids Prior to 1977 see G02-A03. 1977
G02-A03D	. Inorganic pigment for paint <i>Previous code(s): G02-A03</i> 1994
G02-A04	Printing and writing inks; pencil leads, crayons, general
G02-A04A	. Inks Prior to 1977 see G02-A04. 1977
G02-A04B	. Dyes and pigments for inks, crayons Prior to 1977 see G02-A04. 1977
G02-A05	Other coating compositions Prior to 1971 no specific code was available. 1971

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

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.

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

G03-B04

**Adhesive compositions in the form of
film or foils; adhesive tape**
e.g. on carriers.

G04 MISCELLANEOUS COMPOSITIONS AND APPLICATIONS

G04-A	LUMINESCENT OR TENEBRESCENT MATERIALS	
G04-A01	Photochromic or tenebrescent materials	1994
	<i>Previous code(s): G04-A</i>	
G04-A	Luminescent materials; phosphor compositions	
G04-B	OTHER COMPOSITIONS, USES IN OTHER PROCESSES	
G04-B01	Materials for heat transfer or for producing differences in temperature other than by combustion; antifreeze e.g. by change in physical state.	
G04-B01A	. Halogen containing refrigerants Prior to 2008 see G04-B01.	2008
G04-B01A1	.. Refrigerants containing fluorine as the only halogen Prior to 2008 see G04-B01.	2008
G04-B01A2	.. Refrigerants containing both fluorine and chlorine Prior to 2008 see G04-B01.	2008
G04-B01A3	.. Fluoroether refrigerants Prior to 2008 see G04-B01.	2008
G04-B01B	. Hydrocarbon refrigerants Prior to 2008 see G04-B01.	2008
G04-B01C	. CO₂ as refrigerant Prior to 2008 see G04-B01.	2008
G04-B01E	. Other specific chemicals as refrigerants Prior to 2008 see G04-B01.	2008
G04-B01F	. Refrigerant compositions or blends containing 2 or more refrigerants Prior to 2008 see G04-B01.	2008
G04-B02	Materials for sealing and packing joints or covers	
G04-B03	Antistatic Other than in Section A and G06-A03.	

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

G05 PRINTING

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

G06 PHOTOGRAPHIC MATERIALS AND PROCESSES

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

G06-B	SUPPORTS	G06-C14	Elements with several (electro)- photographically active layers e.g. multilayer colour-sensitive systems, or multilayer electro-photographic systems. Prior to 1986 no specific code was available.
G06-B01	Polymeric		1986
G06-B02	Paper	G06-C14A	. Red sensitive layer Prior to 1986 no specific code was available.
G06-B03	Metal		1986
G06-B	Other supports e.g. glass.	G06-C14B	. Blue sensitive layer Prior to 1986 no specific code was available.
			1986
G06-C	PHOTOSENSITIVE SYSTEMS BY TYPE	G06-C14C	. Green sensitive layer Prior to 1986 no specific code was available.
G06-C01	Photosensitive layers having an incorporated coupler		1986
G06-C02	Kodachrome type colour materials i.e. soluble coupler reacts with oxidised developer to form insoluble dye.	G06-C15	Releasing photographically active components on processing, other than dyestuffs Prior to 1986 no specific code was available for this concept. See the codes for the individual active components released.
G06-C03	Dye destruction colour materials e.g. silver dye bleach materials.		1986
G06-C04	Electrophotographic colour materials	G06-C16	Microencapsulated photosensitive systems
G06-C05	Direct positive materials		1994
G06-C06	Print-out materials Including ablative systems.	G06-C	Other systems and materials Including vesicular; systems with light induced adhesiveness developed by toning.
G06-C07	Photodevelopable or direct-print materials		
G06-C08	Heat developable, photosensitive materials	G06-D	APPLICATIONS
G06-C09	Multicolour diffusion transfer materials	G06-D01	X-ray materials
G06-C09A	. Multicolour dye release diffusion transfer materials 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.	G06-D02	Lithographic films, papers (high contrast)
	1986	G06-D03	Direct electron recording
G06-C10	Single colour diffusion transfer materials	G06-D04	Photoresists Excluding G06-D05+, G06-D06.
G06-C10A	. Single colour dye release diffusion transfer materials 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.	G06-D05	Production of printing plates Prior to 1971 see G06-D.
	1986	G06-D05A	. Electrophotographically Prior to 1986 see G06-D05.
G06-C11	Colloid transfer materials		1986
G06-C12	Imbibition dye transfer systems	G06-D06	Production of electrical elements Prior to 1971 see G06-D.
G06-C13	Additive colour systems		1971
		G06-D06A	. Circuits and circuit components e.g. semiconductors
			2005

G06-D06B	<ul style="list-style-type: none"> Optoelectronic e.g. LCD, optical filters, wave guides. 2005
G06-D07	Optical storage media Including optical discs, laser recording discs and magneto-optical discs. Prior to 1986 see G06-D. 1986
G06-D	Other applications Including microfilms, cine-sound tracks, identity cards; holograms (with G06-E).
G06-E	SPECIAL TECHNIQUES
G06-E01	Screening (half tones)
G06-E02	Masking
G06-E03	In-camera processing Including integral film packs, e.g. 'Polaroid'®.
G06-E04	Coating
G06-E05	Drying Including during manufacture.
G06-E	Other Including holograms (with G06-D); silver recovery; packaging of photographic materials.
G06-F	RADIATION SENSITIVE SYSTEMS i.e. element in systems.
G06-F01	Silver halide
G06-F01A	<ul style="list-style-type: none"> Silver halide tabular grain emulsion Previous code(s): G06-F01 1994
G06-F01B	<ul style="list-style-type: none"> Silver halide core-shell emulsion Previous code(s): G06-F01 1994
G06-F02	Diazo
G06-F03	Polymeric
G06-F03A	<ul style="list-style-type: none"> Photoconductors Prior to 1977 see G06-F03 in conjunction with G06-F06. 1977
G06-F03B	<ul style="list-style-type: none"> Radiation-sensitive composition containing monomer Prior to 1977 see G06-F03. 1977
G06-F03C	<ul style="list-style-type: none"> Radiation-sensitive composition containing polymer Prior to 1977 see G06-F03. 1977

G06-F03D	<ul style="list-style-type: none"> Additives e.g. photosensitisers. Prior to 1977 see G06-F03. 1977
G06-F04	Non-silver metals and their compounds
G06-F05	Radiation-sensitive dyes
G06-F06	Organic photoconductors, charge generators, charge transport materials
G06-F07	Inorganic photoconductors, charge generators, charge transport materials
G06-F07A	<ul style="list-style-type: none"> ZnO or Selenium Including Selenium alloys or compounds. Prior to 1972 see G06-F07. 1972
G06-F08	Heat sensitive Including thermographic and infra-red systems.
G06-F08A	<ul style="list-style-type: none"> Containing novel active materials Such as (leuco) dyes, couplers, chromogenic compounds (colour formers), electron donors, electron acceptors. Prior to 1986 see G06-F08. 1986
G06-F	Others Including silver salts other than halide.
G06-G	PROCESSING AGENTS AND STEPS Black and white silver halide processing.
G06-G01	Developing
G06-G02	Fixing
G06-G03	Stabilisation processing
G06-G04	Other processing steps Electrophotographic
G06-G05	Dry toning
G06-G05A	<ul style="list-style-type: none"> Dry toning composition 2005
G06-G05B	<ul style="list-style-type: none"> Substrates for electrophotographic printing 2005
G06-G06	Liquid toning
G06-G07	Charging
G06-G08	Other processing steps

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

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

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

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

H01-B06C	. Drilling fluid additives	1994	H01-C	Unclassified	197031
H01-B07	Fishing and retrieval tools		H01-D	PRODUCING	
H01-B08	Testing operations and equipment, general	1986	H01-D01	Oil-lifting equipment	
H01-B	Unclassified		H01-D02	Gas-lifting equipment	
H01-C	WELL COMPLETION, STIMULATING, AND SERVICING		H01-D03	Pumps	
H01-C01	Casing and tubing excluding well packers, general		H01-D04	Separators	
H01-C01A	. Well packers	1986	H01-D05	Marine production equipment	
H01-C01B	. Joining of casing Includes of formation of joints and lateral wellbore sections	2005	H01-D06	Water flooding, general	
H01-C02	Cementing Includes plastering.		H01-D06A	. Brine flooding	1986
H01-C02A	. Methods and equipment	1986	H01-D06B	. Steam flooding	1986
H01-C02B	. Cement compositions	1986	H01-D06C	. CO2 flooding	1994
H01-C03	Fracturing; Fracking		H01-D06D	. Polymer flooding	2002
H01-C04	Acidising		H01-D06E	. Alkaline flooding	2002
H01-C05	Perforating		H01-D07	Repressuring	
H01-C06	Wellhead equipment, general		H01-D08	Thermal methods E.g. steam injection, microwaves, etc.	
H01-C06A	. Blowout preventers	1986	H01-D09	Chemical methods	
H01-C07	Screens and liners		H01-D10	Oil shale treatment and equipment	
H01-C08	Gravel packing		H01-D11	Tar sands treatment and equipment E.g. bitumen extraction	
H01-C09	Consolidation of incompetent formations	197031	H01-D12	Testing, control operations and equipment, general	1986
H01-C10	Servicing E.g. cleaning deposits	197031	H01-D13	Methods using bacteria	1994
H01-C11	Testing, control operations and equipment, general	1986	H01-D14	Water control methods For compositions, see H01-C12	2005
H01-C12	Water control compositions For methods, see H01-D14	2005	H01-D	Unclassified	
H01-C13	Cutting or destroying of packers, pipes, plugs, etc. Includes reconditioning of well casings, cutting and destroying of damaged pipes, windows, etc.	2012	H01-E	TREATING AND TESTING Does not include well treatment procedures already covered in H01-C:	
H01-C14	Lost circulation control/materials	2012	H01-E01	Emulsion breaking, desalting and dehydrating	
			H01-E02	Corrosion inhibiting	
			H01-E03	Testing crude oils	2005
			H01-E04	Water Treatment Includes composition e.g. anti-sludging agent, and apparatus	2010

H01-E05	Scale Inhibition	2010
H01-E	Unclassified	
H01-F	NATURAL GAS	
H01-F01	Field treatment and processing	197031
H01-F02	Liquefaction methods and equipment	197031
H01-F	Unclassified	197031
H01-G	EXTINGUISHING OIL WELL FIRES	1994
H01-G01	Explosives	1994
H01-G02	Capping	1994
H01-G03	Flame retardant materials	2011
H01-G	General	1994
H01-H	WELL KILLING	2010
H01-H	General	2010
H01-P	OIL AND GAS WELL PIPES Includes pipes used during well drilling, completion and production	2010
H01-P	General	2010
H01-R	DEPLETED OIL/GAS FIELDS	2010
H01-R	General	2010
H01-X	OTHER	2010
H01-X	General Includes well tractors and protective clothing	2010

H02 UNIT OPERATIONS

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

H03 TRANSPORTATION AND STORAGE

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

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

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

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

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

H05 REFINERY ENGINEERING

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

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

H06 GASEOUS AND LIQUID FUELS

H06-A	GASEOUS FUELS	
H06-A01	(Liquefied) petroleum gases	
H06-A02	(Liquefied) natural gas	
H06-A03	Hydrogen	2002
H06-A04	Biofuel gases E.g. methane production by digestion or fermentation of e.g. waste organic materials	2002
H06-A05	Synthesis gas	2010
H06-A	Unclassified	197031
H06-B	LIQUID FUELS	
H06-B01	Gasoline	
H06-B02	Kerosene	
H06-B03	Jet fuels	
H06-B04	Diesel fuels	
H06-B04A	. Biodiesel Covers any Diesel fuel containing components manufactured from vegetable oils of e.g. waste organic materials	2005
H06-B05	Heating oils and fuel oils	
H06-B06	Liquid fuels derived from waste polymer material	2002
H06-B07	Other liquid biofuels Any liquid fuels produced biologically other than biodiesel and alcohol	2005
H06-B08	Alcohol fuels Includes ethanol/methanol and alcohol- based fuels e.g. as used in Brazil	2005
H06-B09	Emulsion fuels	2006
H06-B	Unclassified	197031
H06-C	POLLUTION CONTROL	
H06-C01	Air	197031
H06-C01A	. Catalytic	
H06-C01B	. Non-catalytic	2006

H06-C02	Water	197031
H06-C03	I.C. engine, catalytic	1975
H06-C03A	. Oxidation of CO, NO and hydrocarbons	1975
H06-C03B	. Reduction of N oxides	1975
H06-C03B1	.. Selective Catalytic Reduction (SCR) Injection of small amounts of urea and water into hot i.c. engine exhaust gas to reduce NOX production	2007
H06-C03C	. Sulfur oxides	2006
H06-C04	I.C. engine, non-catalytic	1975
H06-C04A	. By filtration Includes filter regeneration	2005
H06-C04B	. By centrifugal force Includes particle separation by inertial mass. See also X25-H06 for electrical details of centrifugal separator	2011
H06-C04C	. By electrostatic precipitation	2012
H06-C05	Detection, control and measurement of I.C. engine exhaust gases	2002
H06-C06	Testing, controlling and monitoring of exhaust treatment devices Includes measuring, testing, controlling and monitoring of filters, catalysts, etc.	2012
H06-C	Unclassified	197031
H06-D	ADDITIVES	
H06-D01	Antioxidants, stabilisers	1986
H06-D02	Corrosion and rust inhibitors	1986
H06-D03	Anti-icing agents, detergents, dispersants Includes surfactants	1986
H06-D04	Anti-knocking agents, combustion efficiency improvers	1986

H06-D05	Cloud/pour point depressants, fluidity improvers Includes additives for decreasing cold filter plugging point	1986
H06-D06	Friction reducing and antiwear agents	1986
H06-D07	Other specified, but unclassified functions	1986
H06-D08	Biocidal Includes anti-slime compounds	2005
H06-D	Multifunctional and general	1986
H06-E	TESTING FUELS (GASEOUS OR LIQUID)	1994
H06-E	General	1994
H06-F	MARKING FUELS	1994
H06-F	General	1994
H06-P	FUEL PREPARATION Includes manufacturing techniques/apparatus of liquid and gaseous fuels. Includes fuel additive production.	2012
H06-P	General Includes manufacturing techniques/apparatus of liquid and gaseous fuels	2012
H06-X	OTHER FUEL ASPECTS	2006
H06-X01	Treatment of fuels Includes processes such as chemical, electrical and magnetic treatments as well as irradiation. For fuel separation, see H06-X02.	2006
H06-X02	Separation of fuels e.g. removal of gaseous/liquid fuel from a mixture.	2012
H06-X03	Recycling/regeneration of fuels	2015
H06-X	General	2006

H07 LUBRICANTS AND LUBRICATION

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

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

H08 OTHER PETROLEUM PRODUCTS

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

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

H09 FUELS NOT OF PETROLEUM ORIGIN

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

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

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

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

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

J01-E02B1	.. Molecular sieves Includes zeolites	2006	J01-E03C2	.. Metal-organic frameworks	2006
J01-E02B2	.. Metal-organic frameworks	2006	J01-E03C3	.. Activated carbon	2013
J01-E02B3	.. Activated carbon	2013	J01-E03D	. By pressure swing adsorption Includes vacuum swing adsorption.	1986
J01-E02C	. With membranes or ion exchangers	1977	J01-E03E	. Using semi-permeable membrane	1986
J01-E02C1	.. Ion transport membranes	2005	J01-E03F	. By catalytic methods	1986
J01-E02D	. By catalytic methods	1977	J01-E03G	. Claus plant processes with removal of S	1994
J01-E02E	. Treating waste gases using dry reactive powder e.g. Ca(OH) ₂	1994	J01-E03H	. By biological methods	2005
J01-E02F	. Solid reagent complexing with gas	1994	J01-E03I	. Using UV ray	2012
J01-E02G	. Ammonia	1994	J01-E03J	. Temperature swing adsorption	2013
J01-E02H	. By other means e.g. plasma, bacterial or centrifugal method	1994	J01-E	Unclassified	
J01-E02H1	.. Using plasma	2005	J01-F	SEPARATION OF SUSPENDED PARTICLES FROM LIQUIDS	
J01-E02H2	.. Centrifugal methods	2005	J01-F01	By sedimentation Includes flotation techniques for clarifying liquids, precipitation or flocculation	
J01-E02H3	.. By biological methods	2005	J01-F02	By filtration processes	
J01-E02H4	.. By combustion	2006	J01-F02A	. Gravity filters; filter presses; pressure filters	
J01-E02H5	.. Using ozone	2006	J01-F02B	. Cartridge filters; ultra filters	
J01-E02H6	.. Using UV ray	2012	J01-F02C	. Filters with mobile filter elements Has priority over J01-F02A and -F02B	
J01-E02I	. Treating fuels with additives to reduce evolution of SO _x +NO _x	1994	J01-F02D	. Filtering devices e.g. trivial uses, such as bath tubs or swimming pool filters	
J01-E03	Gas separation, general	1972	J01-F02E	. Filtering of magnetisable materials	1994
J01-E03A	. Gas chromatography	1972	J01-F02E1	.. Filtering of liquids by applying electrical charge	1994
J01-E03B	. By wet scrubbing Includes liquid ad(ab)sorbent preparation and regeneration.	1986	J01-F02X	. For filtration of specific substances May be used with other J01-F codes if specific method is claimed	2006
J01-E03C	. Using ad(ab)sorbents, general Includes preparation and regeneration of ad(ab)sorbents	1986	J01-F02X1	.. Water	2006
J01-E03C1	.. Molecular sieves Includes zeolites	2006	J01-F02X2	.. Blood	2006
			J01-F02X3	.. Oil Includes lubricants	2006

J01-F02X4	.. Fuel	2006
J01-F02X5	.. Molten metal	2012
J01-F03	By centrifugal processes	
J01-F04	Dewatering e.g. sludge by compression between belts	1994
J01-F05	Magnetic or electrostatic separation	2011
J01-F	Unclassified	
J01-G	SEPARATION OF DISPERSED PARTICLES FROM GASES/VAPOURS	
J01-G01	Pre-treatment of gas or vapour	
J01-G02	By gravity, inertia, centrifugal force	
J01-G03	By filtration Includes filters making use of electricity and magnetism	
J01-G03A	. Regeneration/cleaning of filters	1977
J01-G03B	. Especially designed for waste gases	1977
J01-G03C	. For air inflow e.g. vehicle air intake, clean room	2006
J01-G04	Electrostatic and magnetic precipitation Includes electrostatic filters	1977
J01-G05	(De)gassing powders and other solids	1972
J01-G06	Wet scrubbing Only for removal of particulates from gas, otherwise consider J01-E02A	2006
J01-G09	Other methods	2006
J01-G	Unclassified	
J01-H	FILTERING MATERIALS	
J01-H01	Regenerating filters	1994
J01-H02	Filtering materials	2005
J01-H02A	. Filter materials for liquids treatment	2005
J01-H02B	. Filter materials for gases treatment	2005

J01-H02C	. With antibacterial effect Replaces J01-H03. All J01-H03 coded documents will be corrected to J01-H02C	2007
J01-H03	With antibacterial effect Replaced by J01-H02C. All J01-H03 coded documents will be corrected to J01-H02C	2005-2006
J01-H	General	
J01-J	SEPARATION OF ISOTOPEs	
J01-J	General	
J01-K	SOLID/SOLID SEPARATION	
J01-K01	Solid separation using liquids, pneumatic tables, jigs	
J01-K02	Magnetic or electrostatic separation	
J01-K03	Flotation; differential sedimentation	
J01-K04	Sieving, screening, etc. (by gas currents). etc.	
J01-K	Unclassified Includes solid-solid separation by leaching	
J01-L	CENTRIFUGAL APPARATUS	
J01-L01	Centrifuges	
J01-L02	Free vortex flow apparatus; cyclones	
J01-L	Unclassified	
J01-X	OTHER SEPARATION PROCESSES AND APPLICATIONS	
J01-X	General and unclassified	
J01-X01	Contaminants and their removal methods e.g. for soil	2006
J01-X01A	. Removal of organic contaminants	2005
J01-X01B	. Removal of inorganic contaminants	2005
J01-X01C	. Removal by biological methods	2005
J01-X02	Separation of racemates	2005

J02 MIXING, CRUSHING, SPRAYING

J02-A	MIXING, DISPERSING ETC.	
J02-A01	Mixing processes	
J02-A02	Mixing apparatus, general	
J02-A02A	. Flow mixers	1972
J02-A02B	. Rotary mixers	1972
J02-A02C	. Mixer accessories	2002
J02-A03	Emulsification/dispersion 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).	
J02-A03A	. Processes 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
J02-A03B	. Apparatus	2006
J02-A03C	. Agents	2006
J02-A	Unclassified	
J02-B	CRUSHING, PULVERISING DISINTEGRATING	
J02-B01	Plant in general	
J02-B02	Processes in general	
J02-B03	Accessories	
J02-B	Unclassified	
J02-C	SPRAYING ATOMISING, APPLYING LIQUIDS TO SURFACES	
J02-C01	Spraying, atomising; nozzles, in general	
J02-C02	Applying (semi-) liquids to surfaces, in general	
J02-C	Unclassified	
J02-X	OTHER MIXING, CRUSHING AND SPRAYING Includes dosing and dispensing devices	
J02-X	Unclassified	

**J03 ELECTROCHEMICAL PROCESSES,
ELECTROPHORESIS**

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

J04 CHEMICAL/PHYSICAL PROCESSES/APPARATUS

J04-A	COLLOID CHEMISTRY, ETC.	
J04-A01	Catalysis processes and apparatus Use J04-E+ from 197701	1970-1976
J04-A02	Catalysts Use J04-E+ from 197701	1970-1976
J04-A03	Colloid chemistry For production of nanoparticles (sols) see J04-F02A	
J04-A04	Single crystals	
J04-A05	Granulation, pelleting	
J04-A06	Encapsulation	
J04-A07	Powder coatings For general coatings, consider M13-H if formed on metal, or L02-J03 if involving ceramics.	
J04-A	Unclassified	
J04-B	LABORATORY APPARATUS AND METHODS	
J04-B01	Analytical methods/equipment, general	
J04-B01A	. Spectral Includes techniques such as NMR, ESR and mass spectrometry	1972
J04-B01A1	.. Mass spectrometry	2006
J04-B01A2	.. Optical spectroscopy Includes cellular imaging	2006
J04-B01B	. Specific reactions and reagents	1972
J04-B01B1	.. Sugar e.g. for diabetes monitoring	2005
J04-B01B2	.. For alcohol	2006
J04-B01C	. Chromatography	1977
J04-B01C1	.. Thin Layer Chromatography (TLC) See also S03-E09C3	2005
J04-B01C2	.. High Performance Liquid Chromatography (HPLC) See also S03-E09C5	2005

J04-B01C5	.. Gas Chromatography (GC) See also S03-E09C1	2005
J04-B01C5A	... GC-MS	2006
J04-B01C6	.. Liquid chromatography-mass spectrometry (LC-MS)	2013
J04-B02	Lab-on-chip (LOC) See also S03-H01 codes	2005
J04-B03	Detection and analysis of nucleic acids, proteins and amino acids See also S03-E14H codes	2005
J04-B04	Micro analysis Includes microfluidic analysis. May be used with other J04-B codes, and S03 codes likely	2006
J04-B05	Biosensor See also S03-E03C1	2011
J04-B	Laboratory apparatus, general	
J04-C	TEST, CONTROL AND SAMPLING, INDUSTRIAL AND LABORATORY	
J04-C01	Sampling	
J04-C02	Investigation by properties E.g. determination of pressure, temperature, concentration, pH, etc.	
J04-C02A	. pH Monitoring See also S03-F10 codes	2005
J04-C02B	. Electrical 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
J04-C02C	. Optical e.g. absorption, fluorescence	2006
J04-C02D	. Mechanical properties, e.g. creep resistance	2007
J04-C03	Investigation by method E.g. monitoring of reactions	
J04-C04	Investigation by material	

J04-C04A	<ul style="list-style-type: none"> Gas sensors See also S03-E02, S03-E03, S03-E14P codes 	2005
J04-C	General and unclassified	
J04-D	FLUIDISED BED APPARATUS	1972-2002
J04-D	General Not used from 2002 Wk01; scope is now covered by J04-E07A and J04-X03A	1972-2002
J04-E	CATALYSIS See also J04-A, and N codes for catalysts, catalytic processes and applications	
J04-E01	Catalytic processes	1977
J04-E02	Apparatus for catalytic processes Not used from 2002 Wk01; scope is now covered by J04-(E06-09)	1977-2002
J04-E03	Catalyst supports	1977
J04-E04	Catalysts	1977
J04-E04A	<ul style="list-style-type: none"> Redox 	1977
J04-E04B	<ul style="list-style-type: none"> (De)hydrogenation 	1977
J04-E04C	<ul style="list-style-type: none"> Photocatalysts 	2005
J04-E04D	<ul style="list-style-type: none"> Electrocatalyst e.g. for electrode catalysts, for use in electrolyzer, fuel cell etc. 	2006
J04-E05	Regeneration/recovery Also includes waste or spent catalyst disposal methods/apparatus.	1977
J04-E06	Reactors – general or unclassified	2002
J04-E07	Apparatus for gas phase reactions	2002
J04-E07A	<ul style="list-style-type: none"> Fluidized or moving beds, risers 	2002
J04-E07B	<ul style="list-style-type: none"> Fixed beds 	2002
J04-E07C	<ul style="list-style-type: none"> Tubular, tube bundles 	2002
J04-E08	Apparatus for liquid, gas/liquid processes	2002

J04-E08A	<ul style="list-style-type: none"> Apparatus for homogeneous phases, solutions 	2002
J04-E08B	<ul style="list-style-type: none"> Columns; counter-current reactions 	2002
J04-E08B1	<ul style="list-style-type: none"> Apparatus for reactive or catalytic distillation 	2002
J04-E09	Other apparatus for catalytic processes	2002
J04-E09A	<ul style="list-style-type: none"> Waste treatment apparatus 	2005
J04-E09B	<ul style="list-style-type: none"> For sensor applications 	2006
J04-E09C	<ul style="list-style-type: none"> Photocatalytic apparatus See J04-E04C for photocatalysts per se 	2006
J04-E10	Testing of catalysts and devices	2006
J04-E11	Catalyst production Includes catalyst support production.	2007
J04-E	Unclassified	1977
J04-F	MICROSCALAR PROCESSES	
J04-F01	Microprocesses See J04-X04 for microreactors	2006
J04-F02	Nanostructure production See L02-H04 if carbon is involved	2006
J04-F02A	<ul style="list-style-type: none"> Nanoparticles 	2006
J04-F02A1	<ul style="list-style-type: none"> Composite particles Includes coated particles 	2006
J04-F02B	<ul style="list-style-type: none"> Other regular forms e.g. Nanotubes, nanorods, nanowhiskers 	2006
J04-F02C	<ul style="list-style-type: none"> Nanofilms 	2006
J04-F02D	<ul style="list-style-type: none"> Nanocrystals 	2012
J04-F	Unclassified	
J04-X	OTHER CHEMICAL METHODS Used for all processes and apparatus of chemical interest with no specific application elsewhere in CPI	
J04-X01	Reactors for plasma processes	1994

J04-X02	Forming films by Langmuir-Blodgett processes	1994
J04-X03	Reactors for non-catalytic chemical processes	2002
J04-X03A	. Fluidised bed apparatus	2006
J04-X04	Miniaturised reaction apparatus Includes microfluidic devices, MEMS devices, see also relevant U12-B03F codes for MEMS. See J04-F01 for microprocesses.	2002
J04-X05	Gas generators	2012
J04-X	Unclassified	

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 ₂ /CH ₄ 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

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

J07 REFRIGERATION, ICE, LIQUEFACTION/ SOLIDIFICATION

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

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

J08 HEAT TRANSFER AND DRYING

J08-A	STEAM OR VAPOUR CONDENSERS
J08-A01	Steam or vapour separated from coolant by walls
J08-A02	Steam or vapour comes in direct contact with coolant
J08-A03	Employing combination of above two; other condensers
J08-A04	Combinations of two or more condensers
J08-A05	Auxiliary systems, arrangements or devices
J08-A06	Controlling arrangements especially for condensers
J08-A	General and unclassified
J08-B	DIRECT-CONTACT (NON-INTERACTIVE) HEAT-EXCHANGERS
J08-B01	Direct-contact trickle coolers e.g. cooling towers
J08-B02	Other direct-contact heat-exchange apparatus
J08-B	General and unclassified
J08-C	HEAT-EXCHANGERS WITHOUT DIRECT CONTACT
J08-C01	Having stationary conduit assemblies for one medium only, the media contacting different sides of conduit wall
J08-C02	As above, but stationary conduits for both media
J08-C03	Having moving conduit assemblies
J08-C04	Employing intermediate heat-transfer media or bodies Includes heat pipes
J08-C	General and unclassified
J08-D	HEAT TRANSFER APPARATUS, DETAILS OF GENERAL APPLICATIONS
J08-D01	Elements for heat-exchangers
J08-D02	Preventing deposits or corrosion
J08-D03	Special features
J08-D04	Modifying heat transfer
J08-D05	Control arrangements

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

J08-S	HEAT STORAGE	
J08-S01	Materials	2011
J08-S02	Apparatus	2011
J08-S	General and unclassified	2011

J09 FURNACES, KILNS, OVENS, RETORTS

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

K04-A	EXPLOSIVES (CHEMICAL ASPECTS) Use K04-E+, K04-F+ and K04-G+ from 198601.	1970-1985
K04-A01	Based on inorganic nitrates	1970-1985
K04-A02	Based on (per)chlorates	1970-1985
K04-A03	Sprengel-type	1970-1985
K04-A04	Manufacture and treatment	1970-1985
K04-A	Unclassified	1970-1985
K04-B	DETONATORS, PYROPHORIC COMPOSITIONS	
K04-B01	Detonating or primer compositions; (non)-electric detonators; primers; fuses, blasting-caps, and accessories	
K04-B02	Chemical contact igniters; chemical lighters; pyrophoric compositions; flints	
K04-B	Unclassified	
K04-C	FIREWORKS, SMOKE GENERATION, INCENDIARY AND GAS ATTACK COMPOSITIONS, GENERATION OF GAS FOR BLASTING OR PROPULSION	
K04-C01	Rocket fuels, propellants	1972
K04-C02	Gas generators e.g. for automotive air bags	2006
K04-C	Others Includes chemical inflation of liferafts, etc.	
K04-D	MATCHES Includes matchbox making machinery, etc.	
K04-D	General	
K04-E	EXPLOSIVES (CHEMICAL ASPECTS) See K04-A+: prior to 198601	
K04-E01	Emulsion, water gel, slurry explosives, general + unclassified	1986
K04-E01A	. Based on nitrate oxidiser	1986
K04-E01A1	.. ANFO	1986

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

K05 NUCLEAR REACTORS

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

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

K06 NUCLEAR POWER PLANT

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

K07 HEALTH PHYSICS

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

K08 NUCLEONICS, X-RAY TECHNIQUES, ETC.

K08-A	NUCLEAR OR X-RAY MEASUREMENT	
K08-A	General E.g. detection	
K08-A01	Neutron counters	1972
K08-A02	Charged particle counters	2005
K08-A03	Gamma ray and cosmic ray counters	2005
K08-A04	X-ray measurement	2005
K08-B	CONVERSION OF CHEMICAL ELEMENTS, PRODUCING/MODERATING NEUTRONS	
K08-B	General	
K08-C	ENERGY FROM RADIOACTIVE SOURCES, UTILISING COSMIC RADIATION	
K08-C	General	
K08-D	NUCLEAR EXPLOSIVES Includes nuclear explosion simulation	
K08-D	General	
K08-E	X-RAY TECHNIQUES	
K08-E	General	
K08-E01	X-ray imaging	2005
K08-E02	X-ray therapy or treatment	2005
K08-F	PLASMA TECHNIQUES	
K08-F	General	
K08-G	PARTICLE ACCELERATORS AND CYCLOTRONS	2002
K08-G	General	2002
K08-H	IRRADIATION	2002
K08-H	General	2002
K08-H01	Medical	2002
K08-H02	Food	2002

K08-X	OTHER NUCLEAR TECHNIQUES Includes general isotope separation	
K08-X	General	
K08-X01	Isotope separation	2006

K09 APPLICATIONS

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

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 (sulphates, 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	
L01-D03	Forming glass in contact with a liquid surface, general (float glass production)	
L01-D03A	. Bath chamber	
L01-D03B	. Glass treatment in the chamber	
L01-D03C	. Thickness control	

L01-D04	Wire reinforced glass sheet manufacture	1986	L01-F03F3	.. Depositing glass films on core or sheath Except L01-F03F2	1986
L01-D05	Glass sheet manufacture by sol-gel process	1986	L01-F03F4	.. Fibre preform manufacture using preformed sheath and core rod	1986
L01-D	Unclassified Including wire reinforced glass		L01-F03F5	.. Organic coatings	2002
L01-E	FORMING HOLLOW-WARE		L01-F03F6	.. Inorganic coatings	2002
L01-E01	General	1970-1985	L01-F03F7	.. Optical and other coatings	2002
L01-E02	Gob formation Including cutting, jets		L01-F03G	. Optical fibre drawing and/or spinning	1986
L01-E03	Blowing glass Including blow moulding		L01-F03H	. Optical fibre cutting and joining	1986
L01-E04	Pressing glass		L01-F03J	. Multicore and elliptical single core optical fibre manufacture	1986
L01-E05	Moulding glass		L01-F03K	. Apparatus for manufacturing optical fibres	1986
L01-E06	Moulds		L01-F03L	. Optical fibre cable manufacture	1986
L01-E07	Transfer mechanisms	1972	L01-F03M	. Optical fibres, general	1986
L01-E08	Shaping glass manufactured by sol-gel process	1986	L01-F04	Shaping glass to special forms	
L01-E	Unclassified		L01-F05	Shaping glass manufactured by sol gel process	1986
L01-F	OTHER FORMING PROCESSES		L01-F06	Vapour deposition of glass to form layers	1986
L01-F01	General	1970-1985	L01-F07	Foamed glass	1986
L01-F02	Tube, rod and cylinder formation		L01-F	Unclassified Including glass manufacture by methods other than melting and casting, and sintering; especially foamed glass manufacture. Also includes radioactive waste disposal in glass	
L01-F03	Glass fibre manufacture		L01-G	POST FORMING TREATMENT	
L01-F03A	. Surface treatment		L01-G01	General	
L01-F03A1	.. Coating optical glass fibres	1986	L01-G01A	. Transfer and handling	1972
L01-F03B	. Nozzles for fibre formation	1972	L01-G02	Annealing, sintering	
L01-F03C	. Ancillary equipment	1972	L01-G03	Thermal and chemical toughening	
L01-F03D	. Forming rovings (fibre twisting, plaiting)	1972	L01-G04	Surface coating of glass	
L01-F03E	. Post forming Including cutting fibre mat	1972	L01-G04A	. Coating glass bottles	1986
L01-F03F	. Optical fibre preform manufacture	1986			
L01-F03F1	.. Core and sheath composition	1986			
L01-F03F2	.. Glass soot manufacture and deposition on core or sheath	1986			

L01-G04B	. Coating glass sheet with organic material	1986	L01-G06	Mechanical surface treatment	
L01-G04C	. Coating glass sheet with inorganic material	1986	L01-G07	Cutting of flat glass	
L01-G04C1	.. Coating glass sheet with metallic material	2011	L01-G08	Cutting of glass other than flat	
L01-G04D	. Coating optical components	1986	L01-G09	Decorating glass Including special colouring	
L01-G04E	. Coating glass tableware	1986	L01-G10	Bending glass	
L01-G04F	. Coating techniques	2010	L01-G11	Cleaning glass	2010
L01-G04F1	.. PVD, CVD and Sputtering	2010	L01-G	Unclassified	
L01-G04F2	.. Other coating methods		L01-H	JOINING GLASS	
L01-G04F2A	... Electrostatic coating	2011	L01-H01	General	1970-1985
L01-G04F2B	... Spin coating	2011	L01-H02	Laminated glass Specific laminates covered by codes in L01-H03 to L01-H09 sections take preference over this code.	
L01-G04F2C	... Sol gel coating	2011	L01-H03	Joining glass by soldering/welding From 2011 this code is expanded to include welding e.g. ultrasonic welding Includes sealing and soldering glass.	
L01-G04G	. Coating other glass forms Includes tubes and unspecified forms	2011	L01-H03A	. Glass to glass	2011
L01-G04G1	.. Coating glass with organic materials See L01-G04B for coating glass sheet with organic material	2011	L01-H03B	. Glass to plastic/polymers	2011
L01-G04G2	.. Coating glass with inorganic materials See L01-G04C for coating glass sheet with inorganic material	2011	L01-H03C	. Glass to ceramic	2011
L01-G04G3	.. Coating glass with metallic materials See L01-G04C1 for coating glass sheet with metallic material	2011	L01-H03D	. Glass to metals	2011
L01-G05	Surface modification (not mechanical) Includes colouring, titurisation etc.		L01-H03E	. Glass to semiconductors e.g. silicon	2011
L01-G05A	. Doping glass surface e.g. to change refractive index for wave guides	1986	L01-H03X	. Glass to other materials Includes wood, paper etc.	2011
L01-G05B	. Patterning glass	2011	L01-H04	Joining glass by fusion Includes thermal, thermocompression bonding, hot isostatic pressing. Exclude vitreous enamelling which is coded in L01-H06.	
L01-G05C	. Etching Includes glass frosting	2011	L01-H04A	. Glass-metal seals	1986
			L01-H04B	. Joining glass to ceramics	1986
			L01-H04C	. Glass to glass	2011
			L01-H04D	. Glass to plastic/polymers	2011
			L01-H04E	. Glass to semiconductors e.g. silicon	2011
			L01-H04X	. Glass to other materials Includes wood, paper etc.	2011

L01-H05	To other material with interlayer e.g. of plastics		L01-J	FINISHED PRODUCT HANDLING	
L01-H05A	. Glass-plastic seals Including (sealing) double glazing units	1994	L01-J01	General	1970-1985
L01-H05B	. Glass to glass	2011	L01-J02	Quality control	
L01-H05C	. Glass to ceramic	2011	L01-J03	Filling glass containers	
L01-H05D	. Glass to metals	2011	L01-J04	Packing and storage	
L01-H05E	. Glass to semiconductors e.g. silicon	2011	L01-J	Unclassified	
L01-H05X	. Glass to other materials Includes wood, paper etc.	2011	L01-K	GLASS CERAMICS	
L01-H06	Vitreous enamelling		L01-K01	General	1970-1985
L01-H07	By sealants including adhesives		L01-K02	Process and apparatus	
L01-H07A	. Glass to glass	2011	L01-K03	Applications	
L01-H07B	. Glass to plastic/polymers	2011	L01-K	Unclassified	
L01-H07C	. Glass to ceramic	2011	L01-L	APPLICATIONS OF GLASS	
L01-H07D	. Glass to metals	2011	L01-L01	Building	
L01-H07E	. Glass to semiconductors e.g. silicon	2011	L01-L02	Vehicles	
L01-H07X	. Glass to other materials Includes wood, paper etc.	2011	L01-L03	Laboratory	
L01-H08	Glazes	1972	L01-L04	Electrical and electronic	
L01-H09	Other bonding methods	2011	L01-L05	Optical Including fibres	
L01-H09A	. Glass to glass	2011	L01-L06	Packaging Including bottling, etc.	
L01-H09B	. Glass to plastic/polymers	2011	L01-L07	Medicinal/Dental uses	2002
L01-H09C	. Glass to ceramic	2011	L01-L08	Household/office use Includes tableware, furniture etc.	2010
L01-H09D	. Glass to metals	2011	L01-L	Unclassified	
L01-H09E	. Glass to semiconductors e.g. silicon	2011	L01-M	TESTING OF GLASS Includes all measuring during processing of glass.	2005
L01-H09X	. Glass to other materials Includes wood, paper etc.	2011			
L01-H	Unclassified				

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.

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

L02-A12	Surface treatment	
	Includes etching, marking, engraving and polishing	2010
L02-A13	Ceramic waste treatment/reuse/recycling	2011
L02-A14	Nanomaterials	2011
L02-A	Unclassified	
L02-B	PREPARATION OF MATERIALS	
	Include novel compositions and treatment of these materials.	
L02-B01	Lime(stone)	
L02-B02	Magnesia and dolomite	
L02-B03	Slags	
L02-B04	By-products of lime and magnesia	
L02-B05	Expanded clay	1972
L02-B06	Other clays	1972
L02-B07	Asbestos	
	Including disposal of waste products	1972
L02-B08	Mineral fibres	
	e.g. from ceramic oxides, ores, rocks	1972
L02-B	Unclassified	
L02-C	CEMENTS	
L02-C01	General	1970-1986
L02-C02	Portland; apparatus for manufacture of cements from raw materials	
L02-C03	Portland clinker, Pozzolan, slag and waste product	
L02-C04	Magnesium	
	Includes magnesium compounds	
L02-C05	Calcium sulphate	
L02-C06	Complex for special purposes	
L02-C07	Alumina (5% alumina)	1972
L02-C08	Cement additives	1972
L02-C	Unclassified	
L02-D	MORTARS, CONCRETES	
L02-D01	Mortars and plasters	
	Including stuccos, grouts, trowellable mortars, mine filling compsns.	

L02-D02	Heavy concretes; apparatus for manufacture of concrete, mixers, shuttering, mould release agents, lubricants		L02-D14	Concrete additives and coatings Include additives for mortars.	1972
L02-D03	Light concretes e.g. containing pore formers		L02-D14A	. Concrete set accelerators, retarders, activators	1986
L02-D04	Prefabricated concrete Concrete articles, pipes, blocks, autoclaving equipment		L02-D14B	. Concrete strengthening additives	1986
L02-D04A	. Compositions	1986	L02-D14C	. Frost resistance imparting additives	1986
L02-D04B	. Methods	1986	L02-D14D	. Water reducing additives (to reduce amount of water needed for making concrete)	1986
L02-D04C	. Apparatus	1986	L02-D14E	. Plasticising and fluidising additives	1986
L02-D04D	. Products	1986	L02-D14F	. Polymeric additives	1986
L02-D05	Reinforced and pre-stressed concretes and mortars. Steel and glass fibre reinforced and pre-stressed concretes. From 2010 this code has been expanded to include reinforced and pre-stressed mortars.		L02-D14G	. Corrosion inhibiting agents	2012
L02-D06	Concretes made with special fillers (based on Portland cement only)		L02-D14H	. Biological additives e.g. fungicides	2012
L02-D07	Concretes and artificial stone (other than from Portland cement)		L02-D14M	. Polymeric and organic coatings and impregnants for concrete	1986
L02-D07A	. Gypsum products Including plaster board, plaster modelling	1977	L02-D14N	. Inorganic coatings and impregnants for concrete	1986
L02-D07B	. Resin concretes	1977	L02-D14P	. Decorative coatings and additives for concretes	1986
L02-D08	Testing methods		L02-D14Q	. Water permeability retarding layers and additives	1986
L02-D09	Artificial floors and surfaces Road, paving, sporting surfaces and floors and their subgrades. Includes artificial roofing.		L02-D14R	. Paints	1994
L02-D10	Bitumastic compositions	1972	L02-D14S	. Antifoaming additive	2011
L02-D11	Asbestos and mineral fibre products	1972	L02-D15	Sound and thermal insulation Including acoustic and thermal insulation based on inorganic materials, fire protecting panels	1972
L02-D12	Soil consolidation		L02-D15A	. Fire resistance boards, blocks, blankets etc. Includes all products	1986
L02-D12A	. Cementing and sealing compositions for oil and gas wells See also H01-C02B	2005	L02-D15A1	.. Fireproof materials	2011
L02-D13	Aggregates	1972	L02-D15B	. Thermal and acoustic insulating boards	1986
L02-D13A	. Fillers e.g. fly ash etc.	1994			

L02-D15C	. Thermal and acoustic insulating flexible sheeting	1986	L02-F05B	. Graphite	2002
L02-D15D	. Thermal and acoustic insulating material compositions	1986	L02-F05C	. Carbon fibres	2002
L02-D15E	. Other thermal and acoustic insulating products	2011	L02-F06	Automotive uses	2002
L02-D	Unclassified		L02-F	Unclassified	
L02-E	REFRACTORIES 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 ₂ O ₃ , ZrO ₂ , carbides, nitrides, etc.		L02-G	OXIDE CERAMICS	
L02-E01	General		L02-G01	Inorganic Oxides 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".	
L02-E02	Fireclay and diatomaceous		L02-G01A	. Alumina Includes aluminates, aluminosilicates, zeolites. See L02-G11 for production	2002
L02-E03	Acid		L02-G01B	. Silica	2002
L02-E04	Basic		L02-G01B1	.. Metal silicates	2006
L02-E05	Mouldables, castables and coatings		L02-G01C	. Rare earth oxides 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
L02-E06	Core materials Includes refractory hot tops, linings and blast furnace tap hole seals		L02-G01C1	.. Yttria	2006
L02-E07	Carbon and carbon-contg. Takes precedence over L02-E03 and L02-E04		L02-G01C2	.. Ceria	2006
L02-E08	Fused and cast		L02-G01D	. Zirconia Includes zirconates	2002
L02-E09	Amphoteric and neutral		L02-G01E	. Titania Includes titanates	2006
L02-E	Unclassified		L02-G01F	. Zinc oxides	2006
L02-F	ABRASIVES (INCLUDING FRICTION MATERIALS FOR CLUTCHES AND BRAKES)	1994	L02-G01M	. Mixed metal oxides Includes metallates	2006
L02-F01	General (including binders)	1994	L02-G01M1	.. Metal titanates	2006
L02-F02	Rouges Including oxides other than L02-F04		L02-G01X	. Other inorganic oxides	2006
L02-F03	Carbides, silicides, nitrides Including abrasive tools using these materials		L02-G02	Heavy clay products	
L02-F04	Harsh oxides (Moh's hardness >6)		L02-G03	Whiteware	
L02-F05	Carbon				
L02-F05A	. Diamond Including abrasive tools using diamond	2002			

L02-G03A	. Porcelains Including dental porcelains 1972	L02-G12	Other oxide preparation 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
L02-G03A1	.. Prostheses, hydroxyapatite, artificial bone 2002	L02-G12A	. Titania Includes titanates 2006
L02-G04	Colours	L02-G12B	. Zirconia Includes zirconates. 2006
L02-G05	Electrical insulators Including preparation of mica, mica sheet, insulators for power lines, ceramic substrates and ceramic encapsulating compositions	L02-G12C	. Zinc oxides 2006
L02-G06	Thermal and acoustic insulators Including thermal insulating material prepared by firing a ceramic only. For all other thermal insulating material see L02-D15	L02-G12D	. Rare earth oxides 2006
L02-G07	Electronic ceramics, general Novel oxides for electrical purposes, prepn. methods of conventional oxides. Ferroelastic materials are coded with ferroelectric materials	L02-G12D1	.. Yttria 2006
L02-G07A	. Magnetic compositions 1972	L02-G12D2	.. Ceria 2006
L02-G07B	. Piezoelectrics 1972	L02-G12E	. Silica 2006
L02-G07C	. High permittivity compositions 1972	L02-G12E1	.. Metal silicates 2006
L02-G07D	. Resistive oxide compositions, semiconductive oxide compositions See L03-B01A for zinc oxide based ceramic varistors 1972	L02-G12M	. Mixed metal oxides Includes metallates 2006
L02-G07E	. Conductive ceramics 2002	L02-G12M1	.. Metal titanates 2006
L02-G08	Wear resistant ceramics, lubricants Including friction materials and artificial and natural oxide gemstones	L02-G12X	. Other inorganic oxides 2006
L02-G09	Nuclear ceramics	L02-G	Unclassified Including 'technical' ceramics.
L02-G10	Ceramics for optical purposes, general	L02-H	NON-OXIDE CERAMICS
L02-G10A	. Luminescent and fluorescent compositions 1972	L02-H01	General
L02-G10B	. Laser compositions 2010	L02-H02	Carbides, borides, nitrides, silicides, (general)
L02-G11	Alumina preparation (from raw materials) Includes production of aluminates, aluminosilicates, zeolites 1972	L02-H02A	. Carbides 1972
		L02-H02B	. Borides, nitrides, silicides 1972
		L02-H02B1	.. Borides 1972
		L02-H02B2	.. Nitrides 1972
		L02-H02B3	.. Silicides 1972

L02-H03	Sulphides, phosphides (novel compositions only)	
L02-H04	Carbon and graphite, general See also J04-F	
L02-H04A	. Carbon fibres	1972
L02-H04B	. Carbon nanostructures Including fullerenes and nanotubes	2002
L02-H05	Arsenides, selenides, tellurides (novel compositions only)	
L02-H	Unclassified Including halides	
L02-J	CERAMIC COMPOSITES	
L02-J01	Metal/ceramic composites	
L02-J01A	. Metallised ceramic	
L02-J01B	. Cermets Including cermet cutting tools	
L02-J01C	. Ceramic/metal seals	
L02-J01D	. Ceramic fibre reinforced metal	
L02-J01E	. Ceramic coating on metal	
L02-J02	Non-metal/ceramic composites	
L02-J02A	. Ceramic/glass	
L02-J02B	. Ceramic/plastics	
L02-J02C	. Dissimilar ceramics	
L02-J03	Powder coatings May be used with other L02-J codes, and see M13-H04A	2006
L02-J	Unclassified	1972
L02-K	APPLICATIONS OF CERAMICS	
L02-K01	Household use	2011
L02-K02	Medical/Dental	2011

L03 ELECTRO-(IN)ORGANIC

L03-A	CONDUCTORS AND INSULATORS	
L03-A01	Mainly metals and alloys	
L03-A01A	. Non-insulated (conducting alloys, contacts, conductive inks and pastes)	
L03-A01A1	.. Silver (alloy) contacts and electrodes For contacts or electrodes used in specific applications which cannot be catered for elsewhere.	1986
L03-A01A2	.. Other metal/alloy contacts and electrodes For contacts or electrodes used in specific applications which cannot be catered for elsewhere.	1986
L03-A01A3	.. Conductive pastes including polymers filled with conductive metal	1986
L03-A01A4	.. Sliding contacts, pantographs etc.	1986
L03-A01A5	.. Conductive alloy compositions	1986
L03-A01A6	.. Nanomaterials	2010
L03-A01B	. Conductors, metal, insulated	
L03-A01B1	.. Cables	1986
L03-A01B2	.. Joining cables	1986
L03-A01B3	.. Insulated wire	1986
L03-A01B4	.. Insulating oils for cables	1986
L03-A01B5	.. Preparation of leads and terminals	1986
L03-A01B6	.. Soldering, brazing, welding, thermo-compression bonding See L04-C17A for soldering of semiconductors and L03-H04E6 for soldering of printed circuits.	1986
L03-A01B7	.. Wire harness	2012
L03-A01C	. Superconductors	1972
L03-A01C1	.. Metallic superconductors	2002
L03-A01C1A	... Nb superconductors	2002

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	Magnets, inductances, transformers, etc., general For magnetic tape compsns. discs, lubricants, etc. see L03-B05 from 198601	
L03-A02	Non metal conductors		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	Insulators 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	Unclassified		L03-B02B4A	... Magnetic polymer composite particles Excludes magnetic pigments for recording which is covered in L03- B05D1.	2009
L03-B	RESISTORS, MAGNETS, CAPACITORS, SWITCHES		L03-B02B5	.. Magnetic liquid compositions	2009
L03-B01	Resistors, fixed or adjustable - general		L03-B02B5A	... Ferrofluids; magnetic colloids	2009
L03-B01A	. Variable resistors	1972			
L03-B01A1	.. Varistors	1986			
L03-B01A2	.. Thermistors (heat sensitive resistors)	1986			

L03-B02B5B	... Magnetorheological fluids; magnetoviscous	2009	L03-B03E	. Inorganic dielectric compositions	1986
L03-B02B6	.. Other magnetic material compositions Excludes magnetic recording.	2009	L03-B03F	. Organic dielectric compositions	1986
L03-B02B6A	... Inorganic composite magnetic particles Excludes magnetic pigments for recording which is covered in L03-B05D1.	2009	L03-B03G	. Capacitor electrodes	2002
L03-B02C	. Inductances Including insulating oils for inductors	1972	L03-B03G1	.. Inorganic capacitor electrodes	2007
L03-B02D	. Transformers Including insulating oils for transformers	1972	L03-B03G2	.. Metallic capacitor electrodes	2011
L03-B02E	. Motors	1986	L03-B03H	. Capacitor electrolytes	2006
L03-B02F	. Coils	1986	L03-B03J	. Multilayer capacitors	2007
L03-B02G	. Medical or pharmaceutical industry applications	2009	L03-B04	Electric switches, relays, protective devices Including arc suppressing gases, commutators, surge arresters	
L03-B02H	. Magnetic inks, paints, lacquers	2009	L03-B04A	. Switches	1986
L03-B02J	. Engineering; Automotive applications	2009	L03-B04B	. Relays and contact breakers	1986
L03-B02M	. Magnetic memory See also L04-E15 for semiconductor memory.	2011	L03-B04C	. Commutators	1986
L03-B02N	. Nanomagnetic materials	2012	L03-B04D	. Fuses	1986
L03-B02X	. Other applications of magnets or magnetic compositions Excludes magnetic recording which is covered in L03-B05.	2009	L03-B04E	. Lightning arresters and surge absorbers	1986
L03-B03	Capacitors and capacitive devices - general Including electrets, condensers		L03-B05	Magnetic Recording Covered by L03-B02 prior to 198601	1986
L03-B03A	. Electrolytic capacitors	1972	L03-B05A	. Magnetic tapes	1986
L03-B03B	. Monolithic capacitors	1972	L03-B05B	. Magnetic plates, discs	1986
L03-B03C	. Thick/thin film capacitive compositions	1972	L03-B05C	. Other recording media	1986
L03-B03D	. Other capacitors, fixed/variable	1972	L03-B05D	. Magnetic layers, dispersions	1986
			L03-B05D1	.. Magnetic pigments	1986
			L03-B05D2	.. After treatment of magnetic pigments	1986
			L03-B05D3	.. Non magnetic additives	1986
			L03-B05D4	.. Binders for magnetic layers and dispersions	1986
			L03-B05E	. Magnetic layers, metal plating	1986

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

L03-D	SEMICONDUCTOR, PIEZOELECTRIC, THERMOOPTIC, OPTO-ELECTRONIC MATERIALS AND DEVICES 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	L03-D03A	. Doped layers on a substrate Including epitaxial layer production of single crystals 1972-1985
L03-D01	Materials, general Including pyroelectric materials 1972-2004	L03-D03B	. Masking techniques 1972-1985
L03-D01A	. Semiconductor materials 1972-1985	L03-D03C	. Etching, slicing, and dicing 1972-1985
L03-D01B	. Piezoelectric materials Scope now covered in L03-G09A 1972-2004	L03-D03D	. Insulating and conductive layer production 1972-1985
L03-D01C	. Thermo-optic materials Scope now covered in L03-G09D 1972-2004	L03-D03E	. Production of complete devices Unspecified devices only, otherwise L03-D04: 1972-1985
L03-D01D	. Opto-electronic materials 1972-2004	L03-D03F	. Soldering, thermo-compression bonding Including soldering of any electronic component 1972-1985
L03-D01D1	.. Liquid crystal compounds Scope now covered in L03-G05B1 1986-2004	L03-D03G	. Encapsulation Including passivation and partial encapsulation 1972-1985
L03-D01D2	.. Liquid crystal material mixtures Scope now covered in L03-G05B2 1986-2004	L03-D03H	. Undoped layers on a substrate Including epitaxial layer production of single crystals 1977-1985
L03-D01D3	.. Additives for liquid crystal materials Scope now covered in L03-G05B4 1986-2004	L03-D04	Devices - general Including Hall effect and Pockels cell devices and electro- optical devices. From 20050, Scope covered in L03-G10 1972-2004
L03-D01E	. Electro-rheological fluids Scope now covered in L03-G09F 1994-2004	L03-D04A	. Transistors 1972-1985
L03-D02	Producing semiconductors, doping - general 1970-1985	L03-D04B	. Diodes, rectifiers Including LEDs, light-emitting semiconductive devices and arrays 1972-1985
L03-D02A	. Single crystal growth Semiconducting materials only; does not include epitaxial layer production 1972-1985	L03-D04C	. Thyristors 1972-1985
L03-D02B	. Zone refining 1972-1985	L03-D04D	. Electromechanical transducers 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
L03-D02C	. Doping 1972-1985	L03-D04E	. Radiation sensitive devices Including thermo-piles, photoelectric cells 1972-1985
L03-D03	Producing semiconductor devices using L03-D01 materials - general 1972-1985	L03-D04F	. Image converters Including image intensifiers. Scope covered in L03-G10 1972-2004

L03-D04G	. Thermo-optical devices Including thermal printing heads Scope now covered in L03-G10B, C and D 1972-2004	L03-E01B5D	... Sodium-sulphur electrodes 2002
L03-D05	Sealing devices in housings 1970-1985	L03-E01B6	.. Zinc and zinc oxide electrode 1986
L03-D05A	. Materials for device housings - e.g. polymers for general electrical/electronic usage Including thermal printing heads 1994-2004	L03-E01B7	.. Silver and silver oxide electrodes 1986
L03-D	Unclassified	L03-E01B8	.. Other inorganic electrodes 1986
L03-E	BATTERIES, ACCUMULATORS, THERMOELECTRIC ELEMENTS	L03-E01B8A	... Other inorganic oxide electrodes 2002
L03-E01	Components of primary and secondary cells - general Components take precedence over cell type unless more than two components are claimed	L03-E01B9	.. Organic electrodes 1986
L03-E01A	. Separators 1972	L03-E01B9A	... Polymer electrodes 2002
L03-E01B	. Electrodes 1972	L03-E01C	. Electrolytes 1972
L03-E01B1	.. Lead electrodes 1977	L03-E01C1	.. Aqueous electrolytes 2002
L03-E01B2	.. Air or oxygen electrodes 1977	L03-E01C2	.. Non-aqueous electrolytes 2002
L03-E01B3	.. Graphite electrodes 1986	L03-E01C3	.. Solid electrolytes 2002
L03-E01B4	.. Nickel and cadmium electrodes 1986	L03-E01C4	.. Liquid electrolytes 2002
L03-E01B4A	... Ni electrodes for NiCd batteries 2002	L03-E01C5	.. Molten/fused electrolytes 2002
L03-E01B4B	... Cd electrodes 2002	L03-E01D	. Other components 1972
L03-E01B4C	... Ni MH electrodes Includes H ₂ storage alloys 2002	L03-E01D1	.. Cases 2002
L03-E01B5	.. Alkali metal electrodes and unspecified electrodes for alkaline cells 1986	L03-E01D2	.. Terminals 2002
L03-E01B5A	... Manganese oxide electrodes Includes electrodes for alkaline manganese cells 2002	L03-E01D3	.. Seals 2002
L03-E01B5B	... Lithium electrodes Include novel electrodes for lithium cells. For lithium manganate see L03-E01B5C. 2002	L03-E01D4	.. Connectors See also X16-F05 2011
L03-E01B5C	... Lithium manganate electrodes 2002	L03-E01D5	.. Carriers, plates Includes current collector, grid, support, charge and frame 2011
		L03-E01D6	.. Battery packs 2011
		L03-E02	Primary cells
		L03-E03	Secondary cells
		L03-E04	Fuel cells
		L03-E04A	. Solid electrolyte cells Including beta -Al ₂ O ₃ for Na-S cells
		L03-E04A1	.. Solid oxide electrolyte cells 2002
		L03-E04A2	.. Solid polymer electrolyte cells 2002

L03-E04B	. Fuel cell electrodes	2002	L03-E05C	. Gas sensors - i.e. those which are not gas-sensitive resistors	1994
L03-E04B1	.. Catalyst electrodes See also J04-E04D	2006	L03-E05D	. Hybrid cells	2002
L03-E04B2	.. Membrane electrodes	2007	L03-E05D1	.. Electrodes	2002
L03-E04C	. Molten carbonate fuel cells	2002	L03-E05D2	.. Metal-air hybrid cells	2002
L03-E04D	. Alkaline fuel cells	2002	L03-E05D3	.. Metal-halogen hybrid cells	2002
L03-E04E	. Phosphoric acid fuel cells	2002	L03-E06	Reclamation and disposal See also relevant electrode code	2002
L03-E04F	. Hydrogen oxygen fuel cells	2002	L03-E07	Testing batteries and fuel cells	2002
L03-E04G	. Fuel cell separators	2002	L03-E08	Production of battery and components See also relevant electrode code. Include apparatus for manufacturing battery and its components. Include assembling of batteries.	2006
L03-E04H	. Production of fuel cell and components Include assembling of fuel cells.	2005	L03-E08A	. Production of separators	2006
L03-E04H1	.. Production of fuel cell separators	2006	L03-E08B	. Production of electrodes Include preparation of electrode materials.	2006
L03-E04H2	.. Production of fuel cell electrodes Includes preparation of electrode materials.	2006	L03-E08C	. Production of other components E.g. cases, terminals and seals. Also includes electrolyte manufacture.	2006
L03-E04H3	.. Production of other fuel cell components Includes electrolyte manufacture	2005	L03-E09	Recharging batteries E.g. processes or apparatus for recharging. Only if sufficient chemical interest. See also X16-G	2006
L03-E04I	. Hydrogen generation	2006	L03-E10	Repairing batteries	2011
L03-E04J	. Hydrogen storage materials/facility	2007	L03-E	Unclassified	
L03-E04K	. Biofuel cell	2011	L03-F	STIMULATED RADIATION-EMISSION DEVICES	
L03-E04L	. Flow field plate	2011	L03-F01	Masers	
L03-E04P	. Gas diffusion layers	2012	L03-F02	Lasers, general	
L03-E05	Other direct energy conversion devices		L03-F02A	. Compositions	1972
L03-E05A	. Thermocouples	1972	L03-F02A1	.. Gaseous laser compositions	2002
L03-E05B	. Solar cells	1986	L03-F02A2	.. Solid laser compositions Includes YAG, Ruby	2002
L03-E05B1	.. Dye-sensitized solar cells	2011	L03-F02A3	.. Dye laser	2011
L03-E05B1A	... Dye material	2011			
L03-E05B2	.. Electrode structure/materials	2013			

L03-F02B	. Construction and design	1972	L03-G04B3	.. Substrates for optical discs	2005
L03-F	Unclassified	1972	L03-G04B4	.. Coatings for recordable discs	2005
L03-G	OTHER BASIC ELECTR(ON)IC ELEMENTS AND MATERIALS		L03-G04B5	.. Optical cards	2011
L03-G01	Delay lines	1972	L03-G04B9	.. Materials for holographic applications	2005
L03-G02	Wave guides Includes optical fibre waveguides. Also include optical components which cannot be coded more specifically below.	1972	L03-G05	Display devices Including arrays	1972
L03-G02A	. Polarisers	2002	L03-G05A	. Liquid crystal display devices But see L03-D01D for liquid crystal materials.	1986
L03-G02B	. Optical filters	2002	L03-G05A1	.. LCD panels	2002
L03-G02C	. Attenuators	2002	L03-G05A2	.. Light valves	2002
L03-G02D	. Components for optoelectronic circuits	2002	L03-G05A3	.. Backlight units	2010
L03-G02E	. Antireflective coating See L04-C05A for antireflective coating compositions used in semiconductor patterning.	2011	L03-G05B	. Materials and components for LCDs display devices	1986
L03-G02F	. Optical switch	2012	L03-G05B1	.. Novel liquid crystal compounds	2005
L03-G02G	. Reflectors	2013	L03-G05B2	.. Liquid crystal compositions	2005
L03-G03	Coulometers	1972	L03-G05B3	.. Dyes for liquid crystal compounds	2005
L03-G04	Optical memory and storage elements Covers optical discs and holographic media	1972	L03-G05B4	.. Aligning agents and other additives for LC compositions	2005
L03-G04A	. Semiconductor memory elements Scope now covered by L04-E15	1986-2004	L03-G05B5	.. Substrates and spacers for LCDs	2005
L03-G04B	. Optical memory elements For Magnetic and Magneto-optical memory elements see L03-B05	1986	L03-G05B5A	... Sealant materials involving resins used in display materials	2007
L03-G04B1	.. Dyes and pigments for recordable discs	2005	L03-G05B6	.. Transistors for LCDs	2005
L03-G04B2	.. Alloy compositions for recordable discs For dynamic e.g. phase change optical disk memory using e.g. GeSbTe alloys. See also T03-B01B5G.	2005	L03-G05B7	.. Filters and polarisers	2005
			L03-G05B7A	... Colour filters See L03-G02 for colour filters not used in LCDs	2005
			L03-G05B7B	... Polarisers	2005
			L03-G05B8	.. Alignment layers	2005
			L03-G05B9	.. Conductive films and other components for LCDs	2005

L03-G05C	. Electrochromic display devices	1986	L03-G09B	. Ferroelectric and ferroelastic	2005
L03-G05C1	.. Electrochromic materials	2005	L03-G09C	. Pyroelectric From 2010 thermoelectric material has been transferred to L03-G09T.	2005
L03-G05C2	.. Other materials for electrochromic devices Includes e.g. polymer or ceramic sealants or glass layers	2005	L03-G09D	. Thermooptical	2005
L03-G05D	. Field emission displays (FED)	2002	L03-G09E	. 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 nonlinear optical materials.	2005
L03-G05E	. Plasma displays (PDP)	2002	L03-G09F	. Electrorheological	2005
L03-G05F	. Electroluminescent displays (EL) and devices	2002	L03-G09G	. Fluorescent and luminescent materials for semiconductor manufacture Used in e.g. LEDs, lasers	2007
L03-G05F1	.. Electroluminescent materials	2005	L03-G09H	. Electrostrictive	2010
L03-G05F2	.. Other materials for EL devices Includes e.g. polymer or ceramic sealants or glass layers	2005	L03-G09I	. Magnetostrictive	2010
L03-G05G	. Electrophoretic displays and materials	2005	L03-G09J	. Photoelectric	2010
L03-G05H	. Magnetophoretic display	2010	L03-G09L	. Magnetoresistive	2011
L03-G05I	. Capacitive touch panel	2011	L03-G09M	. Thermomagnetic Excludes recording materials	2011
L03-G05J	. Electrowetting display	2011	L03-G09P	. Photoresist Excludes photoresist for PCB and semiconductor device manufacture. Includes resist for printer or LCD manufacture.	2010
L03-G05K	. LED display	2011	L03-G09R	. Photochromic	2011
L03-G06	Electromagnetic shielding	2002	L03-G09S	. Spintronic	2012
L03-G07	Heat sinks	2002	L03-G09T	. Thermoelectric	2010
L03-G09	Other Electro(in)organic Materials 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	L03-G09U	. Radiation sensitive materials For image recording	2012
L03-G09A	. Piezoelectric	2005			
L03-G09A1	.. Inorganic Covers e.g. lead zirconium titanates (PZT) etc.	2005			
L03-G09A2	.. Organic Covers e.g. polyvinylidene fluoride (PVdF) etc.	2005			

L03-G09V	. Other fluorescent/luminescent materials Includes fluorescent and luminescent materials used for devices other than semiconductor and discharge lamps/tubes. Also includes scintillator material compositions.	2012	L03-H02	Basic electronic circuitry Including lead frames for semiconductor networks and hybrid devices	
L03-G09X	. Ink jet recording ink For ink jet recording methods	2014	L03-H03	Electric communications techniques - general Including speaker cones	
L03-G09Z	. Zero expansion materials	2012	L03-H03A	. Data storage units, computers	1972
L03-G10	Other electronic devices For specific devices not catered for elsewhere where the materials aspect is important	2005	L03-H03B	. Bio- and Neuro-computers	1994
L03-G10A	. Piezoelectric transducers See also V06 codes for specific details. For MEMS see L03-G10M.	2005	L03-H04	Electrical general	
L03-G10A1	.. Inkjet heads	2005	L03-H04A	. Electrical heating and lighting Including resistive and other space heaters, storage heaters	
L03-G10A2	.. Motors e.g. USM	2005	L03-H04B	. Static/antistatic electricity	
L03-G10B	. Thermal inkjet printing heads	2005	L03-H04C	. X-ray techniques Including tube fluoescers, image intensifiers and electrodes	
L03-G10C	. Thermal printing heads e.g. as used by dye sublimation printers	2005	L03-H04D	. Plasma techniques, particle accelerators Including magnetrons	
L03-G10D	. Other thermo-optical devices	2005	L03-H04E	. Printed circuits and racks - general	
L03-G10E	. Image converters and intensifiers	2005	L03-H04E1	.. PCB substrate manufacture (plastics, resins, etc.)	1972
L03-G10F	. Electro-optical devices	2011	L03-H04E2	.. Patterning, including photoresists, application & removal, etching etc.	1972
L03-G10J	. Electrowetting devices	2011	L03-H04E3	.. Metallising, plating, vapour deposition, forming metal sheet and laminating etc	1972
L03-G10M	. MEMS	2011	L03-H04E4	.. Thick film circuits Including conductive pastes and inks for thick film circuit manufacture	1972
L03-G10S	. Scintillator	2011	L03-H04E5	.. Ceramic substrates for PCB's Includes glass and enamels substrates or coatings on metals or ceramics	1972
L03-G10T	. Spintronic devices Includes spintronic-optical and spintronic-magnetic devices	2012	L03-H04E6	.. Soldering. Including tinning of circuits, soldering components to circuits, soldering apparatus etc. Brazing	1986
L03-G	Unclassified		L03-H04E6A	... Adhesives/adhesive joining for PCBs	2007
L03-H	APPLICATIONS		L03-H04E7	.. Microwelding	1986
L03-H01	Generation, conversion, distribution Including MHD generation, triboelectric devices				

L03-H04E8	.. Encapsulation of PCB's Including plastics and glass encapsulation	1986
L03-H04E9	.. Other treatment of PCB's	1986
L03-H05	Vehicles Including sparking and resistive ignition plugs	
L03-H	Applications Unclassified	
L03-J	OTHER MANUFACTURE AND TREATMENT OF ELECTR(ON)IC COMPONENTS AND MATERIALS	
L03-J	General and unclassified	1986
L03-J01	Recycling of electrical and electronic materials and devices Used in combination with relevant device codes	2005
L03-J02	Materials for device housings and packaging Includes polymers e.g. for electrical device casings and for non-specific electrical uses and material used for packaging devices and apparatus for storage	2005
L03-J03	Flame retardant materials	2011
L03-X	TESTING OF DEVICES Exclude testing of batteries and fuel cells (see L03-E07) and testing of semiconductor devices (see L04-C18B).	
L03-X	General and unclassified	2011

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
L04-A	MATERIALS - GENERAL Including preparation of precursor materials	
L04-A	General 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
L04-A01	Silicon 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
L04-A01	Group IV semiconductors Prior to 2002 L04-A01 was assigned for silicon.	2002
L04-A01A	. Silicon	2002
L04-A01B	. Silicon carbide	2002
L04-A01C	. Silicon-germanium	2002
L04-A01D	. Diamond	2002
L04-A01E	. Germanium	2002
L04-A01F	. Other group IV semiconductors	2002
L04-A02	AIII-BV compounds- general	1986

L04-A02A	. Gallium arsenide 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	L04-A02B1	.. Nitrides 2002
L04-A02A	. Binary AIII-BV compound semiconductors Prior to 2002 L04-A02A was assigned for gallium arsenide. 2002	L04-A02B2	.. Phosphides 2002
L04-A02A1	.. Nitrides 2002	L04-A02B3	.. Arsenides 2002
L04-A02A1A	... Gallium nitrides 2002	L04-A02B4	.. Antimonides 2002
L04-A02A1B	... Indium nitrides 2002	L04-A02C	. Indium antimonide, indium phosphide 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
L04-A02A1C	... Aluminium nitrides 2002	L04-A02C	. Quaternary AIII-BV compound semiconductors Prior to 2002 L04-A02C was assigned for indium antimonide or indium phosphide. 2002
L04-A02A2	.. Phosphides 2002	L04-A02C1	.. Nitrides 2002
L04-A02A2A	... Gallium phosphides 2002	L04-A02C2	.. Phosphides 2002
L04-A02A2B	... Indium phosphides 2002	L04-A02C3	.. Arsenides 2002
L04-A02A2C	... Aluminium phosphides 2002	L04-A02C4	.. Antimonides 2002
L04-A02A3	.. Arsenides 2002	L04-A02D	. Complex ternary and quaternary AIII-BV compounds 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
L04-A02A3A	... Gallium arsenides 2002	L04-A02D	. Other AIII-BV compound semiconductors Prior to 2002 L04-A02D was assigned for complex ternary and quaternary AIII-BV compounds. 2002
L04-A02A3B	... Indium arsenides 2002	L04-A03	AII-BVI cpds.- general 1986
L04-A02A3C	... Aluminium arsenides 2002	L04-A03A	. Mercury sulphide, cadmium sulphide, zinc sulphide 1986
L04-A02A4	.. Antimonides 2002	L04-A03B	. Mercury selenide, cadmium selenide, zinc selenide 1986
L04-A02A4A	... Gallium antimonides 2002		
L04-A02A4B	... Indium antimonides 2002		
L04-A02A4C	... Aluminium antimonides 2002		
L04-A02B	. Gallium phosphide 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		
L04-A02B	. Tertiary AIII-BV compound semiconductors Prior to 2002 L04-A02B was assigned for gallium phosphide. 2002		

L04-A03C	. Mercury telluride, cadmium telluride, zinc telluride	2002	L04-B04A	. Chemical-mechanical polishing Includes polishing pad or polishing apparatus.	2002
L04-A03D	. Zinc oxide	2010	L04-B04B	. Slicing and dicing	2002
L04-A04	Organic semiconductor materials	1986	L04-C	SEMICONDUCTOR PROCESSING - GENERAL	
L04-A04A	. Dianhydride semiconductor materials	2002	L04-C	General	1986
L04-A04B	. Cyanine semiconductor materials	2002	L04-C01	Epitaxial growth of semiconductor layers	1986
L04-A04C	. Thiophene semiconductors	2002	L04-C01A	. Vapour deposition	1986
L04-A04D	. Other organic semiconductor materials	2002	L04-C01B	. Chemical vapour deposition Including plasma CVD	1986
L04-A05	Semiconductor nanomaterials Includes semiconductor quantum dots	2010	L04-C01C	. Liquid epitaxial growth	1986
L04-A06	Chalcopyrites	2011	L04-C01D	. Sputtering of semiconductor layers	2002
L04-A07	Copper indium sulphide	2011	L04-C02	Doped layers and regions	1986
L04-A08	Semiconductor precursor material compositions/preparation	2012	L04-C02A	. Forming layers with simultaneous doping	1986
L04-A99	Other inorganic semiconductor materials	2011	L04-C02B	. Doping by ion injection	1986
L04-B	MANUFACTURE OF SEMICONDUCTOR MONOCRYSTALS - GENERAL		L04-C02C	. Doping by gaseous, liquid or solid contact	1986
L04-B	General	1986	L04-C02D	. Doping by diffusion	1986
L04-B01	Single crystal growth by Czochralski, Bridgman and other methods	1986	L04-C02E	. Dopant materials	2012
L04-B01A	. Methods	2002	L04-C03	Amorphous layers	1986
L04-B01B	. Seed crystals	2002	L04-C04	Polycrystalline layers	1986
L04-B01C	. Apparatus	2002	L04-C05	Masking and resist materials	1986
L04-B02	General purification	1986	L04-C05A	. Antireflective coating compositions	2011
L04-B02A	. Zone refining	2002	L04-C06	Patterning techniques general Including sequences of masking and etching steps	1986
L04-B02B	. Gettering	2002	L04-C06A	. Mask design and manufacture	1986
L04-B03	Doping	1986	L04-C06A1	.. Pellicle design/manufacturing	2013
L04-B04	Wafer production	1986	L04-C06B	. Resists	1986

L04-C06B1	.. Patterning of resists	2002	L04-C10B	. Polycrystalline silicon layers	1986
L04-C06B2	.. Stripping of resists Includes stripping compositions	2002	L04-C10C	. Aluminium alloys	1986
L04-C06C	. Hole manufacture	1986	L04-C10D	. Copper alloys	1986
L04-C06D	. Aligning masks and layers	1986	L04-C10E	. Precious metals (alloys)	1986
L04-C07	Etching processes general Includes etch stop layers.	1986	L04-C10F	. Other compositions	1986
L04-C07A	. Ion beam etching	1986	L04-C10G	. Buried layers	1986
L04-C07B	. Vapour phase etching, dry etching	1986	L04-C10H	. Layer conversion especially to semiconductor or insulator	1986
L04-C07C	. Liquid phase etching, etchants	1986	L04-C10J	. Tungsten	2002
L04-C07C1	.. Chemical liquid phase etching	2002	L04-C10K	. Titanium	2002
L04-C07C2	.. Electrochemical liquid phase etching	2002	L04-C10L	. Coating methods	2011
L04-C07D	. Plasma etching	1986	L04-C10L1	.. PVD, CVD and Sputtering methods	2011
L04-C07E	. Groove formation, dicing	1986	L04-C10L2	.. Other coating methods Includes electroplating, electroless plating, spraying and sol-gel techniques	2011
L04-C07F	. Mechanical etching	2002	L04-C11	Contacts, terminals, electrodes - general	1986
L04-C07G	. Photoetching	2011	L04-C11A	. Ohmic contacts/electrodes	1986
L04-C08	Combinations of L04-C01 - L04-C07	1986	L04-C11B	. Schottky contacts/electrodes	1986
L04-C09	Washing, rinsing and drying processes To include cleaning	1986	L04-C11C	. Electrodes	1986
L04-C09A	. Washing and cleaning compositions	2005	L04-C11C1	.. Gate electrodes For gate insulating layers see L04-C12J	2002
L04-C09B	. Methods	2005	L04-C11C2	.. Capacitor electrodes	2002
L04-C09C	. Apparatus	2005	L04-C11C3	.. Source/drain	2002
L04-C10	Conductive layers - general Including films	1986	L04-C11D	. Terminals Include terminal posts	1986
L04-C10A	. Conductive tracks, circuits Includes words and bit lines	1986	L04-C12	Insulating and passivating layers - general	1986
L04-C10A1	.. Electrical fuses Used in CMOS compatible processes. For chip ID, serial number, feature selection, memory redundancy, On-Time-Programmable (OTP).	2007	L04-C12A	. Oxide layers	1986

L04-C12B	. Nitride layers	1986	L04-C16A	. Annealing	2002
L04-C12C	. Isolating mesas, islands etc.	1986	L04-C16B	. Laser annealing	2005
L04-C12C1	.. Semiconductor on insulator (SOI)	2006	L04-C17	Bonding Processes	1986
L04-C12C2	.. Trench isolation (e.g. STI)	2006	L04-C17A	. Soldering techniques Including desoldering	1986
L04-C12C3	.. LOCOS	2006	L04-C17B	. Thermocompression bonding	1986
L04-C12D	. Glass layers	1986	L04-C17C	. Welding - microwelding	1986
L04-C12E	. Plastics layers	1986	L04-C17D	. General adhesive use	1986
L04-C12F	. Layer conversion, especially to semiconductor or conductor	1986	L04-C17D1	.. Permanent bonding	2002
L04-C12G	. Resistors	2006	L04-C17D2	.. Temporary bonding (TAB)	2002
L04-C12H	. Coating methods	2011	L04-C18	Testing of semiconductors and devices. Process monitoring and control	1986
L04-C12H1	.. PVD, CVD and Sputtering methods	2011	L04-C18A	. Process monitoring and control See also relevant L04-C and U11-C process codes and U11-F codes	2005
L04-C12H2	.. Other coating methods Includes electroplating, electroless plating, spraying and sol-gel techniques	2011	L04-C18B	. Testing methods/apparatus Includes measuring during processing and defect repair. See also U11-F codes	2005
L04-C12I	. Buried layers	2012	L04-C19	Marking of defective and other devices	1986
L04-C12J	. Gate insulating layers	2012	L04-C20	Encapsulation of semi-conductor device - general	1986
L04-C12K	. Other inorganic insulating layers Includes formation of carbide type insulating layers.	2013	L04-C20A	. Using resin	1986
L04-C13	Multilayer systems i.e. multiple conductive layers with intermediate insulating layers	1986	L04-C20B	. Using glass or other compsn.	1986
L04-C13A	. Forming through holes	1986	L04-C20C	. Appts. for encapsulation - moulds, handling equipment	1986
L04-C13B	. Forming through hole connections	1986	L04-C20D	. Encapsulating IC's chips with lead frames, assemblies	1986
L04-C14	Combinations of insulating and conductive film or layer formation	1986	L04-C21	Sealing devices into housings - using prefabricated resin or ceramic parts	1986
L04-C14A	. Capacitive elements i.e. for ROMs etc.	1994	L04-C22	Substrate manufacture Include novel substrate and treatment of such substrates	1986
L04-C15	Many stage process sequences	1986			
L04-C16	Heat treatment of semiconductors	1986			

L04-C23	Lead frame manufacture Include novel lead frames, lead frame manufacture and treatment. For attaching lead frames to devices see L04-C24.	1986	L04-D10	Ancillary equipment	1986
L04-C24	Attaching devices to lead frames	1986	L04-D11	Other apparatus Includes cleaning and testing of manufacturing apparatus. Can be used with other L04-D codes as appropriate.	2010
L04-C24A	. Attaching devices using TAB	1994	L04-E	SEMICONDUCTOR DEVICES	
L04-C25	Heat sinks	1986	L04-E01	Transistors - general	1986
L04-C26	Other treatment processes not specified above Includes spacers.		L04-E01A	. Field effect transistors (FET) Includes High electron mobility transistor (HEMT) and Fin transistor.	1986
L04-C27	Planarising	2002	L04-E01A1	.. Junction field effect transistors (JFET)	1986
L04-C28	Phase change materials and layers	2011	L04-E01B	. Metal oxide semiconductor transistors (MOST)	1986
L04-C29	Ashing	2012	L04-E01B1	.. Metal oxide semiconductor field effect transistors (MOSFET)	1986
L04-C30	Purification/gettering For single crystal/ingot purification and gettering, see L04-B02 codes	2012	L04-E01C	. Metal insulator semiconductor transistors (MIST, MISFET)	1986
L04-D	APPARATUS FOR SEMICONDUCTOR PROCESSING		L04-E01D	. Bipolar transistors Includes N-P-N and P-N-P	2002
L04-D	General	1986	L04-E01E	. Thin film transistors (TFT) Includes TFT switching elements for active matrix LCD devices	2002
L04-D01	Vapour deposition apparatus	1986	L04-E01F	. CHEMFET	2005
L04-D02	Cathode sputtering apparatus	1986	L04-E01G	. Phototransistors	2005
L04-D03	Liquid phase deposition apparatus	1986	L04-E01H	. Lab-on-chip see also J04-B02, S03-H01 and U13-D04B codes	2005
L04-D04	Ion or plasma bombardment apparatus	1986	L04-E02	Diodes, rectifiers	1986
L04-D04A	. Plasma etching apparatus	2007	L04-E02A	. Photodiodes	2005
L04-D04B	. Plasma bombardment apparatus for layer deposition	2007	L04-E03	Light emitting devices LED except where diode is specifically mentioned	1986
L04-D05	Furnaces for heat treatment	1986	L04-E03A	. Light-emitting diodes Includes OLED	1986
L04-D06	Diffusion apparatus	1986	L04-E03B	. Semiconductor lasers	1986
L04-D07	Soldering apparatus	1986			
L04-D08	Resist coating apparatus	1986			
L04-D09	Furnace furniture i.e. boats, crucibles, wafer supports	1986			

L04-E04	Thyristors	1986	L04-F05	Sealing circuits into packages or housings	
L04-E05	Light receiving and detecting devices	1986		Including single in-line and dual in-line systems	1986
L04-E05A	. Image sensors	1986	L04-F06	Hybrid circuits	1986
L04-E05B	. Photoconductors	1986			
L04-E05C	. Infrared detectors	1986	L04-X	ANCILIARY SEMICONDUCTOR MANUFACTURING PROCESS AND APPARATUS	
L04-E05D	. Photovoltaic devices, photoelectric cells	1986	L04-X	Unclassified	1986
	See L03-E05 for solar cells		L04-X01	Ultrapure water production for semiconductor processes	
L04-E05E	. Electrophotography	1986		see also J01 codes for specific treatment methods and apparatus	2005
L04-E05F	. Charge coupled devices (CCD)	1986	L04-X02	Processing of waste water from semiconductor manufacturing processes	
L04-E05G	. Photoresistors	2005		see also J01 codes for specific treatment methods and apparatus	2005
L04-E05H	. UV detectors	2013			
L04-E06	Integrated injection logic (IIL or I2L) devices	1986	L04-X03	Processing of waste gases from semiconductor manufacturing processes	
L04-E07	Hall effect devices	1986		see also J01 codes for specific treatment methods and apparatus	2005
L04-E08	Semiconductor switches	1986			
L04-E09	Superconductive devices (Josephson junction elements)	1986	L04-X04	Clean room apparatus and processes	
				see also J01 codes for specific treatment methods and apparatus	2006
L04-E10	Electromechanical sensors	1994	L04-X05	Semiconductor apparatus cleaning methods and compositions	2011
L04-E11	Memristor	2012			
L04-E15	Semiconductor memories	2005	L04-X06	Recycling and repairing semiconductor devices	
L04-E	General and unclassified	1986		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.	2011
L04-F	ASSEMBLIES OF SEMICONDUCTOR DEVICES TOGETHER AND/OR WITH OTHER DEVICES				
L04-F	General	1986			
L04-F01	Assembling devices on a substrate	1986			
L04-F02	Soldering devices together, on a substrate, or in a circuit	1986			
L04-F03	Integrated circuit systems	1986			
L04-F04	Integrated optical systems	1986			

**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.

M11-A	ELECTROLYTIC DEPOSITION OF METALS, ALLOYS	
M11-A	General	
M11-A01	Chromium	
M11-A02	Nickel or cobalt	
M11-A03	Copper	
M11-A04	Zinc	
M11-A05	Noble metals (Ru, Rh, Pd, Ag, Os, Ir, Pt, Au)	
M11-A06	Iron	
M11-A06A	. Iron	1972-2011
M11-A07	Tin	2002
M11-A09	Other specified metals	2002
M11-B	SPECIAL PROCESSES, CHEMICAL ADDITIVES	
M11-B	General	
M11-B01	Brighteners and levelling agents	
M11-B02	Multilayer deposition	
M11-B03	After-treatment, thermal	
M11-B04	Electroplating tubes, wire, etc.	
M11-B05	Plating of difficult surfaces E.g. non-conductors	

M11-B05A	. For electrical components E.g. printed circuits.	2006
M11-B06	Disposal/recovery used electrolytes/rinses Includes apparatus	
M11-B07	Control systems and servicing	
M11-B08	Laboratory methods	
M11-B09	Pretreatment of metallic substrates	1972
M11-B10	Electrolytic compositions	2002
M11-B11	Electrolytic coating containing embedded materials Includes particulates, whiskers, composite materials	2010
M11-C	APPARATUS FOR ELECTROPLATING	
M11-C	General	
M11-C01	Electrical aspects Includes electrodes, power supplies, etc.	2002
M11-C02	Mechanical aspects Includes baths, lifting mechanisms	2002
M11-D	ELECTROFORMING	
M11-D	General	
M11-E	ANODISING OF METALS	
M11-E01	Decorative, anticorrosive purposes	
M11-E02	Electrical purposes E.g. capacitor foil	
M11-E	General	
M11-F	ELECTROCHEMICAL FORMING NON-METALLIC LAYERS ON METALS	
M11-F	General Includes boriding, chromating, etc.	
M11-G	COATING METALS BY ELECTROPHORESIS	
M11-G	General	
M11-G01	Application of paint	
M11-H	ELECTROLYTIC CLEANING, ETCHING AND POLISHING	
M11-H	General	1986

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

M12 CHEMICAL CLEANING, INCLUDING DEGREASING

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

M13 NON-ELECTROLYTIC COATING

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

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

M13-G02A	. Targets Including materials and manufacture 2002
M13-G02B	. Magnetrons (in sputtering apparatus) See also V05-C codes 2007
M13-G03	Sputtering on metallic surfaces 2002
M13-G04	Sputtering on non-metallic surfaces 2002
M13-G05	Post treatment of coatings 2013
M13-H	OTHER COATING METHODS
M13-H01	Cladding Including weld deposition 1972
M13-H02	Sintering on 1972
M13-H03	Using adhesives 1972
M13-H04	Ceramic coatings, general 1972
M13-H04A	. Powder coatings 2006
M13-H05	Plastics coating, general 1972
M13-H05A	. Powder coatings 2006
M13-H06	Electrostatic coating, general 1972
M13-H	General and unclassified
M13-J	ENAMELLING AND VITREOUS COATING
M13-J01	Pre-treatment of surface
M13-J02	Enamelling/coating
M13-J03	After treatment Including de-enamelling
M13-J	General and unclassified 1972
M13-K	OIL-FREE LUBRICANT AND FRICTION COATINGS
M13-K	General
M13-K01	Lubricant coatings Including Teflon® coatings 2002
M13-K02	Friction Including coatings for bearings 2002

M13-L	CONTROL/TESTING
M13-L	General 1972
M13-M	PROTECTIVE LAYERS
M13-M	General 2002
M13-M01	Thermal barrier coating 2002
M13-M02	Wear resistant Includes abrasion resistant coating 2006
M13-M03	Oxidation resistant 2012

M14 OTHER CHEMICAL METAL SURFACE TREATMENT

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

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

M21 MECHANICAL WORKING OF METAL - WITHOUT METAL REMOVAL

M21-A	ROLLING METAL STOCK	
M21-A	General	
M21-A01	Rolling mills and methods, general and unclassified	
M21-A01A	. Hot rolling	2002
M21-A01B	. Cold rolling	2002
M21-A02	Rolling mill stands, components Including gears, bearings, etc.	
M21-A02A	. Rolls Including production of composite rolls, treatments such as grinding, polishing, heat, blooming	1986
M21-A02A1	.. Cleaning rolls Includes servicing	2011
M21-A03	Tube and pipe mills	
M21-A03A	. Strip, bar and wire (rod) mills	1986
M21-A03B	. Sheet, band and plate mills	1986
M21-A04	Feeding devices for mills	
M21-A05	Coilers, take-offs and cooling beds	
M21-A05A	. Descaling	2002
M21-A06	Rolling lubricants	
M21-A07	Control mechanisms and processes Including speed, tension, width, thickness, etc.	1986
M21-B	PRODUCTION OF METAL SHEET, WIRE ROD, TUBE OR PROFILE OTHER THAN BY ROLLING	
M21-B	General	
M21-B01	Metal drawing	
M21-B01A	. Processes	1986
M21-B01B	. Equipment Including dies, holders, mandrels, tools, etc.	1986
M21-B02	Metal extrusion	

M21-B02A	. Processes	1986
M21-B02B	. Auxiliary processes Including feeding and take off, heating of tools and containers, etc.	1986
M21-B02C	. Equipment	1986
M21-B02D	. Control devices, regulating devices etc.	1986
M21-B03	Metal working lubricants	
M21-B04	Tube bending, expanding etc.	1972
M21-C	PRODUCTION OF SEAMED, FINNED OR RIBBED TUBE	
M21-C	General	
M21-D	HIGH ENERGY RATE FORMING	
M21-D	General Includes explosive forming	
M21-E	WORKING SHEET METAL	
M21-E	General	
M21-E01	Bending, corrugating, flanging, straightening	
M21-E02	Punching, stamping and pressing	
M21-E03	Deep drawing, spinning, stretch forming	
M21-E04	Making sheet metal structures	1972
M21-F	WORKING WIRE	
M21-F	General	
M21-G	PRODUCTION OF PINS, NEEDLES, NAILS, FASTENERS	
M21-G	General	
M21-H	MAKING SPECIFIC ROLLED PRODUCTS	
M21-H	General	
M21-H01	Making sheet metal structures Of specified cross-section e.g. H-beam, I-beam	2002
M21-J	FORGING, HAMMERING, PRESSING, RIVETING	
M21-J	General	
M21-J01	Processes	1986

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

M22 CASTING, POWDER METALLURGY

M22-A	FOUNDRY MOULDING	
M22-A	General	
M22-A01	Mould or core composition	
M22-A02	Inorganic binders	
M22-A03	Organic binders	
M22-A04	Surface coating mould release compositions	
M22-B	MOULD MATERIAL HANDLING/DRESSING	
M22-B	General	
M22-B01	Mixing, grinding, kneading	
M22-B02	Sieving, separating, reclaiming	
M22-B03	Cooling or drying	
M22-C	PATTERNS	
M22-C	General	
M22-C01	Lost patterns	
M22-C02	Plates and core boxes	
M22-D	MOULD/CORE DESIGN/PRODUCTION	
M22-D	General	
M22-E	MACHINES FOR MOULD/CORE MAKING	
M22-E	General Used in place of M22-F	
M22-F	MOULDING MACHINES	
M22-F	General See also M22-E	
M22-G	METAL CASTING	
M22-G	General	
M22-G01	Casting pigs for remelting, etc.	
M22-G02	Casting ingots for subsequent rolling, forging	
M22-G02A	. Ingot casting methods	
M22-G02B	. Ingot moulds, hot tops and linings	
M22-G03	Casting machines and processes	
M22-G03A	. Continuous and line casting	
M22-G03A1	.. Moulds	1977
M22-G03A1A	... Roll	2002

M22-G03A1B	... Endless belt	2002	M22-G03H	. Fettling and post-treatment of castings See M24-D02 and M29-C for thermal treatment	
M22-G03A2	.. Withdrawal equipment	1977	M22-G03J	. Control/testing of casting	1977
M22-G03A3	.. Cooling	1977	M22-G03K	. Making specific cast products	1977
M22-G03A4	.. Tundish	2002	M22-G03K1	.. Turbine components	2002
M22-G03B	. Centrifugal		M22-G03K1A	... Aerospace	2002
M22-G03C	. Chill		M22-G03K1B	... Power generation	2002
M22-G03C1	.. Using moulds or cores with high thermal conductivity	1986	M22-G03K2	.. Internal combustion engine components Includes blocks, cylinder heads and bores	2002
M22-G03D	. Die		M22-G03L	. Directional solidification	2002
M22-G03D1	.. Methods	2002	M22-G03L1	.. Single crystals	2002
M22-G03D2	.. Apparatus	2002	M22-G03M	. Rapid solidification processes (RSP's)	2002
M22-G03E	. Vacuum and low pressure casting		M22-G03M1	.. Metallic glasses	2002
M22-G03F	. Other methods		M22-G03N	. Investment casting	2002
M22-G03G	. Ladles, casting furnaces and equipment				
M22-G03G1	.. Nozzles, stoppers	1977	M22-H	POWDER METALLURGY	
M22-G03G2	.. Linings Includes repair	1977	M22-H	General	
M22-G03G2A	... Sacrificial	2002	M22-H01	Metal/alloy powders, granulates, fibres production Includes production of suspensions when details of the metal powder production are given.	
M22-G03G2B	... Permanent	2002	M22-H02	Powder treatment prior to use	
M22-G03G3	.. Dies, moulds etc. (other than for foundry casting)	1986	M22-H03	Sintered articles, coating manufacture	
M22-G03G4	.. Treatment of metal in the mould while it is molten or ductile (by shaking, vibrating, using magnetic or electric fields etc.)	1986	M22-H03A	. Compacting	
M22-G03G5	.. Mould furniture Includes dams, weirs, etc.	2002	M22-H03B	. Sintering	
M22-G03G6	.. Filters	2002	M22-H03C	. Compacting and sintering	
M22-G03G7	.. Mold cleaning apparatus and process	2011	M22-H03D	. Fibre reinforcement	
M22-G03G8	.. Apparatus for handling molds	2011	M22-H03E	. Post treatment/impregnation	
			M22-H03F	. Composite layers, materials	
			M22-H03F1	.. Metal matrix composites (MMCs)	2002
			M22-H03F2	.. Ceramic matrix composites (CMCs)	2002

M22-H03G . Powder metal products

1972

M23 SOLDERING, WELDING

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

M23-D01C	. Arc welding types	2002
M23-D01C1	.. Tungsten inert gas (TIG) E.g. Gas tungsten-inert gas (GTAW), tungsten arc gas shield (TAGS)	2002
M23-D01C2	.. Metal inert gas (MIG) E.g. Metal arc gas shield (MAGS)	2002
M23-D01C3	.. Manual metallic arc (MMA)	2002
M23-D01C4	.. Plasma	2002
M23-D02	Resistance welding	
M23-D02A	. Methods	1972
M23-D02A1	.. Butt welding	1986
M23-D02A2	.. Seam welding	1986
M23-D02A3	.. Spot welding	1986
M23-D02A4	.. Other processes	1986
M23-D02A5	.. Specially adapted for particular work	1986
M23-D02B	. Apparatus and circuits	1972
M23-D02B1	.. Circuits	1986
M23-D02B2	.. General apparatus	1986
M23-D03	Induction heating	
M23-D04	Electron beam	
M23-D05	Laser beam	
M23-D06	Spark erosion	
M23-D07	Electroslag welding	1972
M23-E	OTHER WELDING AND CUTTING PROCESSES	
M23-E01	Forge or friction welding	1994
M23-E02	Alumino-thermic and explosive welding	
M23-E03	Hard facing, general	1972
M23-E04	Ultrasonic welding	2011
M23-E	Unclassified and general	

M23-F	WELDING RODS, ELECTRODES AND FLUXES	
M23-F	General	
M23-G	INSPECTION AND CONTROL METHODS	
M23-G	General	
M23-H	ANCILLARY EQUIPMENT	
M23-H	General Includes equipment for cleaning welding devices	
M23-J	SPECIAL WELDING FEATURES	1972
M23-J	General	
M23-K	SPECIALLY PROFILED EDGE PORTIONS OF WORKPIECES FOR MAKING SOLDERING OR WELDING CONNECTIONS	2012
M23-K	General	

M24 METALLURGY OF IRON AND STEEL

M24-A	MANUFACTURE OF IRON AND STEEL	
M24-A01	Treatment of iron ores and materials	
M24-A01A	. Roasting, briquetting and sintering	1986
M24-A01B	. Treatment of cokes Including coke ovens	1986
M24-A02	Blast furnace pig manufacture	
M24-A02A	. By applying additives (fluxing agents etc.)	1986
M24-A02B	. Making slags of special composition	1986
M24-A02C	. General	1986
M24-A03	Sponge iron or liquid steel production	
M24-A04	Metallothermic processes	
M24-A05	Apparatus for iron/steel production	
M24-A05A	. Linings	1986
M24-A05B	. Cooling devices	1986
M24-A05C	. Discharge devices	1986
M24-A05D	. Tuyeres	1986
M24-A05E	. Stoves for heating blast	1986
M24-A05E1	.. Preheating, cooling or drying hot blast	1986
M24-A05F	. Charging devices	2012
M24-A06	Analysis, control and laboratory methods for refining	
M24-A07	Scrap and slag treatment	1972
M24-A07A	. Working up flue dust and scrap	1986
M24-A07B	. Working up slag	1986
M24-A07C	. Working up waste water, slurry and sludge	2011
M24-A	Other processes	

M24-B	PROCESSING IRON AND STEEL	
M24-B01	Processing iron, (to produce)	
M24-B01A	. Pig iron	
M24-B01B	. Cast iron	
M24-B01C	. Wrought iron	
M24-B02	Processing steels, (by)	
M24-B02A	. Crucible process	
M24-B02B	. Hearth process	
M24-B02C	. Converter process	
M24-B02D	. Electro process	
M24-B02E	. Specified but unclassified	
M24-C	TREATMENT OF IRON AND STEEL MELTS	
M24-C01	Dephosphorising; desulphurising	
M24-C02	Killing	
M24-C03	Balancing	
M24-C04	Removing other impurities	
M24-C05	Inoculation and spheroidising Including nodulizing treatment of molten iron	
M24-C06	Decarburising	1986
M24-C07	Use of slags or fluxes as treating agents	1986
M24-C08	Alloying of ferrous melts	1986
M24-C09	Apparatus for treatment of melts Including lances, nozzles, stirrers, etc.	1986
M24-C10	Degassing	2012
M24-C	General	
M24-D	CHANGING PHYSICAL PROPERTIES IRON STEEL	
M24-D	General	
M24-D01	Mechanical working	
M24-D01A	. Hot working	
M24-D01A1	.. Rolling	2006
M24-D01B	. Cold working	
M24-D01B1	.. Rolling	2006
M24-D01C	Mechanical alloying	2002
M24-D02	Heat treatment, general	

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

M25 NON-FERROUS METAL PRODUCTION/REFINING

M25-A	GENERAL ORE TREATMENT	
M25-A01	Concentration	
M25-A01A	. By dry methods	1986
M25-A01B	. By wet methods Including flotation	1986
M25-A02	Crushing, roasting, briquetting, sintering	
M25-A	Other processes	
M25-B	WET EXTRACTION OF METALS AND METAL COMPOUNDS	
M25-B	General	
M25-B01	Precipitation as an insoluble compound E.g. hydrolysis	1986
M25-B02	Reduction with hydrogen or metal causing metal precipitation from solution	1986
M25-B02A	. Using metal chlorides E.g. for Ti production	2002
M25-B03	Ion exchange Including absorption on resin	1986
M25-B04	Solvent extraction i.e. complexing by organic reagents	1986
M25-C	DRY REDUCTION TO METAL	
M25-C	General	
M25-C01	Apparatus	1972
M25-C02	Methods	1972
M25-D	REDUCTION OF METAL CARBONYLS	
M25-D	General	
M25-E	WORKING UP SCRAP, FLUE DUST OR SLAG	
M25-E	General	
M25-E01	Working up of waste water, waste slurry or sludge	1986
M25-E02	Working up scrap, flue dust or slag	2002

M25-F	REFINING BY OTHER METHODS	
M25-F	General	
M25-F01	Vacuum refining	2005
M25-F02	Bioremediation using microorganisms	2005
M25-F03	Phytoremediation and phytomining	2005
M25-F04	Low gravity and zero gravity processing	2005
M25-G	OBTAINING SPECIFIC METALS	
M25-G	General	
M25-G01	Aluminium	
M25-G02	Antimony	
M25-G03	Arsenic	
M25-G04	Alkali metal	
M25-G05	Alkaline earth metal	
M25-G06	Beryllium	
M25-G07	Bismuth	
M25-G08	Copper	
M25-G09	Cadmium	
M25-G10	Chromium	
M25-G11	Cobalt	
M25-G12	Germanium	
M25-G13	Indium	
M25-G14	Lead	
M25-G15	Mercury	
M25-G16	Magnesium	
M25-G17	Manganese	
M25-G18	Molybdenum	
M25-G19	Nickel	
M25-G20	Noble metals Excluding Ag - see M25-G22	
M25-G21	Rare earths	
M25-G22	Silver	
M25-G23	Tin	
M25-G24	Titanium	
M25-G25	Uranium	
M25-G26	Vanadium	
M25-G27	Zinc	
M25-G28	Other metals	

M25-H	ANALYSIS, CONTROL AND LABORATORY METHODS	
M25-H	General	
M25-J	APPARATUS FOR NON-FERROUS METAL PRODUCTION	1972
M25-J	General	
M25-X	OTHER NON-FERROUS METAL PROCESSING	
M25-X	General and unclassified	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.

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

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

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

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

N01-D03

. **Silicon and other silicon compounds**
1994

Previous code(s): N01-D

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

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

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

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

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

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

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

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

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

N06 MOLECULAR SIEVE, ZEOLITE, SPECIAL FORM, GENERAL

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

N06-E01	. Catalyst preparation, activation, pretreatment 2002
N06-E02	. Catalyst regeneration, reactivation 2002
N06-E03	. Catalyst recovery (metals, values, ligands) 2002
N06-F	Catalyst support 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	Catalyst promoter Includes catalyst accelerator. 2010
N06-H	Phase transfer catalyst 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.

N07	GENERAL, UNCLASSIFIED, NO SPECIFIC REACTION REPORTED	2002
N07-A	Catalytic Reactions, General	2002
N07-B	Hydrogenation, hydrogenesis, reduction	2002
N07-B01	. Hydrogenation of unsaturated C-C bonds	2006
N07-B02	. Hydrogenation other	2006
N07-C	Oxidation, dehydrogenation - general or unclassified	2002
N07-C01	. Oxidation with O ₂ , air	2002
N07-C02	. Dehydrogenation of C-C bonds	2006
N07-C03	. Other Oxidation, Dehydrogenation process	2006
N07-D	Addition/substitution reactions - general or unclassified	2002
N07-D01	. Oligomerisation, telomerisation	2002
N07-D01A	.. Dimerisation	2022
N07-D02	. Addition reactions of CO and/or CO ₂ : general or unclassified	2002
N07-D02A	.. Addition of CO to olefinic bonds: oxo reaction, hydroformylation, etc.	2002
N07-D02B	.. Other addition reactions of CO(2)	2002
N07-D03	. Alkylation, arylation, acylation of C-Atoms	2002
N07-D04	. Condensation reactions; other C-C chain extension	2002

N07-D05	. Hydration, hydroxylation	2002
N07-D06	. Etherification, acetalisation, O-alkylation	2002
N07-D07	. Esterification, O- acylation, anhydride formation	2002
N07-D08	. Addition of nitrogenous functions - general or unclassified	2002
N07-D08A	.. Amination, N- alkylation, N-acylation	2002
N07-D08B	.. Ammonoxidation (ammonia-oxidation) of organics (oxidn. of NH ₃ , see N07-J, inorganic reactions)	2006
N07-D08C	.. Nitration	2006
N07-D08D	.. Amidine or guanidine formation Reactions involving formation of amidine or guanidine group which may be cyclic or acyclic.	2016
N07-D08E	.. Other specific nitrogenous function formations Formation of azo or azide and other specific nitrogenous functions not covered under N07-D08A to N07-D08D.	2022
N07-D09	. (Hydro)halogenation	2002
N07-D10	. Addition of sulphur functions, e.g. sulphonation	2002
N07-D11	. Addition of boron, silicon, phosphorus and other functions	2010
N07-D11A	.. Addition of boron functions	2010
N07-D11B	.. Addition of silicon functions	2010
N07-D11C	.. Addition of phosphorus functions	2010
N07-D11D	.. Addition of other functions	2010
N07-E	Isomerisation and exchange reactions - general or unclassified	2002
N07-E01	. Isomerisation, metathesis, disproportionation of olefinic compounds	2002

N07-E02	. Isomerisation reactions of other hydrocarbons; reforming 2002	N07-F11	. Desulfurization Applied where desulfurization takes place within the molecule to give a new product. 2014
N07-E03	. Transesterification, ether/acetal exchange 2002	N07-G	Electrocatalytic reactions 2002
N07-E04	. Racemisation 2002	N07-H	Co-ordination complex, organometallic complex, and salt formation reaction Includes salts of organic ammonium compounds and salts of alcohols and counter ions. 2014
N07-E05	. Rearrangement reactions Any rearrangement reaction which gives a non-isomeric product e.g. Beckmann rearrangement. 2016	N07-J	Catalyst use in the production of inorganics 2002
N07-E06	. Asymmetric/enantioselective synthesis Catalytic reactions in which single reactants forms unequal mixture of stereoisomers or any one of specific isomer product. 2016	N07-K	Other chemical reactions 2002
N07-F	Elimination/cleavage reactions - general or unclassified 2002	N07-K01	. Catalyst for Green Chemistry Catalyst used in an environmentally-friendly process or in degradation of pollutants. 2010
N07-F01	. Decarboxylation, decarbonylation 2002	N07-L	Other catalyst applications and uses - unclassified 2002
N07-F02	. Dealkylation, cracking, depolymerisation, other C-C bond 2002	N07-L01	. Purification/waste disposal processes - unclassified 2002
N07-F03	. De(hydro)halogenation 2002	N07-L01A	.. Catalytic combustion/oxidation of waste 2002
N07-F04	. Ring expansion, contraction cleavage 2002	N07-L01B	.. Water purification; wastewater treatment 2002
N07-F05	. Chain Expansion/Contraction 2006	N07-L01B1	... Industrial effluent treatment Mechanism and process used to treat waters that have been contaminated by industrial or commercial activity. 2011
N07-F06	. Hydrolysis, dehydration, dehydroxylation 2010	N07-L01C	.. Gas purification; waste gas treatment 2002
N07-F06A	.. Hydrolysis 2010	N07-L01C1	... Engine exhaust treatment 2002
N07-F06B	.. Dehydration, dehydroxylation 2010	N07-L01D	.. Purification, (hydro)treatment of non-gaseous hydrocarbons 2002
N07-F07	. Cyclisation 2006	N07-L01E	.. Purification of other substances 2002
N07-F07A	.. Carbocyclic cyclisation Formation of carbocyclic rings. 2021	N07-L02	. Removal/treatment of impurities/compounds - general 2002
N07-F07B	.. Heterocyclic cyclisation Formation of heterocyclic rings. 2021	N07-L02A	.. Removal/treatment of halogen (compounds) 2002
N07-F08	. Decyclisation 2006		
N07-F09	. Elimination/cleavage of N functions 2010		

N07-L02B	.. Removal/treatment of sulphur (compounds)	2002
N07-L02C	.. Removal/treatment of nitrogen (compounds)	2002
N07-L02D	.. Removal/treatment of carbon (compounds)	2002
N07-L02E	.. Removal/treatment of metal (compounds)	2002
N07-L02F	.. Removal/treatment of other impurities/compounds	2002
N07-L03	. Other processes/uses; general	2002
N07-L03A	.. Batteries, fuels cells	2002
N07-L03B	.. Detection processes Detection process where catalyst is used as part of detecting agent.	2010
N07-L03C	.. Catalyst used in resolution Catalytic process in which mixture of optical isomer is separated into D- and L form.	2022

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
	N06-C09
	M26-C02

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

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

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.

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

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

GREEN FUELS**biofuels**

produced from algae

B14-Y

C14-Y

gaseous biofuels

H06-A04

biogas

H06-A04

ethane

H06-A04

structural details

E10-J02D2

hydrogen

H06-A03

production by electrical means

E31-A02A

hydrogen generation-fuel cell

L03-E04I

X16-C17

hydrogen reformer-fuel cell

X16-C17

hydrogen storage-fuel cell

X16-C15

molecular decomposition of

V05-F08F

hydrocarbons (plasmatron)

methane

H06-A04

structural details

E10-J02D1

produced by fermentation

D05-C14

liquid biofuels

H06-B07

alcohol

H06-B08

bioalcohol

H06-B08

biodiesel

H06-B04A

bioether

H06-B07

butanol

H06-B08

ethanol

H06-B08

propanol

H06-B08

vegetable oil

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 ₂ S	E31-F01B
removal of S oxide SO ₂ , SO ₃ , SO _x	E31-F01A
removal of sulphur compounds	E31-F01
	N07-L02B
H ₂ SO ₄ , thiosulfate	E31-F01C
WATER/WASTE TREATMENT	E11-Q02
	N07-L01
green water processing	D04-D
industrial waste/effluent treatment	H09-F02
	E11-Q02B
capacitor manufacture	
electrolytic	V01-B01G6E
non-electrolytic	V01-B04B8E
semiconductor manufacture	U11-C15Q
	L04-X02
resistor manufacture	V01-A04R1
municipal/agricultural waste treatment	H09-F03
polymer waste treatment	A11-C07
purification of non-gaseous hydrocarbons	N07-L01D
removal of materials/compounds	
removal of carbon compounds	N07-L02D
removal of catalyst poisons	E11-Q02C
removal of impurities in general	N07-L02
removal of halogen compounds	N07-L02A
removal of metal compounds	N07-L02E
removal of nitrogen compounds	N07-L02C
removal of sulphur compounds	N07-L02B
removal of unwanted chemical	E11-Q02C
reaction byproducts	
sewage treatment	D04-A01J
	D04-B10
	D04-B11
	D05-A04A
electrical systems	X25-H03
incineration of sludge	D04-B10B
pyrolysis of sludge	D04-B10B
<i>organic waste, town waste or sludge fermentation</i>	D05-A04A
waste disposal processes/purification	N07-L01
catalytic combustion of waste	N07-L01A
waste water treatment	N07-L01B
	X25-H03
waste water from paper manufacture	F05-A02C
sewage sludge removal/treatment	D04-B10
electrical systems	X25-H03
dewatering sludge	D04-B10A
water treatment	D04-A01J
	N07-L01B
<i>compositions</i>	A11-W11J
removing coal slurry	D04-B03
removing hydrocarbons	D04-B03
removing impurities	D04-B
removing inorganic cyanides	D04-B07A
removing inorganic fluorine compounds	D04-B07E
and (thio)cyanates	
removing inorganic nitrogen compounds	D04-B07C
removing inorganic phosphorous	D04-B07B
removing inorganic sulphur compounds	D04-B07D
removing metals	D04-B05
heavy metals	D04-B05A
neutralising chromium	D04-B05A
removing lead	D04-B05A
removing mineral oil	D04-B03

removing natural products	D04-B04
clarification of water containing fat	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
RECYCLING/RECOVERY OF MATERIALS	
electrical recycling equipment	X25-W04
<i>chemical extraction, recovery, purification</i>	<i>E11-Q01</i>
polymer scrap recovery/recycling	A11-C03
recycling electrical components, equipment, and material	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>	<i>V05-L07E6</i>
<i>record carrier recycling and destroying</i>	
general	T03-H02R
magnetic	T03-A01R
magneto-optical	T03-D01R
optical	T03-B01R
<i>resistor materials</i>	<i>V01-A04R2</i>
TV receiver	W03-A19C
semiconductors	U11-H
	L04-X06
recycling/recovery of ceramic	L02-A01
recycling/recovery of fuels	H06-X03
recycling/recovery of glass	L01-B02
recycling/recovery of paper	X25-T09G
	F05-A02B
in copier/printer/fax/scanner	S06-K04A
recycling/recovery of toner	S06-K04B
recycling waste gases	
from semiconductor manufacture	L04-X03
recycling waste water	D04-A06
from semiconductor manufacture	L04-X02
recovery of fibres	F03-E02
<i>recovery of ferrous metals</i>	<i>M24-A07</i>
<i>recovery of non-ferrous metals</i>	<i>M25-E</i>
recovery of organic products/waste	D05-A04A
e.g. for fertilizer production	
regeneration of pulp liquors during paper and fibre-board mfr.	F05-A02C
other	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

testing

B11-C01E
C11-C01E
D05-H18B
B11-C08E3
C11-C08E3
B11-C08E5
C11-C08E5
B11-C08F8
C11-C08F8
B12-K04F
C12-K04F
D05-H09
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

by viral methods

D05-H20
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

vectors, plasmids, cosmids, transposonsC04-E99
B04-E08
C04-E08
D05-H12E**PRODUCTION OF RECOMBINANT PROTEINS****fusion proteins**

D05-H17C

comprising antibody or antibody fragments

D05-H17C1

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 C04-G2300E
general	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 Y	B04-G27Y0E C04-G27Y0E
monoclonal	B04-G2100E C04-G2100E D05-H11A2
murine	B04-G01D0E C04-G01D0E
polyclonal	B04-G2200E C04-G2200E D05-H11B
enzymes, catalytic proteins	
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 C04-L0300E

	oxygenases	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
hormones		
	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 B04-J05A0E C04-J05A0E B04-J1200E C04-J1200E B04-J1000E C04-J1000E B04-J0900E C04-J0900E B04-J1400E C04-J1400E B04-J0400E C04-J0400E B04-J05F0E C04-J05F0E B04-J0800E C04-J0800E
oxytocin	
secretin	
somatostatin	
somatotropin-releasing factor	
tachykinins	
thyroid and parathyroid (general/other)	
thyroid stimulating hormone	
thyrotropin releasing hormone	
modifiers of cell function and growth	
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
interleukin (general)	B04-H0200E C04-H0200E
interleukin 1	B04-H02A0E C04-H02A0E

interleukin 2	B04-H02B0E C04-H02B0E
interleukin 3	B04-H02C0E C04-H02C0E
interleukin 4	B04-H02D0E C04-H02D0E
interleukin 5	B04-H02F0E C04-H02F0E
interleukin 6	B04-H02G0E C04-H02G0E
interleukin 7	B04-H02H0E C04-H02H0E
interleukin 8	B04-H02J0E C04-H02J0E
interleukin 9	B04-H02K0E C04-H02K0E
interleukin 10	B04-H02L0E C04-H02L0E
interleukin 11	B04-H02M0E C04-H02M0E
interleukin 12	B04-H02N0E C04-H02N0E
interleukin 13	B04-H02P0E C04-H02P0E
interleukin 14-20	B04-H02Q0E C04-H02Q0E
interleukin 21-25	B04-H02R0E C04-H02R0E
interleukin 26-30	B04-H02S0E C04-H02S0E
interleukin 31-35	B04-H02T0E C04-H02T0E
leukemia inhibitory factor	B04-H0900E C04-H0900E
lymphotoxin	B04-H1300E C04-H1300E
macrophage colony stimulating factor	B04-H04B0E C04-H04B0E
macrophage derived growth factor	B04-H06C0E C04-H06C0E
macrophage inflammatory protein	B04-H1100E C04-H1100E
megakaryocyte colony stimulating factor	B04-H04D0E C04-H04D0E
megakaryocyte potentiator	B04-H1200E C04-H1200E
mullerian inhibitory substance	B04-H1000E C04-H1000E
muscle proteins (general)	B04-H20C0E C04-H20C0E
myosin	B04-H20C2E C04-H20C2E
nerve growth growth factor	B04-H06D0E C04-H06D0E
plasminogen activator	B04-H1500E C04-H1500E
platelet activating factor	B04-H1400E C04-H1400E
platelet derived growth factor	B04-H06B0E C04-H06B0E
prostatic growth factor	B04-H06J0E C04-H06J0E

somatomedins	B04-H06H0E C04-H06H0E
stem cell factor	B04-H1600E C04-H1600E
sulphation 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
other protein/polypeptide	
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-N01B0E C04-N01B0E
prions	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
<i>patent with a Geneseq record</i>	<i>B04-E99</i> <i>C04-E99</i>
receptors	
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 C04-K01Y1E
modifier of cell function and growth receptor (other)	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 C04-F0300E
hybridoma (general)	B04-F0500E C04-F0500E <i>D05-H15A</i>
lymphocytes (general)	B04-F04B1E C04-F04B1E
mammalian (including human)	B04-F0200E C04-F0200E <i>D05-H14B2</i>
other animal, non-mammalian (general)	B04-F0700E C04-F0700E <i>D05-H14B4</i>
other white blood cells (general)	B04-F04B2E C04-F04B2E
ova	B04-F0300E C04-F0300E
plant	B04-F0800E C04-F0800E <i>D05-H14B3</i>
platelets	B04-F1300E C04-F1300E
red blood cells	B04-F04A0E C04-F04A0E
reptile	B04-F07B0E C04-F07B0E <i>D05-H14B4</i>
sperm	B04-F0300E C04-F0300E
stem cells (mammalian)	B04-F02B0E C04-F02B2E <i>D05-H14B2</i>
unspecified cell lines	B04-F0100E C04-F0100E <i>D05-H14B</i>
white blood cells (general)	B04-F04B0E C04-F04B0E
microbial cells	
adenovirus	B04-F11A1E C04-F11A1E <i>D05-H12F</i>
algae	B04-F08A0E C04-F08A0E
Aspergillus	B04-F09A0E C04-F09A0E <i>D05-H14A2</i>
Bacillus	B04-F10B1E C04-F10B1E <i>D05-H14A1</i>
bacteria (general)	B04-F1000E C04-F1000E <i>D05-H14A1</i>
Bordetella	B04-F10A1E C04-F10A1E <i>D05-H14A1</i>
Borrelia	B04-F10A2E C04-F10A2E <i>D05-H14A1</i>

Coronavirus	B04-F11B2E C04-F11B2E D05-H12F
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
TRANSGENIC ORGANISMS		
animals		
	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
plants		
	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
plant extracts	
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

	stem	C04-A10G0E B04-A10J0E
	straw	C04-A10J0E B04-A10J0E
	wood	C04-A10J0E B04-A10H0E
	wood shaving	C04-A10H0E B04-A10H0E C04-A10H0E
plant parts		
	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
TRANSOMATIC ORGANISMS		
	animals	D05-H16C
	plants	D05-H16D

CPI INDEX

A

		electrical	A12-E06+	Acetylenic hydrocarbon	B10-J01 C10-J01 E10-J01
		Acenaphthene	B08-D03 C08-D03 E08-D03		
Abietic acid	A03-C02 B09-D01 C09-D01 E09-D01	Acenaphthylene (co)polymers monomer	A04-C A01-D03	Acid adhesion promotor for polymer	A08-M01C
Abortifacient	B14-P01B C14-P01B	Acetal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Acid anhydride - see under appropriate acid	
Abrasion reducers (polymer use)	A12-H10	resin (polyoxy methylenes)	A05-H02+	Acid crosslinkers for ethylenically unsaturated unsaturated and addition polymers other resins	A08-C+ A08-D02
Abrasive compositions for household cleaning	D11-D01B3	Acetal, polyvinyl	A10-E02	Acid detergent additive	D11-B13
non polymeric papers	G04-B04 A12-A03	Acetaldehyde	B10-D01 C10-D01 E10-D01 A01-E10	Acid dyes for dyeing/ printing fibres	F03-F21
Abrasives	L02-F	condensant	A01-E10	Acid esterified/ esterification of polymer	A10-E07+
abrasives for detergents	D11-B09	Acetalised polymers	A10-E02	Acid halide - see under appropriate acid	
ABS copolymer	A04-C03	Acetate, cellulose	A03-A02+ B04-C02A3 C04-C02A3	Acid refractories	L02-E03
Absorbents	B12-M21 C12-M21	Acetate, vinyl - see Vinyl acetate		Acid treatment in petroleum refining	H04-A05
for gas separation	J01-E03C	Acetate-butyrate, cellulose	A03-A02+ A03-A03 B04-C02A3 C04-C02A3	Acid, carboxylic see carboxylic acid	
for gas storage	J06-B06	Acetic acid - see also Vinegar	B10-C04E C10-C04E E10-C04J E10-C04J2 E10-C04J2P E10-C04J2U	Acidising (in well treatment)	H01-C04
for liquid treatment	J01-D01	production		Acidosis disease treatment	B14-S13A C14-S03A
for waste gases	J01-E02B	use		Acne	B14-N17D C14-N17D
polymer additives	A08-S08	Acetone	B10-F02 C10-F02 E10-F02	Acoustic insulation	A12-R06 A12-S+ F04-E06 L02-D15 L02-D15C
super absorbents	A12-W13	condensant	A01-E10	boards	L02-D15C
Absorption on resin, non-ferrous metal extraction	M25-B03	formaldehyde resins	A05-J08	ceramic oxides	L02-G06
Absorption process for water purification	D04-A01F	Acetophenone	E10-F02A	foam: other	A12-S04B
Absorption property of polymers	A09-A08	crosslinking agent:		polystyrene	A12-S01
Abzyme	B04-G20 C04-G20 D05-H11C	for ethylenically unsaturated and addition polymers	A08-C	polyurethane	A12-S02F
Acaricide	B12-B04 B14-B04A C12-B04 C14-B04A	for other resins	A08-D	vehicles	A12-T04B
Accelerator	B12-M21 C12-M21	photopolymerisation catalyst	A02-A09	Acoustic well logging	H01-A02C
for catalysts	N06-G	Acetyl choline potentiator	B12-E05 B14-J02A1 C12-E05 C14-J02A1	Acridine	B06-D11 C06-D11 E06-D11
Accelerator for particles	K08-X L03-H04D	Acetylene	B10-J01 C10-J01 E10-J01 A04-A02 H09-E A01-B02	Acrolein	B10-D01 C10-D01 E10-D01
photographic development	G06-H12	(co)polymers	A04-A02	(co)polymers	A04-F02
Accelerators for blowing agents	A08-M	fuel composition containing monomer	H09-E	monomer	A01-D05
Accelerators for crosslinkers for olefinic unsaturated and addition polymers	A08-C03 A08-D+	production by wet methods	H09-E	production	E10-D01A
for other resins	A08-D+	purification	H09-E	Acrylamides	E10-D03C
Acceptor layers, photographic	A12-L02F G06-A04	Acetylene black	A08-R03 E31-N G01-A11	(co)polymers	A04-D04+
Acceptors, electron; (de-sensitisers)	G06-H06	Acetylenic compounds containing double bond(s)		monomer	A01-D06
Accessories for knitting machines	F02-B04	(co)polymers	A04-A01	Acrylate, alkyl	E10-G02
papermaking machines	F05-A05	monomer	A01-B01	(co)polymers	A04-F06+
sewing	F02-F01B+			monomer	A01-D10B
Accumulator	L03-E			Acrylated epoxy resin process	A05-A+ A10-E07B
cryogenic	J07-D03			product	A10-E07B
				Acrylated polymers (i.e. acrylic acid(s) esterified)	A10-E07B

Acrylated polyurethanes (NCO terminated prepolymer + hydroxyalkyl acrylates) process	A05-G+ A10-E24 A10-E24	Acrylic nitriles polymer based paint	A12-B01E G02-A02C4	Adamantane	B09-D01 C09-D01 E09-D01
product		Acrylic paint, varnish or lacquer	A12-B01E G02-A02C+	Addition (co)polymers in polymeric blends	A07-A+
Acrylic (co)polymer aqueous dispersions/latexes	A07-B02	Acrylic polyelectrolytes	A12-M01	Addition polymer adhesive, binder	A12-A05B+ G03-B02D+
Acrylic acid (co)polymers	E10-C04G+ A04-F04	Acrylic polymer coatings on metal	A12-B01E A12-B04D	stabilisers, general	A08-A01A
monomer	A01-D08	Acrylonitrile	B10-A15 C10-A15 E10-A15	Addition polymerisation	A10-B+ A10-C+
Acrylic acid aldehyde - see Acrolein		(co)polymers	A04-D03+	Addition of Boron functions	E11-F10C
Acrylic acid amides - see Acrylamides		(co)polymers with butadiene	A04-B04	Addition of other heteroatom functions	E11-F10D
Acrylic acid anhydride (co)polymers	A04-F04	(co)polymers with butadiene and styrene	A04-C03	Addition of Phosphorus functions	E11-F10A
monomer	A01-D08	homopolymer	A04-D02+	Addition of Silicon functions	E11-F10B
Acrylic acid esterified by aminoalcohol		monomer	A01-D04	Addition process (chemical)	B11-C01 C11-C01 E11-F+
(co)polymers	A04-D09	Acrylonitrile (co)polymer fibre	A04-D02B A04-D03B	monomer	
monomer	A01-D07 A01-D10B	chemical features of dyeing/printing	F01-D02 F03-F05	catalytic	N07-D+
Acrylic acid esters, diolefinic (co)polymers	A04-B09	Acrylonitrile- butadiene- styrene copolymer (ABS)	A04-C03	Addition reactions of carbonyl (C=O)	
monomer	A01-C01	Acryloyl halides - see Acrylic acid halides		other than hydroformylation	E11-F02B
Vinyl acrylate	E10-G02D1 E10-G02H2A	ACTH (Adrenocorticotrophic hormone)	B04-B02D4 B04-J05D C04-B02D4 C04-J05D	other than to olefinic bonds	E11-F02B
Acrylic acid esters, monoolefinic		Actin	B04-H20C1 C04-H20C1	hydroformylation	E11-F02A
(co)polymers	A04-F06	Actinic radiation - see UV irradiation		to olefinic bonds	E11-F02A
monomer	A01-D10B	Actinide, actinoid (element 89+) catalysts	N03-A	Addition reactions of carboxylate (CO2)	E11-F02B
production	E10-G02D3	Actinium compounds	B05-A03 C05-A03	Addition reactions of nitrogenous functions	E11-F07
use	E10-G02H2C	inorganic	E35-Y	Additive colour systems, for photosensitive systems	G06-C13
Acrylic acid halides (co)polymers	A04-E	organic	E05-Q	Additives for	
monomer	A01-D12	Actinomycin	B02-A C02-A	cement	L02-C08
Acrylic acid, metal salts - see corresponding Acrylic acid entry		Activated carbon	J01-E02B3 J01-E03C3	concrete	L02-D14
Acrylic acids polymer paint	A12-B01E G02-A02C4	Activators for		fodder	D03-G01
Acrylic acid production	E10-C04G1A	concrete setting	L02-D14A	fuels	H06-D
Acrylic acid use	E10-C04G2A	crosslinking	A08-C02 A08-D+	lubricants	H07-G
Acrylic adhesive	F02-A05B1 G03-B02D1	polymerisation catalysts	A02-A+	polymers	A08+
Acrylic aldehydes, monoolefinic (co)polymers	A04-F02	Active carbon	E31-N	Adenosine	B04-B03A C04-B03A
monomer	A01-D05	purification of water	D04-A01F	Adenovirus	B04-F11A1 C04-F11A1
Acrylic amides polymer paint	A12-B01E G02-A02C4	Active C treatment	D04-A01F2	Adenyl cyclase inhibitor	B14-D08 C14-D08
Acrylic containing epoxy paint, varnish or lacquer	A12-B01E G02-A02C1	Active photographic materials released on processing, excluding dyes	G06-C15	Adenylic acid	B04-B03B C04-B03B
Acrylic esters - see Acrylic acid esters		Acyclic saturated hydrocarbon	B10-J02 C10-J02 E10-J02D	Adhesion improvers for fibres in bulk material	F01-H06B
Acrylic fibres	A04-D02B A04-D03B	Acyclic unsaturated hydrocarbon	B10-J01 B10-J02 C10-J01 C10-J02 E10-J01 E10-J02C	polymers	A08-M01+
chemical features in production	F01-D02			Adhesion molecules	B04-H20 C04-H20
dyeing/printing	F03-F05			Adhesive	
Acrylic flocculants	A12-M01			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
Adhesives	A12-A+ G03+	Administration mode	B12-M12+ C12-M12+ B12-M12A C12-M12A		C04-B02D4 C04-J05D
Coating metal using dental	M13-H03 D08-A02	buccal	B12-M12L C12-M12L	Adrenocorticotropin	B04-B02D4 B04-J05D
dental, polymer use in inorganic (including silicone resins)	A12-V02B G03-B01	cervical	B12-M12B C12-M12B		C04-B02D4 C04-J05D
organic including polymers	A12-A+ G03-B02+	external	B12-M12C C12-M12C	Adrenolytic	B12-E06 B14-J02D C12-E06 C14-J02D
paper	F05-A06B	injection	B12-M12D C12-M12D		
tyre cord	A12-T01C	infusion	B12-M12E C12-M12E	Adriamycin	B02-D C02-D
Adhesives containing gelatin	A12-A+ G03-A	intraarterial	B12-M12E C12-M12E		
glue	G03-A	intraarticular	B12-M12S C12-M12S	Adsorbents for	
inorganic constituent	G03-B01	intraaural	B12-M12G C12-M12G	gas separation	J01-E03C
natural or synthetic rubber	G03-B02B	intramedular	B12-M12T C12-M12T	gas storage	J06-B06C
natural polymer (other)	G03-B02A	intramuscular	B12-M12J C12-M12J	liquid separation	J01-D01
organic constituent	G03-B02+	intranasal	B12-M12Q C12-M12Q	waste gas treatment	J01-E02B
silicon polymers	A06-A00E1 G03-B01	intraocular	B12-M12H C12-M12H	water treatment	D04-A01F
synthetic polymer (general)	G03-B02C	intraosseous	B12-M12U C12-M12U	Adsorbents (polymer use in)	A12-W11D
Adhesives containing addition polymers	G03-B02D+	intraperitoneal	B12-M12I C12-M12I	Adsorption property of polymer	A09-A08
(meth)acrylamide	A04-D04A1	intratracheal	B12-M12I C12-M12I	Adult Respiratory Distress Syndrome treatment	B14-K01F C14-K01F
(co)polymers	A04-F06E6	intravenous	B12-M12F C12-M12F	Advertising	A12-W03
(meth)acrylate (co)polymers	A04-F04B	subcutaneous	B12-M12K C12-M12K	Aeration of	
anhydride (co)polymers	G03-B02D1	intrauterine	B12-M12L C12-M12L	fermentation media	D05-A03C
acrylic polymers	G03-B02D3	intravaginal	B12-M12M C12-M12M	water	D04-A01K D04-A01K2
olefinic hydrocarbon polymers	A10-E09B1 G03-B02D2	oral general	B12-M12N C12-M12N	Aerials, electrical (polymer use)	A12-E
polyethylene	G03-B02D3	rectal	B12-M12P C12-M12P		
PVA	A10-E09B1 G03-B02D2	specific treatment regime	B12-M12Z C12-M12Z	Aeroplanes - see Aircraft	
PVC	A04-E02E2 G03-B02D2	Adrenaline potentiator	B12-E07 B14-J02C1 C12-E07 C14-J02C1	Aerosil filler	A08-R06A
styrenic polymers	G03-B02D3	Adrenergic blocker	B12-E06 C12-E06	Aerosol	B12-M01A C12-M01A
vinyl ester polymer	G03-B02D2	alpha	B14-J02D1 C14-J02D1	composition	G04-B07
vinyl halide polymer	G03-B02D2	beta	B14-J02D2 C14-J02D2	containers	A12-P06A
Adhesives containing condensation polymer	G03-B02E+ A05-B01	general	B14-J02D C14-J02D	After treatment of	
aminoplasts	G03-B02E1 A05-A01E3 G03-B02E2	Adrenergic stimulant	B12-E07 B14-J02C1 C12-E07 C14-J02C1	dyed/printed textiles	F03-F14 F05-A02B
epoxy resins	G03-B02E1 A05-C01B1 A05-C03A	Adrenocortical	B12-G04 B14-D01 C12-G04 C14-D01	pulp in papermaking	
phenol-formaldehyde	G03-B02E1 A05-C01B1			Agar	A03-A B04-C02D C04-C02D
phenol-formaldehyde res	A05-C03A G03-B02E1 G03-B02E3			Ageing inhibitor	
phenoplasts	G03-B02E1			additive for polymer	A08-A+
polyesters	G03-B02E3			Ageing resistance	
polyurethane,				improvement of fabrics	F03-C07
polyurea, or				Aggregates	L02-D13
isocyanate based	G03-B02E4			Agonist general and other	B14-L01 C14-L01
Adipates plasticisers/extenders	A08-P04			Agriculturals	C
Adipic acid	B10-C02 C10-C02 E10-C02D E10-C02D2			Agriculture	
condensant	A01-E12			composition, machine for producing	B11-C05 C11-C05
Adiponitrile	E10-A15A			foam use in	A12-S04C
condensant	A01-E05 A01-E12			nuclear applications	K09-C
				polymer use in	A12-W04+
				AIDS treatments	B14-G01B C14-G01B

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	
	A12-T	with phenols	A05-C+	alloys	M26-B
Air drying of solids	J08-H01	Aldehyde/ketone		catalysts	N01-A
Air laying of non-woven fabrics		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		C04-B02B3	olymerisation catalyst	
	K04-C	chlorella	B04-F08	(excluding with	
Aircraft	A12-T		C04-F08	transition metal)	A02-A07B
runway compositions	A12-R09	seaweed	B04-A08	production	M25-G04
Airjet			C04-A08	Alkali metal compounds	B05-A01B
treatment of fibres	F01-H02	unicellular	B04-F08		C05-A01B
weaving	F02-A04B		C04-F08	inorganic	E33
Air sterilisation, disinfection	D09-B	Alginates	A03-A	organic	E05-A
by irradiation	D09-B07		B04-C02D	Alkali treating of fabrics	F03-C08
Albumen	A03-C01		C04-C02D	Alkali treatment	
	B04-B04A6	Alicyclic		in petroleum refining	H04-A06
	B04-N02	3 or more rings fused		Alkali, detergent additives	D11-B11
	C04-B04A6	general	B09-H		D11-B11D
	C04-N02		C09-H	Alkaline earth metal	
Alcohol	B10-E04		E09-H	alloys	M26-B
	C10-E04	spirofused	B09-S	catalysts	N01-B
	E10-E04		C09-S	incorporated/incorporation	
condensant	A01-E14	3 rings fused	B09-D	in polymers	A10-E21+
denaturing	D05-D		C09-D	organic compounds as	
testing	J04-B01B2	4 rings fused	E09-D	polymerisation catalyst	
thio	B10-E03		B09-C	(excluding with	
	C10-E03		C09-C	transition metal)	A02-A07B
	E10-E03+	5 rings fused	E09-C	pigment/filler	G01-A01
unsaturated aliphatic	B10-E04		B09-B	production	M25-G05
	C10-E04	6 or more rings fused	C09-B	Alkaline earth metal	
	E10-E04		E09-B	compounds	B05-A01B
unsaturated aliphatic			B09-A		C05-A01B
(co)polymers	A04-F		C09-A	inorganic	E34
unsaturated aliphatic		1-2 rings fused	E09-A	organic	E05-B
monomer	A01-D09		B10	Alkaloid (general)	B04-A07A
Alcohol production by			C10		C04-A07A
fermentation	D05-C15	hydrocarbon	E10		E04-A
Alcoholism treatment	B12-J05A		E10-J02A	Alkane	B10-J02
	B14-M01A		E10-J02A1		C10-J02
	C12-J05A	Alicyclic polyepoxides	E10-J02A2		E10-J02D
	C14-M01A		A05-A05	Alkenes	B10-J02
Alcohols		Aligning masks and layers in			C10-J02
condensants	A01-E14	semiconductor processing	L04-C06D		E10-J02C
glycidyl ethers of	A05-A03	Alignment layers	L03-G05B8	production by	
Alcoholysed polymers	A10-E09+	Aliphatic - see also acyclic		disproportionation	E10-J02C2
Aldehyde	B10-D01	Aliphatic dibasic acid(s)+		production by	
	C10-D01	diamine(s) derived polyamide	A05-F02	oligomerisation	E10-J02C1
	E10-D01	Aliphatic hydrocarbon (acyclic)	D05-C09	production by other	
condensant (excluding		acetylenic	E10-J01	methods	E10-J02C3
HCHO)	A01-E10	saturated	E10-J02D	uses	E10-J02C4
unsaturated aliphatic		unsaturated olefinic	E10-J02C	Alkenes - see also Olefins	
unsaturated aliphatic		unsaturated olefinic,		Alkoxide of metal, catalyst	N05-A
(co)polymers	A04-F02	production by		Alkoxyated melamine resins	A10-E08C
unsaturated aliphatic		disproportionation	E10-J02C2	Alkyd resins	A05-E08
monomer	A01-D05	unsaturated olefinic,		Alkyl acrylates - see Acrylic	
Aldehyde condensation		production by		acid esters	
polymers		oligomerisation	E10-J02C1	Alkyl metal catalyst	
from formaldehyde only	A05-H02+	unsaturated olefinic,		for polymerisation	A02-A+
from trioxane only	A05-H02+	production by other methods	E10-J02C3	Alkyl metal catalysts	N05-A
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
product		Allyl methacrylate - see Allyl acrylates		Aluminium compounds	B05-A01B C05-A01B E34-C
Alkylated methylolated amines/amides process	A05-B+ A10-E08C A10-E08C	Allyl sulphonic acid (co)polymers monomer	A04-A A01	inorganic inorganic excluding (hydr)oxides	E34-C03
products		Alpha amino acid (carboxylic)	B10-B02 C10-B02 E10-B02D	organic containing Al-C bond organic without Al-C bond pigment/filler	E05-B02 E05-B03 G01-A10
Alkylated/alkylation of polymer (direct C-C bond)	A10-E03	Alpha radiation - see Ionising radiation		Aluminium hydrocarbon compounds polymerisation catalyst in absence of transition metal (or compounds) in presence of transition metal (or compounds)	A02-A07C A02-A06C
Alkylation	H04-E13A	Alpha-adrenergic blocker	B12-E06A B14-J02D1 C12-E06A C14-J02D1	Aluminium hydroxide	B05-A01B C05-A01B
Alkylation (gasoline preparation)	H04-D02	Alpha-chloroacrylic acid (co)polymers monomer	A04-E A01-D08 A01-D12	flame retardant production use	A08-F05 E34-C01 E34-C02
Alkylene oxide condensants polyethers polyetherurethanes	A01-E07 A05-H+ A05-G03	Alpha-chlorostyrene (co)polymers monomer	A04-C A01-D02	Aluminium oxide - see Alumina	
Alkyleneimine polymers	A05-J07	Alpha-methyl styrene (co)polymers monomer	E10-J02B A04-C05 A01-D03	Aluminium powder or flake	G01-A12A
Alkynes	B10-J01 C10-J01	Alphacillin	B02-P03 C02-P03	Aluminium production	M25-G01
Alkynes-production	E10-J01A	Alternating copolymerisation	A10-C01	Alumino-thermic welding	M23-E02
Alkynes-use	E10-J01B	Alternators	A12-E08B	Aluminosilicate	E31-P02 L02-G01A
Allergen	B04-B04C9 C04-B04C9	Alum(in)oxanes as polymerisation catalysts	A06-D01	Aluminum - see Aluminium	
Allethrin	B04-A07C C04-A07C	Alumina	B05-A01B C05-A01B L02-G01A	Alzheimer's disease treatment	B12-G04A B14-J01A4 C12-G04A C14-J01A4
Allopregnane	B01-D01 C01-D01	catalyst (without silica) (non- polymerisation) cements filler	N01-C02 L02-C07 A08-R G01-A10 A08-F L01-A03A	Americium compounds	B05-A04 C05-A04 E35-R E05-Q
Allotropism	E11-R04A	flame retardant glass composition polymerisation catalyst support production	A02-A B05-A01B C05-A01B L02-G01A N01-C02 L02-C07 A08-R G01-A10 A08-F L01-A03A A02-D E34-C01 L02-G11 A08-F E34-C02	Amidated/amidation of polymers of epoxy resins of other polymers of polyethers	A10-E17+ A10-E17A A10-E17B A10-E17A
Alloying of ferrous melts	M24-C08	smoke inhibitor use	A08-F E34-C02	Amide - see under appropriate acid	
Alloys (ferrous)	M27-A			Amides	
cast iron	M27-A03			condensants	A01-E03
master	M27-A02			crosslinkers for ethylenically unsaturated polymers	A08-C09
production	M27-A01			crosslinkers for other	
shape memory	M27-D05				
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	Ammonia removal from water	D04-B07C	Amorphous layers on semiconductors	L04-C03
	E10-A17A	Ammonia-oxidation reaction	E11-F07C	Amoxicillin	B02-P02
	E10-A17B	Ammonoxidation reaction	E11-F07C		C02-P02
Aminated/amination of polymers		Ammonium chloride		Amphibian cells	B04-F07A
of epoxy resins	A10-E18	crosslinker for ethylenically			C04-F07A
of other polymers	A10-E19	unsaturated polymers	A08-C09	Ampholyte detergent	D11-A04
of polyethers	A10-E18	crosslinker for other		mixtures with other	
Amine oxide	B10-A03	polymers	A08-D03	detergents	D11-A12
	C10-A03	Ammonium compounds		Amphoteric refractories	L02-E09
	E10-A03	inorganic	B05-C01	Amphotericin B	B02-A
Amine oxides as disinfectants			C05-C01		C02-A
other than of food or air	D09-A04C		E32-A	Ampicillin	B02-P02
Amine-epihalohydrin polymers	A05-J09	Ammonium inorganic catalyst	N04-A		C02-P02
Amine-polymaleimide polymers	A05-J11	Ammonium nitrate	B05-C01	Amplification processes for production	
Amines	B10-B		B05-C02		B11-C01E
	C10-B		C05-C01		C11-C01E
	E10-B+		C05-C02	Ampoule	B12-M04
catalysts	N05-D		E32-A		C12-M04
condensants	A01-E05	Ammonium organic		Anabolic agent	B12-J01
crosslinkers for ethylenically		(quaternary N)			B14-E11
unsaturated polymers	A08-C09	catalyst	N05-D		C12-J01
crosslinkers for other		compounds mono	B10-A22		C14-E11
polymers	A08-D03		C10-A22	Anaemia treatment	B12-H01
cyclic monoolefinic monomer	A01-D01		E10-A22		B14-F03
Amino acids, alpha, (carboxylic)	B10-B02	compounds poly	B10-A21		C12-H01
	C10-B02		C10-A21		C14-F03
	E10-B02D+		E10-A21	Anaesthetic	
aromatic	E10-B02A+	Ammonium orthophosphate,		general	B12-C01
biosynthesis	D05-C01	general	B05-B02A2		B14-C07
condensants	A01-E04		C05-B02A2		C12-C01
detection and analysis of	J04-B03	production	E31-K03		C14-C07
homopolycondensates	A05-F03	use	E31-K05E	local	B12-C02
polyamides	A05-F03	Ammonium persulphate	E31-E03		B14-C08
Amino phenols	E10-B03A1	crosslinker for ethylenical			C12-C02
	E10-B03B1	unsaturated polymers	A08-C05		C14-C08
condensant	A01-E05	crosslinker for other		Analeptic	B12-C03
	A01-E13	polymers	A08-D		B14-J01A2
crosslinkers for ethylenically		redox polymerisation			C12-C03
unsaturated polymers	A08-C09	catalyst system component	A02-A03		C14-J01A2
crosslinkers for other		sole polymerisation		Analgesic	B12-D01
polymers	A08-D03	catalyst species	A02-A01		B14-C01
Aminoalkyl (meth)acrylate		Ammonium polyphosphate,			C12-D01
(co)polymers	A04-D09	general	B05-B02A2		C14-C01
monomer	A01-D07		C05-B02A2	Analogue Nucleic Acid	B04-E11
	A01-D10B	production	E31-K04		C04-E11
Aminoalkyl cellulose - see		use	E31-K06	Analysis	J04-B01
Cellulose ethers		Ammonium salt with		Chemdoc	E11-Q
Aminoalkyl silane adhesion		inorganic P acid	B05-B02A2	Farmdoc/Agdoc	B12-K04
improvers	A08-M01D		C05-B02A2		C12-K04
Aminoalkylated/ amino		general production,		laboratory equipment	A12-L04
alkylation of polymer	A10-E03	excluding orthophosphates	E31-K04		J04-B
Aminoarylated/		use, excluding ortho- and		medical	A12-V03C2
aminoarylation of polymer	A10-E03	polyphosphates	E31-K07		B12-K04
Aminocaproic acid condensant	A01-E04	Ammonium sulphate	B05-C01	of fabrics	F03-K02
Aminoplasts	A05-B+		C05-C01	of ferrous metals and alloys	M24-A06
adhesive/binder	A12-A05D	Ammunition	E32-A	of non-ferrous metals and	
	G03-B02E1	decommissioning	K03-A	alloys	M25-H
coating/paint	A12-B01J	Ammunition - see also Military	K03-A04	of NBC agents	K02-A04
	G02-A02F				
Aminotriazine condensant	A01-E01	Amniotic fluid	B04-B04H		
			C04-B04H		

of polymers (chemical constitution)	A09-B	Animal cells	B04-B04A3	Anionic dyes for dyeing/printing fibres	F03-F21
microanalysis	J04-B04		B04-F01		
reactions and reagents	J04-B01B		C04-B04A3	Anisotropic melt/solutions of polymers	A09-A02A
spectral	J04-B01A	Animal excrement	C04-F01		
using various methods (Chemdoc)	E11-Q03		B04-B04B	Annealing of	
using electrical properties	J04-C02B	Faeces	C04-B04B	ferrous metal	M24-D02B
using optical properties	J04-C02C		B04-B04B2	fibres	F01-H05
		Urine	C04-B04B2	glass	L01-G02
			B04-B04B1	non-ferrous metal	M29-C
Anchor bolts	A12-H12		C04-B04B1	polymers	A11-B02+
Ancillary equipment for semiconductor processing	L04-D10	Animal extract, general	E04-B	semiconductors (laser)	L04-C16B
		mammalian	B04-B04L		
Androgen inhibitor	B12-G01A		C04-B04L	Anodic protection	M14-E
	B14-D02A	non-mammalian	B04-B04M		
	C12-G01A		C04-B04M	Anodising	M11-E
	C14-D02A	Animal feed yeast production	D05-B04	for anticorrosive or decorative purposes	M11-E01
Androgen receptor	B04-K01L1	Animal feeds	D03-G	for electrical purposes	M11-E02
	C04-K01L1		D03-J10	Anodyne	C12-D01
Androgenic	B12-G04B	Animal fibres		Anorectal disease treatment	B14-N07
	B14-D01A	chemical treatment	F01-B01		C14-N07
	C12-G04B	dyeing/printing	F03-F02	Anorectic	B12-J02
	C14-D01A	mechanical treatment	F01-A01		B14-E12
1,4-Androstadiene	B01-B03	Animal oils	B04-B01C2		C12-J02
	C01-B03		C04-B01C2		C14-E12
Androstadiene (other than 1,4)	B01-B04	Animal polysaccharides	B04-C02E	Anorexia treatment	B12-J01
	C01-B04		C04-C02E		B14-E11A
Androstane (saturated ring "A")	B01-D02	Animal protein	B04-B04A6		C12-J01
	C01-D02		B04-N02		C14-E11A
Aneurin	B03-B		C04-B04A6	Antacid	B12-J03
	C03-B	Animal repellant	C04-N02		B14-E01
Angina pectoris treatment	B12-F02	Animal repellent	A08-M02		C12-J03
	B14-F01D				C14-E01
	C12-F02		B12-N06	Antagonist general and other	B14-L06
	C14-F01D		B14-B13		C14-L06
Angiogenic	B14-F02F1	Animal waste, protein	C12-N06	Anthracene	B08-D02
	C14-F02F1	recovery from	C14-B13		C08-D02
Angiosperms	B04-A08C2		D03-F04	Anthraquinone dye	E08-D02
	C04-A08C2	Animal waxes	B04-B01C2		A08-E03B
	B08-A08G+		C04-B01C2	condensed ring system	E22
	C04-A08G+	Animals (whole)		for dyeing textiles	E22-E
Angiotensin	B04-J18	arthropods	B04-P01C	for polyamide textiles	F03-F16C
	C04-J18		C04-P01C	for polyester textiles	F03-F07C
Angiotensin agonist/mimetic	B14-L02	domestic	B04-P01B	reactive	E22-D
	C14-L02		C04-P01B	water insoluble	E22-C
Angiotensin antagonists	B14-F02B1	experimental	B04-P01A	water soluble, cationic	E22-A
	C14-F02B1		C04-P01A	water soluble, not	
Angiotensin converting enzyme inhibitor	B12-F05A	farm	B04-P01B	cationic	E22-B
	B14-F02B1		C04-P01B	Anti DNA/RNA polymerase	B14-D06A
	C12-F05A	fish	B04-P01		C14-D06A
	C14-F02B1	general	C04-P01	Anti heavy metal poisoning	B12-J05C
Anhydride - see under appropriate acid			B04-P01		B14-M01D
Anhydride crosslinking agents	A08-C+	insects	C04-P01		C12-J05C
	A08-D02		B04-P01C		C14-M01D
Aniline	E10-B04A	laboratory	C04-P01C	Anti-graffiti coatings	G02-A05J
	E10-B04A1		B04-P01A	Anti-ozonants for polymers	A08-A07
	E10-B04A2	poultry	C04-P01A	Anti-reflective layers in photographic materials and processes	G06-A02A
condensant	A01-E05	wild	B04-P01B		
Aniline-based aminoplasts	A05-B	Animal use only of D08 codes	B04-P01	Anti-SRS-A	B12-D02D
		Anion exchange resins - see Ion exchange resins	C04-P01		C12-D02D
		Anionic detergent	D08-C	Antibortive	B14-P03
			D11-A01		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 B04-G09
Antiageing (senility)	B12-G04A B14-J01A4 C12-G04A C14-J01A4	osteoarthritis	B14-C09A C14-C09A	antialgal	C04-G09 B04-G09
Antiageing additives	A08-A+	rheumatoid-arthritis treatment	B14-C09B C14-C09B	antiamoebal	C04-G09 B04-G07
Antiageing preparations	D08-B09A3	Antiarthritic general and other	C12-D03	antibacterial	C04-G07 B04-G06 C04-G06
Antiaggregants	B14-F04 C14-F04	Antiasthmatic	B12-D02 B12-K02 B14-K01A C12-D02 C12-K02 C14-K01A	anticancer	B04-B04C4 B04-G05 C04-B04C4 C04-G05
Antialcoholism	B12-J05A B14-M01A C12-J05A C14-M01A	Antibacterial	B12-A01 C12-A01	anticytokine	B04-G02 C04-G02 B04-G03 C04-G03
Antialdosterone	B14-D02A1 C14-D02A1	Bacillus	B14-A01B5 C14-A01B5	antifungal	B04-G09 C04-G09
Antialgal	B12-A02A B14-A05 C12-A02A C14-A05	Bordetella	B14-A01A1 C14-A01A1	antihormone	B04-G02 C04-G02
Antiallergic	B12-D02 B14-G02A C12-D02 C14-G02A	Borrellia	B14-A01A2 C14-A01A2	antiinterleukin	B04-G02 C04-G02
Antiamnesia	B14-J01A4 C14-J01A4	Escherichia	B14-A01A3 C14-A01A3	antilymphokine	B04-G02 C04-G02
Antiamoebic	B12-B01 B14-A03A C12-B01 C14-A03A	Mycobacteria	B14-A01B1 C14-A01B1	antimetabolic factor	B04-G02 C04-G02
Antianaemia	B12-H01 B14-F03 C12-H01 C14-F03	M. Tuberculosis	B14-A01B1A C14-A01B1A	antimicrobial (excluding vaccines)	B04-B04C3 C04-B04C3
Antianaphylactic	B12-J05 B14-G02B C12-J05 C14-G02B	M. Leprae	B14-A01B1B C14-A01B1B	antimicrobial (other than bacterial or viral)	B04-G09 C04-G09
Antiandrogenic	B12-G01A B14-D02A5 C12-G01A C14-D02A5	Mycoplasma	B14-A01A4 C14-A01A4	antiparasitic	B04-G12 C04-G12
Antianginal	B14-F01D C14-F01D	Neisseria	B14-A01A5 C14-A01A5	antiplant	B04-G10 C04-G10
Antiangiogenic	B14-F02F2 C14-F02F2	Pseudomonas	B14-A01A6 C14-A01A6	antireceptor	B04-G04 C04-G04
Antiangiotensin converting enzyme	B12-F05A B14-F02B1 C12-F05A C14-F02B1	Rickettsia	B14-A01A7 C14-A01A7	antiviral	B04-G08 C04-G08
Antiapoptotic	B14-H04 C14-H04	Salmonella	B14-A01A8 C14-A01A8	as part of fusion protein binding to another antibody	D05-H17C1 B04-G11 C04-G11
Antiarrhythmia	B12-F01A B14-F01A C12-F01A C14-F01A	Staphylococcus	B14-A01B4 C14-A01B4	bispecific antibodies	B04-G24 C04-G24
Antiartherosclerotic	B12-H03 B14-F07 C12-H03 C14-F07	Streptococcus	B14-A01B2 C14-A01B2	catalytic antibodies	B04-G20 C04-G20
		Streptomyces	B14-A01B3 C14-A01B3	chimeric	B04-G01A C04-G01A
		Vibrio	B14-A01A9 C14-A01A9	fragments	B04-G23 C04-G23
		general	B14-A01 C14-A01	general	D05-H11 B04-G01 C04-G01
		gram-negative general	B14-A01A C14-A01A	general and other	B04-G01 C04-G01
		gram-positive general	B14-A01B C14-A01B	heterospecific	B04-G26 C04-G26
		Antibacterial (plant)	C14-A01C2	human	B04-G01B C04-G01B
		Pseudomonas	C14-A01C3	humanized	B04-G01C C04-G01C
		Agrobacteria	C14-A01C1	monoclonal	B04-B04C5 B04-G21 C04-B04C5 C04-G21
		Enterobacteria	C14-A01C	murine	B04-G01D C04-G01D
		general	B02 C02 E02	other	B04-B04C6 C04-B04C6
		Antibiotics			
		as disinfectants other than of food or air biosynthesis	D09-A01C D05-C02		
		Antiblocking agents for polymers	A08-M07		

polyclonal	B04-G22 C04-G22 D05-H11B D05-H17A1	Anticorrosion additives for water	D04-A03	Antifibrillatory	B12-F01A B14-F01A C12-F01A C14-F01A
recombinant production of recombinant production of mutated antibodies site specific release	D05-H17B1 B12-M10E2 C12-M10E2	Anticorticosterone	B14-D02A C14-D02A	Antifibrinolytic	B12-H04 B14-F08 C12-H04 C14-F08
Antibody - Antigen reaction general	B11-C07A C11-C07A	Anticrustacean	B12-N04 B14-B04 C12-N04 C14-B04	Antifibroblastogenic	B12-G07 B14-H01A C12-G07 C14-H01A
Antibody-producing cells	B04-F05 C04-F05 D05-H15A	Anticurl layers, photographic	G06-A	Antiflatulent	B14-E03 C14-E03
Antibordetella	B14-A01A1 C14-A01A1	Antidehydrogenase	B14-D05D C14-D05D	Antifoaming agents	A08-S03
Antibradykinin	B12-E02 B12-F04 B14-D02B C12-E02 C12-F04 C14-D02B	Antidepressant	B12-C06 B14-J01A1 C12-C06 C14-J01A1	Antifoggants (photographic)	G06-H03
Antibronzing agents, photographic	G06-H11	Antidiabetic	B12-H05 B14-S04 C12-H05 C14-S04	Antifouling	B12-A08 C12-A08 C14-B15 A08-M02
Anticaking	B12-M11A C12-M11A	Antidiarrhoeal	B12-J04 B14-E02 C12-J04 C14-E02	additive for paints	
agents for detergents	D11-B04	Antidiuretic hormone (ADH)	B04-J05B C04-J05B	additives	
Anticancer	B12-G07 B14-H01 C12-G07 C14-H01	Antidiuretics	B14-N09 C14-N09	bactericidal, fungicidal etc.	G02-A03B
Anticarcinogenic	B12-G07 B14-H01 C12-G07 C14-H01	Antidopaminergic	B14-J02D3 C14-J02D3	coatings	G02-A05G
Anticaries	B14-N06A C14-N06A	Antidotes general and other	B12-J05 B14-M01 C12-J05 C14-M01	for paints	G02-A03B
Anticaries composition	D08-A05	acute intoxication	B14-M03 C14-M03	polymer scale build-up	
Anticatabolic	B12-J01 B14-E11 C12-J01 C14-E11	herbicide	B14-M01E C14-M01E	prevention	A08-S08
Anticataleptic	B12-E02 B14-J01A2 C12-E02 C14-J01A2	pesticide	B14-M01E C14-M01E	soil repellents	A08-S08
Anticatatonic	B14-J01A2 C14-J01A2	Antiemetic	B12-D05 B14-E05 C12-D05 C14-E05	Antifouling coatings	G02-A05G
Anticholesterol	B12-H03 B14-D02A2 C12-H03 C14-D02A2	Antiepileptic	B12-D04 B14-J07 C12-D04 C14-J07	Antifreeze	A12-W11G G04-B01 H08-D02
Anticholinergic	B12-E04 B14-J02B1 C12-E04 C14-J02B1	Antiesterase	B14-D07A C14-D07A	Antifungal	B12-A02C C12-A02C
Anticoagulant	B12-H02 B14-F04 C12-H02 C14-F04	Antieumycetes	B12-A02C B14-A04 C12-A02C C14-A04	Aspergillus	B14-A04A C14-A04A
Anticonvulsant	B12-D04 B14-J07 C12-D04 C14-J07	Antifebric	B12-D08 B14-C04 C12-D08 C14-C04	Candida	B14-A04B C14-A04B
		Antifebrile	B12-D08 B14-C04 C12-D08 C14-C04	Microsporium	B14-A04C C14-A04C
		Antifertility	B12-G01A B14-P01 C12-G01A C14-P01	Trichophyton	B14-A04C C14-A04C
				additives	A08-M02
				combating resistant fungi	B14-A04X C14-A04X
				general	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	
Antigout	B12-G03 B14-C02 C12-G03 C14-C02	Antiimplantation	B12-K03 B14-P01B C12-K03 C14-P01B	alloys	M26-B
				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
		Antiisomerase	B12-G01B5 B14-D09 C12-G01B5 C14-D09	inorganic	G01-A16
Antihaemorrhage	B12-H04 B14-F08 C12-H04 C14-F08	Antiknock additives (fuels)	H06-D04	inorganic compound pigment	E05-J
Antihaemorrhoids	B12-J04 B14-E04 C12-J04 C14-E04	Antileprotic	B12-A03 B14-A01B1 C12-A03 C14-A01B1	organic	
				Antimony containing	
Antihalation agents, photographic	G06-A02	Antikinasases	B14-D06C C14-D06C	flame retardant	A08-F02
Antihardeners, photographic	G06-H14	Antiknock additives (fuels)	H06-D04	intumescent agent	A08-B A08-F02
Antihelmintic	B12-B02 B14-B03 C12-B02 C14-B03	Antileprotic	B12-A03 B14-A01B1 C12-A03 C14-A01B1	material for fabric flame proofing	F03-C03B
Antihistamine	B12-D06 C12-D06	Antilichen	B12-A02B B14-B08 C12-A02B C14-B08	Antimony production	M25-G02
general	B14-L09 C14-L09	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimony trioxide flame retardant	A08-F02
H1-secretion inhibitors	B14-L10 C14-L10	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimony-containing	
H2-secretion inhibitors	B14-L11 C14-L11	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimuscarinic	B14-J02B2 C14-J02B2
Antihistaminergic	B14-L09 C14-L09	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimycobacterial	B12-A03 B12-A04 B14-A01B1 C12-A03 C12-A04 C14-A01B1
Antihormone	B12-G01A B14-D02 C12-G01A C14-D02	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimycoplasm	B12-A01 B14-A01A4 C12-A01 C14-A01A4
Antihydrolase	B12-G01B3 C12-G01B3	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimycotic	B12-A02 B14-A04 C12-A02 C14-A04
general and other	B14-D07 C14-D07	Antilipase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antineoplastic	B12-G07 B14-H01 C12-G07 C14-H01
		Antimalarial	B12-B03 B14-A03B C12-B03 C14-A03B	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A
		Antimetabolite	B12-G01 C12-G01		

Antioovulation	B12-G01A B14-P01B C12-G01A C14-P01B	Antiphthisic	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 C12-G04A C14-J01A4
food	D03-H01P	Antiplaque	B14-N06A C14-N06A		
fuels	H06-D01	Antiplasmin	B12-G01 B12-H04 B14-D07C C12-G01 C12-H04 C14-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 A08-A06 B14-S08 B14-S12 C14-S08 C14-S12	Antiplumbing agent, photographic	G06-H11	Antiseptic	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01
polymer		Antiprogestational	B12-G01A B14-D02A4 C12-G01A4 C14-D02A	Antiserotonergic	B14-J04 C14-J04
veterinary only		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 B14-D05 C14-D05	Antiprotease	B14-D07C C14-D07C	Antismoking	B12-J05B B14-M01B C12-J05B C14-M01B
general and other		Antiprotozoal	B12-B01 C12-B01 B14-A03B C14-A03B B14-A03 C14-A03	Antispasmodic	B12-E04 B14-J05D C12-E04 C14-J05D
Antioxygenase	B14-D05C C14-D05C	Plasmodium			
Antipaludial	B12-B03 B14-A03B C12-B03 C14-A03B	antiprotozoal general		Antispastic	B12-E02 B14-J05D C12-E02 C14-J05D
Antiparasitic (general)	B12-B04 B14-B02 C12-B04 C14-B02	Antipruritic	B12-A07 C12-A07	Antispider	B14-B04 C14-B04
combating resistant parasites	B14-B02X C14-B02X	Antipsychotic	B14-J01B3 C14-J01B3	Antistatic agent for detergents for electrical for fabrics for polymers photographic	D11-B05 L03-H04B F03-C05 A08-S04 G06-A03
Antiparkinsonian	B12-C04 B14-J01A3 C12-C04 C14-J01A3	Antipyretic	B12-D08 B14-C04 C12-D08 C14-C04	Antistatic compositions (non-polymeric)	G04-B03
Antipepsin	B12-G01B3 B14-D07C C12-G01B3 C14-D07C	Antirads for polymers	A08-A02	Antistatic treatment of fabrics/fibres	A12-S05S F03-C05
Antipeptide hormone activity	B14-D02B C14-D02B	Antiredeposition	D11-B05	Antisteroid general	B14-D02A C14-D02A
Antipeptide hydrolase	B14-D07C C14-D07C	Antireducatace	B14-D05D C14-D05D	Antistreptomyces	B12-A02C B14-A01B3 C12-A02C C14-A01B3
Antiperoxidase	B14-D05B C14-D05B	Antireverse transcriptase	B14-D06B C14-D06B	Antisynthetase	B14-D10 C14-D10
Antiperspirant	B12-L01 B14-R03 C12-L01 C14-R03 D08-B09B2	Antirhesus factor	C12-G01	Antitarnishing agents, in detergents	D11-B05
Antiphlogistic	B12-D07 B12-D08 B14-C04 C12-D07 C12-D08 C14-C04	Antirheumatic	B12-D09 B14-C06 C12-D09 C14-C06	Antithrombin	B14-D07C C14-D07C
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	reovirus	C14-A02A4 B14-A02B7 C14-A02B7	paints and coatings	A12-B01A G02-A+ A12-S
Antitransferase	B12-G01B2 B14-D06 C12-G01B2 C14-D06	retrovirus	B14-A02B1 C14-A02B1	solutions of polymers	
Antitremor	B12-C04 B12-E04 B14-J01A3 C12-C04 C12-E04 C14-J01A3	rhabdovirus	B14-A02B4 C14-A02B4	Arachnicide	B14-B04 C14-B04
Antitreponema	B12-B01 B14-A01A C12-B01 C14-A01A	RNA viruses general	B14-A02B C14-A02B	Arachnids	B04-P01C C04-P01C
Antitubercular	B12-A04 B14-A01B1 C12-A04 C14-A01B1	togavirus	B14-A02B6 C14-A02B6	Aramids	A05-F05
Antitumour	B12-G07 B14-H01 C12-G07 C14-H01	Antiviral (plant)	C14-A02B8	fibres, chemical features of	F01-D03
antibody	B04-B04C4 B04-G05 C04-B04C4 C04-G05	Antiyeast	B12-A02C B14-A04 C12-A02C C14-A04	fibres, dyeing/printing	F03-F06+
Antitussive	B12-K01 B14-K01B C12-K01 C14-K01B	Anxiety relieving	B12-C10 B14-J01B4 C12-C10 C14-J01B4	Arc extinguishing gases for contact breakers	L03-B04
Antivenereal	B12-A05 B14-N07C C12-A05 C14-N07C	Anxiolytic	B14-J01B4 C14-J01B4	Arc welding and cutting apparatus	M23-D01 M23-D01B4
Antiviral	B12-A06 C12-A06	Apoptotic	B14-H03 C14-H03	build-up	M23-D01A2
adenovirus	B14-A02A1 C14-A02A1	Apparatus for addition		circuits	M23-D01B3
arbovirus	B14-A02A2 C14-A02A2	(co)polymerisation	A10-B01	flux	M23-D01B2
combating resistant viruses	B14-A02X C14-A02X	catalysts	N06-D	gas	M23-D01B2
coronavirus	B14-A02B5 C14-A02B5	chemical process	E11 J04-X	holders	M23-D01B1
DNA viruses general	B14-A02A C14-A02A	combinatorial chemistry	E11-K02 B11-C01B C11-C01B	methods	M23-D01A
general	B14-A02 C14-A02	concrete article manufacture	L02-D04C	nozzles	M23-D01B1
hepatitis B virus	B14-A02A5 C14-A02A5	optical glass fibre manufacture	L01-F03K	seam	M23-D01A1
herpesvirus	B14-A02A3 C14-A02A3	pharmaceutical/ agricultural composition production	B11-C C11-C	specialy adapted for particular articles	M23-D01A4
flavivirus	B14-A02B9 C14-A02B9	polycondensation	A10-D04	submerged	M23-D01A3
influenza treatment	B14-A02B2 C14-A02B2	recycling waste water	D04-A06	torches	M23-D01B1
Influenza treatment	B14-A02B2 C14-A02B2	Apparel, wearing	A12-C+ F04-C	wire feed	M23-D01B2
myxovirus	B14-A02A6 C14-A02A6	Appetite		Areas, sports	A12-F01A
papovirus	B14-A02A9 C14-A02A9	depressant	B12-J02 B14-E12 C12-J02 C14-E12	Argent, argentous compounds - see Silver	
parvovirus	B14-A02A9 C14-A02A9	stimulant	B12-J01 B14-E11 C12-J01 C14-E11	Argon (element)	B05-B02C C05-B02C E31-J
picornavirus	B14-A02B3 C14-A02B3	Aptamer	B04-E07F C04-E07F D05-H12D6A	Argon compounds	
poxvirus	B14-A02A4	Aqueous		inorganic	B05-B02C C05-B02C E31-J
		dispersions	A07-B	organic	B05-B02C C05-B02C E05-K
		dispersions of acrylic polymers	A07-B02	Arm, artificial	D09-C01D
		dispersions of natural or condensation polymers (non-rubber)	A07-B04	polymer use in	A12-V02
		dispersions of other addition polymers	A07-B03	Armaments	A12-T03D+
		dispersions of rubbers	A07-B01	Armatures	A12-E08B
				Arming mechanisms	K03-A03
				Aromatic acids, and derivatives, condensants	A01-E11
				Aromatic compounds	
				3 or more rings fused	
				general	B08-H C08-H E08-H
				spirotused	B08-S C08-S
				3 rings fused	B08-D C08-D
				4 rings fused	E08-D B08-C C08-C
				5 rings fused	E08-C B08-B C08-B
				6 or more rings fused	E08-B B08-A C08-A E08-A

1-2 rings fused	B10 C10 E10	Artherosclerosis treatment	B14-F07 C14-F07	Atherosclerosis treatment	B12-H03 B14-F07 C12-H03 C14-F07
Aromatic dicarboxylic acid(s) production use	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 (co)polymers, others monomers, ester monomers, substituted excluding ester monomers, unsubstituted	A04-B09 A04-B10 A01-C01 A01-C02 A01-C03	Arthropods		Attenuators for optical circuits	L03-G02
Aromatic hydrocarbon	B10-J02 C10-J02 E10-J02B	Artificial - see under the artifact (e.g. for artificial fur - see fur, artificial)		Audio magnetic tape	A12-E08A1
production by disproportionation	E10-J02B1	Aryl of metal, catalyst	N05-A	Aural	B12-L04 B14-N02 C12-L04 C14-N02
production by hydrodealkylation	E10-J02B1	Arylated - see Alkylated		Auric, aurous compounds - see Gold	
production by other methods	E10-J02B3	Aryl of metal, catalyst	N05-A	Autoclaves for concrete article heat treatment	L02-D04C
purification	E10-J02B2	Arylation	E11-F03	Autoclaving concrete	L02-D04
uses	E10-J02B4	Asbestos	E31-P04	Autoclaving concrete articles	L02-D04B
Aromatic monoolefinic (co)polymers monomers, substituted monomers, unsubstituted	A04-C+ A01-D02 A01-D03	disposal	L02-B07	Autoimmune disease treatment	B12-D02A B14-G02D C12-D02A C14-G02D
Aromatic oils extenders for polymers	A08-P08	fibres	F01-D09	Automated fermentation vessel	D05-A03B
Aromatic polyamide fibres	A05-F05	fillers	A08-R02	Automated yarn spinning system	F01-G04
chemical features	F01-D03B	paper	F05-A06+	Automatic refinery control equipment	H05-J
dyeing/printing	F03-F06+	production	L02-B07	Automation in processing involving extruders	A09-D02
Aromatic polyamides	A05-F05	products	L02-D11	involving moulding	A09-D01
Aromatic polyether excluding phenoxy resin	A05-H07	Ascaricide	B12-B02 C12-B02	involving other processes	A09-D03
Aromatic sulphonic acid detergents	D11-A01B1	Ascorbic acid	B03-F C03-F E03 E07-A02	Automotive fabrics and products	F04-E03
Aromatisation of petroleum refinery streams	H04-E01	aseptic environment	D09-B03	Automotive parts/accessories	A12-T+
Arrhythmia treatment	B12-F01A B14-F01A C12-F01A C14-F01A	Aspergillus	B04-B02B2 B04-F09A C04-B02B2 C04-F09A	Autonomic nervous system active	C12-E01
Arsenic		Asphalt	A03-C03 B04-D02 C04-D02 H08-B L02-D10 L02-D09	general and other	B14-J02 C14-J02
catalysts	N03-H	composition		Autonomic nervous system active (general)	B12-E01
element	B05-B02B C05-B02B E31-L L01-A07A	ground covering	L02-D09	Auxiliaries for dyeing/printing fibres	F03-F32
glass compositions	L01-A07A	Assemblies of semiconductor devices - general	L04-F	paper	F05-A06+
Arsenic compounds		Astatine compounds	B05-A04 C05-A04 E35-Y	weaving apparatus	F02-A05
inorganic	B05-B02B C05-B02B E31-L L01-A07A	inorganic	B05-A04 C05-A04 E05-Q	Avermectin	B02-A C02-A
organic	B05-B01C C05-B01C E05-H	organic	B05-A04 C05-A04	Avicide	B12-N05 B14-B10 C12-N05 C14-B10
Arsenic production	M25-G03	Astatine element	B05-A04 C05-A04	Azamethine dye	E25-C
Arsenide		Asthma treatment	B12-D02 B12-K02 B14-K01A C12-D02 C12-K02 C14-K01A	Azaphenothiazine	B06-F05 C06-F05 E06-F05
ceramics	L02-H05	Astringent	B12-L01 B14-R03 C12-L01 C14-R03 D08-B09B	Azepine	B07-D06 C07-D06 E07-D06
glass	L01-A07	Asymmetric synthesis	E11-J03	Azete	B07-D01 C07-D01 E07-D01
Arteriosclerosis treatment	B14-F07 C14-F07			Azide (inorganic)	B05-C03

	C05-C03 E31-H	B		Bandages	A12-V03A B12-M02D C12-M02D D09-C F04-E04
Azide (organic)	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B	B-Alkylation	E11-F10	textiles for use as	F02-E02
		Baby food	D03-S	Bands of textile	M21-A03A
Azirine	B07-D01 C07-D01 E07-D01	Baby napkins	A12-V03A F04-C01A D09-C03	Bar mills (metal rolling)	N01-B
		with special shape		Barium catalysts	B05-A01B C05-A01B E34-D03D E05-B01
Azo catalysts for polymerisation	A02-A02	Bacillus	B04-B02B1 B04-F10B1 C04-B02B1 C04-F10B1	Barium compounds	Barium ferrite magnetic compositions
Azo compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B	Bacitracin	B02-B C02-B	Barium production	M25-G05
polymerisation catalyst	A02-A02	Backing layers for magnetic recordings	L03-B05K2	Barium sulphate filler/ reinforcing agents	A08-R G01-A01
Azo dye	A08-E03A+ E21	Bacteria	B04-B02B1 C04-B02B1 D05-H04	Bark	B04-A07D3 B04-A09G C04-A07D3 C04-A09G B04-A10H C04-A10H
couplers	E26-A	general	B04-F10 C04-F10	extracts	A12-V04C D09-E03
dis- and polyazo	A08-E03A3	gram-negative	B04-F10A C04-F10A	Barrier creams	G06-A08
reactive	E21-D	gram-positive	B04-F10B C04-F10B	Barrier layers, photographic	E12-A09B
water insoluble	E21-C	recombinant	D05-H14A1	Bars	F03-F22
water insoluble, disazo	E21-C02	Bacterial antigens		Basic dyes for dyeing/ printing fibres	M24-B02C
water insoluble, for dyeing textiles, general	F03-F16B	as vaccine	B02-V02 C02-V02	Basic oxygen furnaces (steelmaking)	L02-E04
water insoluble, for polyamide textiles	F03-F06B	Bactericidal additives - see Antifouling additives		Basic refractories	D05-A04C
water insoluble, for polyester textiles	F03-F07B	Bactericides	B12-A01 C12-A01	Basins	A12-R02
water insoluble, monoazo	A08-E03A2	for fabrics	A12-S05R F03-C02B A08-M02 F05-B01	Baths	A12-R02
	E21-C01	for polymer	B14-A01 C14-A01	Bats (sports equipment)	A12-F01B
water insoluble, polyazo	E21-C03	for wood	G06-H02	Batter	D01-A05 D01-B02F D01-A03
water soluble, cationic	E21-A	general	A12-W04C	Batteries	A12-E06+ L03-E L03-E01D5 L03-E01D4 L03-E08+ L03-E09 L03-E10 L03-E01D6
textiles, general	F03-F16A	photographic		carriers, plates	L03-E01B5 L03-E01B3 L03-E01B4 L03-E01B7 L03-E01B6 L03-E01B9 L03-E01B8 A12-E06A L03-E08B
water soluble, for polyamide textiles	F03-F06A	polymer agricultural use		connectors	F02-C01
water soluble, for polyester textiles	F03-F07A	Bacteriophage	B04-F11 C04-F11	component production	F01-E09A
water soluble, monoazo	A08-E03A1	Bag making, cutting films for	A11-A05C	recharging	
water soluble, not cationic	E21-B	Bags made of polymer	A12-P02	repairing	
Azobisisobutyronitrile		Baits	B12-N03 B14-B14 C12-N03 C14-B14	Battery packs	
blowing agent	A08-B03	Baker's yeast production	D05-B04	Battery electrodes	
crosslinker for addition / ethylenically	A08-C09	Bakery products	D01-B02 D01-A04	for alkaline cells	
unsaturated polymers	A08-D04	containers for equipment for		graphite and carbon	
crosslinker for other polymers	A02-A02	transporting	D01-A03	of Ni and Cd	
polymerisation catalyst		handling of	D01-A	of silver (oxide)	
Azocine	B07-D06 C07-D06 E07-D06	treatment after cooking	D01-A06	of zinc (oxide)	
		Baking	D03-K01	organic materials	
Azonine	B07-D06 C07-D06 E07-D06	Balata	A03-B	other inorganic materials	
		Bale breaking	F01-F03	polymer use in production	
Azoxy	B10-A03 C10-A03 E10-A03	Balls (sports equipment)	A12-F01B	Battings (textile)	
dye see under Azo dye				Batts	
				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)		Benzoxazocine	B06-E03 C06-E03 E06-E03
washing	D03-J08		A01-E01 E07-D13		
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	A12-D01	Benzoin			
of fabric	F04-D01	crosslinkers for ethylenically unsaturated polymers	A08-C	Benzoyl peroxide	E10-A04
Beds, bedding	A12-D01	crosslinkers for other polymers	A08-D	crosslinker for ethylenically unsaturated polymers	A08-C05
Beef	D02-A03B	photopolymerisation catalysts	A02-A09	crosslinker for other polymers	A08-D
Beehives	A12-W04+			redox polymerisation catalyst system component	A02-A03
Beer	D05-B02	Benzophenones		sole polymerisation catalyst species	A02-A01
Beet residue, animal feeds from	D03-G04	crosslinkers for ethylenically unsaturated polymers	A08-C		
Belladonna alkaloid	B04-A01 C04-A01	crosslinkers for other polymers	A08-D	Berkelium compounds	B05-A04 C05-A04 E35-R E05-Q
Belts		photopolymerisation catalysts	A02-A09	inorganic	
clothing	A12-C03 F04-C04	Benzopteridine	B06-D17 C06-D17 E06-D17	organic	
conveyor	A12-H01 F04-E07			Beryllium	
paper making	F04-E05A	1-Benzopyran	B06-A01 C06-A01 E06-A01	alloys	M26-B11 N01-B
safety, vehicle	F04-E03B			catalysts	
vehicle safety	A12-T04E			Beryllium compounds	B05-A01B C05-A01B E34-A E05-B01
Bending		Benzothiadiazine	B06-F03 C06-F03 E06-F03	inorganic	
glass	L01-G10			organic	
metal tubes	M21-B04	Benzothiazepine	B06-F03 C06-F03 E06-F03	Beryllium production	M25-G06
polymer films, sheets, tubes, pipes	A11-B08+ M21-E01			Beta alumina separator tubes	L03-E04A
sheet metal		Benzothiazine	B06-F02 C06-F02 E06-F02	Beta-adrenergic blocker	B12-E06B B14-J02D2 C12-E06B C14-J02D2
Benzazepine	B06-D04 C06-D04 E06-D04				
Benzazocine	B06-D04 C06-D04 E06-D04	Benzothiazocine	B06-F03 C06-F03 E06-F03	Beverages (see also Food)	B12-J01 B14-E11 C12-J01 C14-E11 D05-E D05-F D03-H01
Benzene disulphonic acids derived polyesters	A05-E	Benzothiazole	B06-F01 C06-F01 E06-F01	alcoholic	
Benzimidazole	B06-D05 C06-D05 E06-D05			alcoholic treatment of non-alcoholic	
condensants	A01-E06	Benzothiophene	B06-B01 C06-B01 E06-B01	Biaxial drawing of film	A11-B02A A12-S06B
polymers	A05-J02			Bicarbonate blowing agent	A08-B02
Benzisothiazole	B06-F01 C06-F01 E06-F01	Benzotriazole	B06-D08 C06-D08 E06-D08	Bicarbonates - inorganic	B05-C04 C05-C04 E31-N05
Benzisoxazole	B06-E01 C06-E01 E06-E01	Benzoxathiazine	B06-G C06-G E06-G	Bichromated gelatin, photographic	G06-F03+
Benzo(b)furan	B06-A01 C06-A01 E06-A01	Benzoxathiazole	B06-G C06-G E06-G	Bicomponent filaments	A12-S05B F01-E01+
Benzo(c)furan	B06-A02 C06-A02 E06-A02	Benzoxathiin	B06-C C06-C E06-C	Biguanide	B10-A17 C10-A17 E10-A17 E10-A17A E10-A17B
Benzocinnoline	B06-D16 C06-D16 E06-D16	Benzoxathiole	B06-C C06-C E06-C	Biguanide polymers	A05-J11
Benzodiazepine	B06-D07 C06-D07 E06-D07	Benzoxazepine	B06-E03 C06-E03 E06-E03	Bile active	B12-G02 B14-N12 C12-G02 C14-N12
				Bile extracts	B04-B04H C04-B04H

Bilharzia treatment	B14-B03B C14-B03B	Biological warfare agents protection against	K02-A02	epoxy resins based on phenoxy resins based on	A05-A02 A05-H06
Binders (see also Adhesive)		Biological water treatment	D04-A01J J01-D07	Bisquaternary ammonium compounds	B10-A21 C10-A21 E10-A21
(meth)acrylamide		Biomass	B04-D03 C04-D03	Bitumastic compositions	L02-D10
(co)polymer, use in	A04-D04A1	Biomass conversion	E11-I	Bitumen	A03-C03 B04-D02 C04-D02 H08-B A07-A01A
(meth)acrylate		Biomass production by fermentation	D05-C13	in polymeric blend	A03-C03
(co)polymer, use in	A04-F06E6	Bioremediation using microorganisms	M25-F02	Black and white silver halide	
(meth)acrylic acid/ anhydride copolymer, use in	A04-F04B	Biorientation - see Biaxial drawing		bleach-fixing	G06-G02
compositions	A12-A05+ A12-L05D	Biosimilars	B04-R C04-R	developing	G06-G01
electrophotographic	A05-A01E3	Biosensor	J04-B05	fixing	G06-G02
epoxy resins, use in	L02-C	Biosynthesis	B11-A C11-A D05-A D05-C	other processes	G06-G04
for concrete	A12-A02			stabilisation	G06-G03
for core moulds	A12-A02	using algae	B11-A03 C11-A03	Blades	
for earth consolidation	A12-A02	on hydrocarbon substrates	H04-E02	aircraft propeller	A12-T04
for food	D03-H01R	using enzymes	B11-A02 C11-A02	fan	A12-H
for foundry moulding (inorganic)	M22-A02	using microorganisms	B11-A01 C11-A01	for cutting plastics	A11-A05+
for foundry moulding (organic)	M22-A03			razor	A12-V04
for magnetic layers and dispersions	L03-B05D4 A12-B02B	Bird killing	B12-N05 B14-B10 C12-N05 C14-B10	turbine	A12-H
for non-woven fabrics	F02-C02B1 A12-W10C	Bird repellents	B12-N05 B14-B13 C12-N05 C14-B13	Blankets	
for oil wells	A12-L01	Birth control devices	A12-V03B1 B12-K03 B14-P01 C12-K03 C14-P01	bedding	A12-D01 F04-D01
for photography	A12-L01 G06-A06 H08-E08			electric	A12-D01 A12-E10
from petroleum products		Bis(hydroxyethyl)-terephthalate	A05-E04A	non-woven	F02-C01
phenol-formaldehyde resin, use in	A05-C03A	Biscuits	D01-B02C	printing	A12-W07F
phenolic resins, use in	A05-C01B1	Bishaloformates		Blast furnace pig manufacture	M24-A02
polyethylene, use in	A04-G02E1	+diamine based		by applying additives	M24-A02A
PVA, use in	A10-E09B1	polyurethane	A05-G	making slags of special composition	M24-A02B
PVC, use in	A04-E02E2	condensants	A01-E12		
saturated polyester, use in	A05-E01D1	Bismaleimide		Blasting	K03-B
silicon polymer, use in	A06-A00E1	(co)polymers by addition monomer	A04-B11 A01-C06	compositions	A12-T03A
Binding enzymes to carriers to polymeric carriers	D05-A01C2 A12-W11L	Bismaleimide-amino polymer - see Polyamino-bismaleimide		gas generation for	K04-C
Biochip	B11-C08E6 C11-C08E6	Bismuth		Blasting-caps	K04-B01
Biocides	B12-A01 B14-A01 C12-A01 C14-A01 D09-A01 H06-D08 A08-M02	alloys	M26-B	Bleach activators	D11-B01D1
for fuels		catalysts	N03-H	booster	D11-B01E
for polymer	A08-M02	Bismuth compounds	B05-A02 C05-A02 E35-M E05-J	catalysts for	D11-B01D2
Biodegradability of polymers	A09-A07	inorganic			
Biodegradable detergents (or additive)	D11-D06	organic		Bleaching	
Biodiesel	H06-B04A	Bismuth production	M25-G07	agents (optical), detergent	D11-B01
Bioelectronics	B11-C04K C11-C04K	Bisphenol A	E10-E02D4	agents (optical), inorganic	A08-E02
Bioflavonoids	B03-K C03-K	condensant	A01-E13	agents (optical), organic	A08-E03C
Biofuels	H06-B07	diallyl ether monomer	A01-C02	apparatus	A11-A01B
Bioinformatics	B11-C08F+ C11-C08F+	diglycidyl ether	A05-A02	black and white	
Biobleaching	D05-K	epihalohydrin polyethers	A05-H06	(photographic)	G06-G02
Biological gas separation methods	J01-E03H			catalysts for dye bleaching	G06-C03
Biological procedures in tests	B11-C08E C11-C08E			colour (photographic)	G06-G11
Biological repellents for fabrics	A12-S05R F03-C02B			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

Blends of polymers (see also Mixtures)	A07-A+	Lymphocytes	B04-F04B1 C04-F04B1	Boiler feed, anticorrosion additives	A12-W11J D04-A03
containing addition (co)polymers only	A07-A02+	Macrophages	B04-F04B2B C04-F04B2B	Boiling apparatus	J05-A
containing addition and condensation polymers	A07-A04+	Neutrophil	B04-F04B2C C04-F04B2C	Boiling pans (sugar)	D06-D
containing condensation polymers only	A07-A03+	Other white blood cells	B04-F04B2 C04-F04B2	Bolts	A12-H12
containing natural polymers	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, polymeric agents, aids, silicon compounds	A08-M01D
Blocking agents		Blowing melt	F01-C07A	fibrous webs to give non-woven fabric	A12-B02B F02-C02B+
for condensants/monomers	A02-C	Blowing agents	A08-B+	using adhesive (for specific goods)	A11-C01C
for crosslinkers, for ethylenically unsaturated and addition (co)polymers	A08-C06	others	A08-B	using adhesive (general use)	A11-C01D
for crosslinkers, for other polymers	A08-D+	pore formers	A08-B04	Bone	
Blood	B04-B04D C04-B04D	pressurised gases	A08-B04	disorder treatment	B12-J08 B14-N01 C12-J08 C14-N01
Albumin (serum)	B04-B04D2 C04-B04D2	releasing carbon dioxide	A08-B02	Bone (including marrow)	B04-B04E C04-B04E D09-C01D
bags	A12-V03B	releasing nitrogen	A08-B03	artificial	
blood proteins	B04-B04D2 C04-B04D2	soluble materials	A08-B04	Bone Morphogenetic Protein	B04-H06L C04-H06L
dialysis	J01-C03B1	volatile materials	A08-B04+	Book binding	A12-W07+
filtration	J01-F04X2	Blowing glass	L01-E03	Boots - see Footwear	
Haemoglobin	B04-B04D2 C04-B04D2	Blowing of tubular films	A11-B07A A12-S06A	Borate containing glass compositions	L01-A06
handling apparatus	A12-V03B	Blue sensitive (electro)-photographic layers	G06-C14B	Borazoles	E05-C E05-C01 E05-C02
parasite	B04-B02B C04-B02B	Blueing agents	D11-B01C	condensants/monomers	A01-A01
parasite (microbial)	B04-F01 C04-F01	BMC	A12-S	Bordetella	B04-F10A1 C04-F10A1
parasite (nonmicrobial)	B04-P01	Board games	A12-F01	Boride containing hard alloys	M26-B12
plasma	B04-B04D4 C04-B04D4	Boards	A12-A04+ F05-A06+ A12-A04B F05-A07 A12-A04A A12-A04B F05-A07	Borides	
serum	B04-B04D4 C04-B04D4	cardboard	A12-R01A L02-D07A	abrasive	L02-F03
substitutes	B12-H06 B14-F11 C12-H06 C14-F11	chipboard	A12-A04B F05-A07	ceramic	L02-H02B1
sugar increasing	B14-F10 C14-F10	decorative	A12-A04B F05-A07	Boriding metals	M13-D M13-D03B M13-D02B M13-D01B
sugar lowering	B12-H05 B14-F09 C12-H05 C14-F09	fibreboard	A12-R01A L02-D07A	using gases	
vessels, artificial	A12-V02 D09-C01B	gypsum	A12-A04B F05-A07	using liquids	
whole blood	B04-B04D5 C04-B04D5	particleboard	A12-A04C F05-B	using solids	
Blood cells	B04-F04 C04-F04	plywood	F01-H03C F02-E01	Boron	
Red blood cells	B04-F04A C04-F04A	Bobbin handling, in winding (textile)	F01-H03A	catalysts	N01-D N01-D01 B05-B02C C05-B02C E31-Q
White blood cells	B04-F04B C04-F04B	Bobbin lace	F02-E01	element	E11-F10
B-lymphocytes	B04-F04B1B C04-F04B1B	Bobbins	F01-H03A	Boron-alkylation	
Dendritic cells	B04-F04B2A C04-F04B2A	Body joints, artificial	A12-V02 D09-C01D	Boron compounds	
		Body parts preservation (chemical)	D09-A01 D09-A03	condensants/monomers	A01-A01
		Body wash	D08-B09A2 D08-B09A2A D08-B09A2B	fillers/reinforcing agents	A08-R05
		Liquid		heat stabiliser for polymers	A08-A04A
		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
		Brewer's yeast production	D05-B04		
		Brewing devices	D05-B D05-J		
		Bridged carbocyclic metallocenes	E05-V02	Brooms	A12-D03
Boron containing compound		Bridge construction	A12-R	Brushes	
crosslinkers for ethylenically unsaturated polymers for other polymers	A08-C09 A08-D05	Brighteners for metal electroplating	M11-B01	electrical fibre/filaments use in hair	A12-E08B F04-G A12-V04A
Boron containing compounds		Brighteners for paper, cardboard	F05-A06D	household paint	A12-D03 A12-D03
Boron in polymers		Brighteners, fluorescent (textile)	E24-A E24-A04 E24-A02 E24-A04B	shaving tooth	A12-V04 A12-V04B
by addition polymerisation	A04-A	benzoxazole type	E24-A02 E24-A04B	Bryophytes	B04-A08A C04-A08A
by condensation polymerisation	A06-C A10-E22	coumarin type	E24-A02 E24-A04B	BSE treatment	B14-N16A C14-N16A
by polymer modification		other	E24-A03 E24-A04C	Bubbles, magnetic	L03-B06
Boron trifluoride	E31-Q	stilbene type	E24-A01 E24-A04A	Buckets	A12-D04
crosslinker for ethylenically unsaturated polymers	A08-C09			Buckminsterfullerene	B05-U02 E05-U02 L02-H04B
crosslinker for other polymers	A08-D05				
polymerisation catalyst	A02-A04	Brighteners, optical		Buckyballs	L02-H04B
Boronising, using solid	M13-D01B	inorganic	A08-E02	Buffers (polymerisation control)	A02-D01
Borosilicate containing glass compositions	L01-A06	organic	A08-E03C	Build-up welding (electric arc)	M23-D01A2
Borrelia	B04-F10A2 C04-F10A2	Brighteners, photographic	G06-H09 G06-H09C	Builders for detergents	D11-B03
		coumarin type	G06-H09A	Building	
Bottles		oxazole type	G06-H09B	board	A12-R+
glass, coating of	A12-B05 L01-G04A	stilbene type	G06-H09D	fittings/fixtures	L02-D07 L02-R02+
plastic	A12-P06A	thiazole type		glass in	L01-L01
Bovine Spongiforme		Brighteners, polymeric	A12-W12E	polyethylene, use in	A04-G02E4
Encephalopathy treatment	B14-N16A C14-N16A	plating bath additives	M14-B	polyurethane foam, use in	A12-S02F
		Brightening metals chemically	H09-F	PVC use in	A04-E02E1
Bowel disease treatment	B14-E10C C14-E10C	Briquettes (coal)		unsaturated polyester, use in	A05-D02E1
Inflammatory bowel disorder	B14-E10C1 C14-E10C1	Briquetting	H09-F		
		coal	M24-A01A M25-A02	Bulimia	B14-E11D C14-E11D
		ferrous ore			
		non-ferrous ore			
Boxes	A12-P06B	Bristles	A12-S05E F01-E05	Bulk colouring	
Bradykinin	B04-C01B B04-J01 C04-C01B C04-J01	Brominated/ bromination of polymers	A10-E04A	agents	A08-E+
		Bromine catalysts	N04-D	processes	A11-A01B A11-A01A
Braid lace	F02-E01	Bromine or derivatives (see also Halogen or derivatives)		Bulk dyeing before fibre formation	F03-F30
Braiding	F02-E01	Bromo - (see also Halo-)		Bulk graft copolymerisation	A10-C03C
Braiding machines	F02-E01	Bromostyrenes		Bulk moulding compounds	A12-S
Brake materials (polymer use)	A12-H10	(co)polymers	A04-C	Bulk polymerisation	A10-B02
Bran	B04-A07D B04-A09F C04-A07D C04-A09F	monomer	A01-D02	Bulked fibres	A12-S05C F01-E01A F01-E04
		Bromosulphonated/ bromosulphonation of polymers	A10-E12B	Bulking of fibres	F01-H04
extracts	B04-A10G C04-A10G	Bronchitis treatment	B12-K06 B14-K01 C12-K06 C14-K01	Bulking polymeric films/fibres	A11-B02D
Brazing	M23-A			Bumpers, vehicle	A12-T04D
apparatus	M23-A03			Bunt treatment	C14-A06S
fluxes	M23-A02	Bronchoconstrictors	B14-K01C C14-K01C	Buoys	A12-T
metal compositions	M23-A01			Buried layer formation in semiconductors	L04-C10G
methods	M23-A04	Bronchodilators	B12-K02 B14-K01D C12-K02 C14-K01D	Burn treatment	B12-A07 B14-N17A C12-A07 C14-N17A
printed circuits (including soldering)	L03-H04E6				
Bread	D01-B02A				
Break detection in winding	F01-H03B				

Burr removal on metal castings	M22-G03H
polymers	A11-A05B
Butadiene	E10-J02C
(co)polymers in polymeric blends	A07-A+
copolymer with acrylonitrile	A04-B04
copolymer with styrene	A04-B03+
copolymer with styrene and acrylonitrile (ABS)	A04-C03
copolymers (other)	A04-B05
diepoxide	A05-A
	E07-A03A
homopolymers	A04-B02+
homopolymers production monomer	A04-B02A
	A01-C05
Butane diol	E10-E04H1
condensant	A01-E14
diglycidyl ether	A05-A03
	E07-A03B
Butane diol + isocyanate based polyurethane	A05-G04
Butene-1	E10-J02C
copolymer with ethylene	A04-G06+
copolymer with propylene	A04-G09
copolymers, other	A04-G04
homopolymer	A04-G04
monomer	A01-D13
Butt welding, resistance	M23-D02A1
Butter	D03-B
	D03-B12
Butter substitutes	D03-C
Button holes for garments	F04-C04
Button holes, cutting fabric for	F04-F01
Button holes, sewing of	F02-F01A1
Buttons	A12-C03
	F04-C04
Butyl lithium polymerisation catalyst (excluding with transition metal (compounds))	A02-A07B
Butyl rubber	A04-G05A
Butylated melamine-formaldehyde resin	A10-E08C
Butylene - see Butene-1	

C

CAB	A03-A02
	A03-A03
Cabinets	
as furniture	A12-D01
for electrical goods	A12-E05
Cable drilling	H01-B04
Cables	
optical, coatings	G02-A05H
Cables (see also Electrical)	A12-P07
	F04-A
	L03-A01B1
coatings on polymeric	A12-B07C
foam use in	A12-S04E
insulation	A12-E02+
joints	L03-A01B2
optical	A12-L03A
optical glass fibre	L01-F03L
textile	F04-A
Cabling of yarn	F01-H01
Cacheixia treatment	B14-E11B
	C14-E11B
Cadmium	
alloys	M26-B07
catalysts	N03-F02
electrodes for batteries	L03-E01B4
Cadmium compounds	B05-A03B
	C05-A03B
as pigment or filler	G01-A03
inorganic	E35-D
organic	E05-M
	E05-M03A
Cadmium production	M25-G09
Cadmium selenide	L04-A03B
Cadmium sulphide	L04-A03A
Caesium see Cesium	
Caffeine	B04-A06
	C04-A06
Cake	D01-B02B
Calciferol	B03-G
	C03-G
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

Calcium carbonate filler/reinforcing agent	A08-R
	G01-A01
Calcium catalysts	N01-B
Calcium compounds	B05-A01B
	C05-A01B
inorganic	E34-D
organic	E05-B01
Calcium entry blockers	B12-F05B
	B12-G01
	B14-F02B2
	C12-F05B
	C12-G01
	C14-F02B2
Calcium halides	E34-D02
Calcium hydroxide	E34-D01
Calcium nitrate	E34-D03
Calcium oxide	E34-D01
	L02-B01
Calcium production	M25-G05
Calcium sulphate cements	E34-D02
	L02-C05
Calcium sulphites	E34-D03
Calxivirus	B14-A02B0
	C14-A02B0
Calendering, calenders of fabrics	A11-B03
	F03-A01
Calenders, for papermaking machines	F05-A05
Californium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Calmant	B12-C10
	B14-J01B4
	C12-C10
	C14-J01B4
Cameras	A12-L02A
Camouflage textiles	F04-E02
Camping equipment	A12-F01
Cancer cells	B04-F02A
	C04-F02A
Cancer diagnoses	B12-K04A1
	C12-K04A1
Cancer treatments	B14-H01
	C14-H01
Dermatological cancers	B14-H01C
	C14-H01C
Endocrine cancers	B14-H01D
	C14-H01D
Bladder cancers	B14-H01F6
	C14-H01F6
Breast cancers	B14-H01D1
	C14-H01D1
Thyroid cancers	B14-H01D2
	C14-H01D2
Gastrointestinal cancers	B14-H01E
	C14-H01E
Colon cancers	B14-H01E1
	C14-H01E1
Oesophageal cancers	B14-H01E2
	C14-H01E2
Gall bladder cancers	B14-H01E3
	C14-H01E3

Intestinal cancers	B14-H01E4 C14-H01E4	Canning of foodstuffs	D03-H02F	Carbohydrate (excluding sucrose)	B04-D01 C04-D01
Hepatic cancers	B14-H01E5 C14-H01E5	Cap spinning	F01-G02		D06-G D06-H
Pancreatic cancers	B14-H01E6 C14-H01E6	Capacitive pastes, thick film	L03-B03C	as detergent additive	D11-B10
Rectal cancers	B14-H01E7 C14-H01E7	Capacitive touch panel	L03-G05I	Carbolines	B06-D15 C06-D15 E06-D15
Stomach cancers	B14-H01E8 C14-H01E8	Capacitors		Carbomycin	B02-C01 C02-C01
Genitourinary cancers	B14-H01F C14-H01F	electrical, general	A12-E07B L03-B03 L03-B03A L03-B03G L03-B03B L03-B03J L03-B03C	Carbon and graphite	
Cervical/uterine cancers	B14-H01F1 C14-H01F1	electrolytic		general	L02-H04
Kidney cancers	B14-H01F2 C14-H01F2	inorganic		conductors	L03-A02B
Ovarian cancers	B14-H01F3 C14-H01F3	monolithic		Carbon black	B05-C06 C05-C06 E31-N
Prostate cancers	B14-H01F4 C14-H01F4	multilayer		electroconductive filler	A08-R03
Testicular cancers	B14-H01F5 C14-H01F5	thick film		filler/reinforcing agents	A08-R03 G01-A11
Immunological cancers	B14-H01G C14-H01G	Capillary permeability increasing	B12-H02 B14-F04 C12-H02 C14-F04	pigments	A08-E02 G01-A11
Hodgkin's lymphoma	B14-H01G1 C14-H01G1	Caprolactam	B07-D06 C07-D06 E07-D06	product from petroleum production	H08-E01
Non-Hodgkin's lymphoma	B14-H01G2 C14-H01G2	condensant	A01-E04	production from petroleum	H04-B01
Musculoskeletal cancers	B14-H01H C14-H01H	polyamide (derived from)	A05-F03	Carbon catalysts	N04-A
Osteo cancers	B14-H01H1 C14-H01H1	Caprolactone	E07-A03C	supporting Pd or Pt	N02-F01
Sarcoma	B12-G07 C12-G07	condensant	A01-E12	Carbon ceramics	L02-H04
	B14-H01H2 C14-H01H2	polyester (derived from)	A05-E02	Carbon chain expansion/contraction process	B11-C01 C11-C01 E11-B
Neurological cancers	B14-H01J C14-H01J	Caps (including safety) for bottles etc.	A12-P03 B11-C06A C11-C06A	oligomer-/telomerisation	E11-F01
Brain tumours	B14-H01J1 C14-H01J1	Capsules (not microcapsules)	B12-M11C C12-M11C D11-D02B	addition of CO(2)	E11-F02
Oral and respiratory cancers	B14-H01K C14-H01K	detergent use		other chain extension	E11-F03
Buccal cavity and pharynx cancers	B14-H01K1 C14-H01K1	Car parts and accessories	A12-T04+	contraction	E11-G02
Larynx cancers	B14-H01K2 C14-H01K2	Carbamates inorganic (including thio)	E31-H	Carbon compounds (inorganic)	E31-N05
Lung cancers	B14-H01K3 C14-H01K3	removal from water	D04-B07C	Carbon dioxide	B05-C04 C05-C04 E31-N05
Other cancers	B14-H01L C14-H01L	Carbamic acid or ester (organic)	E10-A12C1	Carbon disulphide	B05-C04 C05-C04 E31-N05
Multiple myelomas	B14-H01L1 C14-H01L1	Carbamic acid, or ester (organic)	B10-A12C C10-A12C E10-A12C E10-A12C2	Carbon electroconductivity agents	A08-M09A1
Candida	B04-B02B2 B04-F09 C04-B02B2 C04-F09	Carbamides	E10-A13B E10-A13B1 E10-A13B2	Carbon electrodes for batteries	L03-E01B3
Candles	D10-B03	Carbapenems	C02-P C06-D04	Carbon fibre--	F01-D09A L02-H04A F03-F12 E31-N02 F03-F12 E31-N01 A08-R03A E31-N04E
disinfection/deodorisation of air	D09-B02	Carbazoles	B06-D13 C06-D13 E06-D13	dyeing	A08-R03+ G01-A11
Candy	B03-E10+ C03-E10+ D03-E10B+ D03-E10A+	Carbides	E31-N05 L02-H02 L02-F03 L02-J01B L02-H02A M26-B12	graphitisation	
Chewy		abrasive		printing	
Hard		cemented		production	
Cannabinoid agonist	B14-L01B C14-L01B	ceramic		reinforcing agents	
Cannabinoid antagonist	B14-L06B C14-L06B	hard alloys		use	
		Carbodiimide	B10-A20 C10-A20 E10-A20 E10-A20A E10-A20B	Carbon fillers	
				Carbon isotopes	B05-A04C C05-A04C
				Carbon modification	E31-N02
				Carbon monoxide	B05-C08 C05-C08 E31-N05B1 N05-B A04-A05
				complex catalyst	
				copolymer by addition	

hydrogen mixture monomer/condensant	E31-A A01-A	Carbonium compounds	B10-A01 C10-A01 E10-A01	plasticiser	A08-P +
Carbon nanotubes	L02-H04B B05-U03 C05-U03 B05-U04 C05-U04 E05-U03 E05-U04	Carbonylation reaction hydroformylation of olefinic bonds	E11-F02A E11-F02A	Carboxylic acid esters, monoolefinic	B10-G02 C10-G02 E10-G02
double-walled	E05-U03B	Carboxylation reaction (addition of CO ₂)	E11-F02B	aliphatic: (co)polymer (acrylic) - (see also acrylate, alkyl)	A04-F06+
multiple-walled	E05-U03C	Carbonyl complex catalysts	N05-B	aliphatic: (co)polymer (non-acrylic)	A04-F07
single-walled	E05-U03A	Carbonyl halides inorganic	B05-C07 C05-C07 E31-N05	aliphatic: monomer	A01-D10
Carbon paper	A12-D05A G05-D	Carbonyl of metal - see metal		Carboxylic acid esters, thio	B10-G01 C10-G01 E10-G01
Carbon production (general)	E31-N03	Carbonyl of metal - see metal		Carboxylic acid halides	B10-A25 C10-A25
active	E31-N03C	Carbopols ®	A04-A03 A04-F04+		E10-A25 E10-A25B1 E10-A25B2
diamond	E31-N03A	Carboranes	E05-C E05-C01 E05-C02	condensant, alicyclic condensant, aliphatic condensant, aromatic	A01-E12 A01-E12 A01-E11
graphite	E31-N05B			Carboxylic acid halides, monoolefinic (co)polymers	A04-E A01-D12
Inert	E31-N05D			Carboxylic acid imides	B10-A24 C10-A24 E10-A24 E10-A24A E10-A24B
Carbon refractories	L02-E07	condensants/monomers	A01-A01		
Carbon sorption (petroleum processing)	H02-B03	Carboxy group formation/ formed in polymer (excluding hydrolysis)	A10-E23	Carboxylic acid, alicyclic	B10-C04A C10-C04A E10-C04A
Carbon tetrabromide	E10-H02D E10-H03D2 E10-H04D2	Carboxyalkyl starch	A10-E08C B04-C02B C04-C02B	condensant	A01-E12
flame retardant	A08-F04C			Carboxylic acid, aliphatic	B10-C04 C10-C04 E10-C04 A01-E12
Carbon thermal conductivity agents	A08-M09C1	Carboxylase inhibitor	B14-D08 C14-D08	condensant containing hydroxy, aldehyde or ketone	B10-C04D C10-C04D E10-C04D
Carbon type fillers	A08-R03+ G01-A11	Carboxylated acrylonitrile- butadiene rubber	A04-B05 A04-D03 A04-F04	General acyclic monocarboxylic acid	B10-C04E C10-C04E E10-C04E
Carbon use	E31-N04	Carboxylated styrene- butadiene rubber	A04-B05 A04-C04+ A04-F04+	Substituted acyclic monocarboxylic acid	B10-C04E1 C10-C04E1
Carbon, activated	J01-E02B3 J01-E03C3			Other saturated monocarboxylic acid	B10-C04E6 C10-C04E6
Carbon, element	B05-C06 C05-C06 E31-N L02-H04	Carboxylic acid amides	B10-D03 C10-D03 E10-D03	Other unsaturated monocarboxylic acid	B10-C04E4 C10-C04E4
Carbon-less paper	A12-D05A G05-D			Carboxylic acid, aromatic	B10-C C10-C E10-C A01-E11
Carbonates, as detergent additive	D11-B11 D11-B11C	aliphatic, monoolefinic (co)polymer uses	A04-D04A+	Carboxylic acid, di- see Polycarboxylic acid	
Carbonates, inorganic (general)	B05-C04 C05-C04 E31-N05	aliphatic, monoolefinic (co)polymers	A04-D04+	Carboxylic acid, mono- unsaturated (non-acrylic) (co)polymers	E10-C04E A04-F05
Carbonic acid	E31-N05C B10-A11B C10-A11B	aliphatic, monoolefinic monomer	A01-D06 A01-E03	monomer	A01-D08
Carbonic acid esters	B10-A11B C10-A11B E10-A11B E10-A11B1 E10-A11B2	condensant	B10-D02 C10-D02 E10-D02	Carboxylic acid, monoolefinic (acrylic) (co)monomer	E10-C04G A01-D08
Carbonic anhydrase inhibitor	B12-G01B4 B14-D08 C12-G01B4 C14-D08	Carboxylic acid anhydrides	B10-A25 C10-A25 E10-A25 E10-A25A1 E10-A25A2		
Carbonisation, carbonised polymers	A10-E05B	condensant, alicyclic condensant, aliphatic condensant, aromatic	A01-E12 A01-E12 A01-E11		
Carbonised lace	F02-E01	Carboxylic acid anhydrides, monoolefinic (co)polymer (acrylic)	A04-F04		
Carbonising rags	F01-B01	(co)polymer (non-acrylic) monomer	A04-F05 A01-D08		
Carbonitriding, using solid	M13-D01B	Carboxylic acid detergents	D11-A01A1		
		Carboxylic acid esters	B10-G02 C10-G02 E10-G02		

polymer	A04-F04+	Cardiotonic	B12-F01B	Directional solidification	M22-G03L
polymer adhesives/coatings	A04-F04B		B14-F01B	fettling and post-treatment	M22-G03H
polymer preparation/ composition	A04-F04A		C12-F01B	For aero engines	M22-G03K1A
			C14-F01B	For IC engines	M22-G03K2
Carboxylic acid, poly - see Polycarboxylic acid		Cardiovascular	B12-E01	For turbines	M22-G03K1
			B12-F01	furnaces, ladles and ancillary equipment	M22-G03G
Carboxylic acid, thio	B10-C01		B14-F01	ingots for forging	M22-G02
	C10-C01		B14-F02	Investment casting	M22-G03N
	E10-C01		C12-E01	machines and processes	M22-G03
Carboxylic amide detergents	D11-A01A3		C12-F01	mold cleaning apparatus	M22-G03G7
Carboxylic ester detergents	D11-A01A2		C14-F01	mold handling apparatus	M22-G03G8
Carboxymethyl cellulose	A03-A04+	Cards	C14-F02	pigs	M22-G01
	B04-C02A2	pattern, for knitting machines	F02-B01	Rapid Solidification	
	C04-C02A2	pattern, for looms	F02-A02	Processes	M22-G03M
uses	D06-H	punch, for knitting machine	F02-B01	treatment of metal in the mould	M22-G03G4
	A03-A04A			vacuum	M22-G03E
Carboxyvinyl polymer - see Carbopols		Carotenoid	B03-A	Casting molten ceramics	L02-A05
			C03-A		
Carburettors	A12-T04C	Carotenoid dyes	E25-B	Casting polymers	A11-B04+
Carburising metal	M13-D	Carpet back coatings	F03-E01	by other specific moulding	A11-B04B
using gas	M13-D03A		F04-D	by rotational moulding	A11-B04A
using liquid	M13-D02A	Carpets	A12-D02	forming films, sheets, lace	A11-B04C
using solid	M13-D01A		F04-D04	with condensant/ monomer and polymerising	A11-B04+
Carcinogen	B14-H02	tufted	F02-D		
	C14-H02	woven	F02-A03A	Casts (medical)	A12-V03A
Carcinoma	B04-F02A	Carrageenan	A03-A+	Cataleptics	B12-C03
	C04-F02A		B04-C02D		B14-J01B
			C04-C02D		C12-C03
Cardboard	F05-A06+	Carrier			C14-J01B
adding (in)organic compounds	F05-A06D	having adhesive	A12-A01A	catalysts	J04-A02
adding polymers or resins to	F05-A06C	Carrier layers, photographic	G06-A	Catalysts	J04-E
applying coatings to	F05-A06B	Carriers		cadmium	N03-F02
coatings on	A12-B03+	electrophotographic	A12-L05C2	carrier for petroleum refining	
corrugated	F05-A06A	for micro-organisms	A12-W11L		H04-F03
multiply materials	F05-A06A		D05-A03A	carrier for polymerisation	A02-D
production	A11-B09B			carrier, general	J04-E03
	F05-A04+	Cartilage (or extract)	B04-B04E	carrier, oxide	L02-G12
	F05-A06		C04-B04E	cerium	N03-A02A
				containing phosphorus	E31-K01
Cardiac agents	B12-F01	Cartons	A12-P06B		N04-B
	B14-F01	for fibres	F01-H03A		N05-E01
	C12-F01	Cartridges	K03-A01		N06-B03
	C14-F01	Casein	A03-C01	composition, petroleum processing	
Cardiac arrest treatment	B12-F01B		B04-B04A6		H04-E06
	B14-F01B		B04-N02	deactivator	A02-C
	C12-F01B		C04-B04A6	dehydrogenation	J04-E04B
	C14-F01B		C04-N02	destruction	A10-G01A
Cardiac depressant	B14-F01C	Casings for batteries	A12-E06C	electrocatalyst	J04-E04D
	C14-F01C		L03-E01D	electrocatalytic reactions	N07-G
Cardiac disorder diagnoses	B12-K04A2	Cast components		fixed bed	N06-C05
	B12-K04G2B	electrical	A12-E04	fluidised bed	N06-C06
	C12-K04A2	other products	A12-W05	for hydrocarbon processing	H04-F
	C12-K04G2B	Cast iron		for sensor application	J04-E09B
Cardiac insufficiency treatment	B12-F01B	alloys treatment	M27-B03	fuel cell electrode	L03-E04B1
	B14-F01B	production	M24-B01B	gallium	N03-G04
	C12-F01B	spheroidising	M24-C05	general	N06
	C14-F01B	Castable (slip) refractories	L02-E05	germanium	N03-G02
Cardiac stimulants	B12-F01B	Casting (slip)	L02-A03	homogenous	N06-C04
	B14-F01B	Casting glass	L01-D02	hydrogenation	J04-E04B
	C12-F01B			indium	N03-G01
	C14-F01B	Casting metal	M22-G	lanthanides (general)	N03-A02
Carding yarn processes	F01-F01	centrifugal	M22-G03B	lanthanides (other than cerium)	N03-A02B
Cardioactive	B12-F01	chill	M22-G03C	lanthanum	N03-A01
	B14-F01	continuous	M22-G03A	lead	N03-G04
	C12-F01	control and testing	M22-G03J	mercury	N03-F02
	C14-F01	die	M22-G03D	oxidation/reduction	J04-E04A
				organic N compounds	N05-D
				organic polymer	N05-E03A

palladium carboxylate	N02-F04	Catamenial devices with		primary and secondary,	
palladium inorganic cpd	N02-F05	special shape	B12-M02D	components, electrolyte	L03-E01C
phase transfer	N06-H		C12-M02D	primary and secondary,	
platinum carboxylate	N02-F06		D09-C02	components, non-active	
platinum inorganic compound	N02-F05	Catapasm	A12-V03A	component	L03-E01D
polymer use in	A12-W11K		B12-M02C	primary and secondary,	
polymerisation	A02-A+		C12-M02C	components, separator	L03-E01A
production, manufacture	H04-F05		D09-C04A	secondary	L03-E03
	J04-E11	Cataractic treatment	B12-L04	component production	L03-E08
promoter	N06-G		B14-N03	Cells, electrolytic	J03-B02
radium	N03-A03		C12-L04	polymer use in	A12-E09
recovery from polymer	A10-G01A		C14-N03	Cells, electrolytic (metallurgy)	M28-C
recovery with S removal	E31-F01	Catarrh treatment	B12-D02	construction and assembly	M28-C03
regeneration/recovery	J04-E05		B14-K01E	electrodes	M28-C01
	N06-E+		C12-D02	operating and servicing	M28-C02
resin, organic	N05-E03A		C14-K01E	Cells, fuel	L03-E04
scandium	N03-A01	Catatonic	B12-D10	polymer use in	A12-E06+
support	N06-F		B14-J01B1	solid oxide electrolyte	L03-E04A
support, for polymerisation	A02-D		C12-D10	Cells, living	B04-B04A
support, polymer use as	A12-W11K		C14-J01B1		B04-F01
testing	J04-E10	Catheters	A12-V03B		C04-B04A
thallium	N03-G04		B11-C04B		C04-F01
thorium	N03-A03		C11-C04B	Amphibian	B04-F07B
tin	N03-G03		D09-C01F		C04-F07B
titanic acids	N03-B01A			animal	B04-F01
titanium element	N03-B01A	Cathode ray tubes	A12-E11A		C04-F01
titanium hydroxides	N03-B01A	production of	G06-D06	avian	B04-F07E
titanium oxides	N03-B01A	resists used in manufacture	A12-L02B2		C04-F07E
unspecified	N06	structural parts for	L03-C03	avian (transgenic)	B04-F07E0E
yttrium	N03-A01	Cathode sputtering			C04-F07E0E
zinc	N03-F01	apparatus for		blood	B04-B04D1
Catalytic		semiconductor manufacture	L04-D02		B04-F04
chain contraction	N07-F05	magnetrons	M13-G02B		C04-B04D1
chain expansion	N07-F05				C04-F04
cracking	H04-B02	Cathodes - see Electrodes		cancer/carcinoma	B04-F02A
	N07-F02	Cathodic protection	M14-G		C04-F02A
cyclization	N07-F07	Cathodic sputtering		chimeric/fused	B04-F05A
decyclization	N07-F08	apparatus including			C04-F05A
dehydration	N07-F06B	target materials	M13-G02	culture	D05-H08
dehydrogenation of C-C		processes	M13-G01	culture tests	B11-C08E1
bonds	N07-C02				C11-C08E1
dehydrogenation process		Cation exchange resins - see		division inhibitors	B12-G07
(other than of C-C bonds)	N07-C03	ion exchange resins			B14-H01B
dehydroxylation	N07-F06B	Cationic detergents	D11-A02		C12-G07
detection process	N07-L03B	Cationic dyes for dyeing/		Eucaryotic	C14-H01B
diaphragm	N06-C03	printing fibres	F03-F22		B04-F01
electrode	N06-C02	Cationites - see Ion			C04-F01
gas separation	J01-E03F	exchange resins		Fish	B04-F07D
gas treatment	J01-E03F				C04-F07D
hydrogenation of		Cats eyes	A12-R	hybridomas	B04-F05
unsaturated C-C bonds	N07-B01	Cattle repellents	B12-N06		C04-F05
industrial effluent treatment	N07-L01B1		B14-B13		D05-H15
hydrolysis	N07-F06A		C12-N06	insect	B04-F07A
membrane	N06-C03		C14-B13		C04-F07A
nitration	N07-D08C	Caulking compositions	A12-R08	mammal	B04-F02
oxidation other than with			G04-B02		C04-F02
air or oxygen (O2)	N07-C03	Ceilings	A12-R07	monoclonal antibody	
oxidation with air	N07-C01			producing	B04-F05
oxidation with oxygen (O2)	N07-C01	Cell control agents for			C04-F05
processes general	J04-E01	polymers	A08-S07	ova	B04-F03
	N07+	Cellophane	A03-A05		C04-F03
purification processes	N07-L01+	Cells, electrical	L03-E	plant	B04-F08
reforming	H04-C02	polymer use in	A12-E06+		C04-F08
removal of nitrogen		primary	L03-E02	protozoa	B04-F06
oxides from waste gases	E31-H01	primary and secondary,			C04-F06
	N07-L02C	components	L03-E01	recombinant (unspecified)	D05-H14
waste gas treatment	J01-E02D	primary and secondary,		Recombinant cell lines	D05-H14B
	N07-L01C	components electrode	L03-E01B	recombinant microbial	D05-H14A
waste treatment apparatus	J04-E09A			Reptile	B04-F07C
Catalytic proteins	B04-L01				C04-F07C
	C04-L01				

sperm	B04-F03	polysaccharides	A03-A01+	ceramic/fibre-reinforced	
	C04-F03		B04-C02A	metal	L02-J01D
stem	B04-F02B		C04-C02A	ceramic/glass	L02-J02A
	C04-F02B	polysaccharides, fibres,		ceramic/metal	L02-J01
Cell therapy	B14-S21	textiles	A03-A01A	ceramic/non-metal	L02-J02
	C14-S21			ceramic/plastic	L02-J02B
Cells, polymer use in		Cement - (see also Adhesives)	L02		
electrochemical/electrolytic	A12-E09	accelerator	L02-C08	Ceramic contacts for	
fuel including		additive	L02-C08	semiconductor devices	L04-C11A
accumulators, batteries	A12-E06+	alumina	L02-C07	Ceramic-metal seal	L02-J01C
Cellulite treatment	D08-B15	calcium sulphate	L02-C05		
Celluloid ®	A03-A03	dental	A12-V02B	Ceramics	L02
Cellulose and derivatives	A03-A+		D08-A02	carbide	L02-H02A
	B04-C02A	gypsum	L02-C05	casting	L02-A05
	C04-C02A	magnesium	L02-C04	cleaning	L02-A10
acetate	A03-A02+	mixers	L02-D02	coating on metal	L02-J01E
acetate butyrate	A03-A02+	polymer coating on	A12-B08	coating with metal	L02-J01A
	A03-A03	polymer use in	A12-R01A	coating with polymer	A12-B08
acetate fibres	A03-A02A	Portland	L02-C02	colours	L02-G04
	F01-D01	Pozzuolanic	L02-C03	cutting	L02-A11
acetate fibres, dyeing/		production	L02-A01	decorating	L02-A07
printing	F03-F04	refractory	L02-E05	drying	L02-A03
acetate propionate	A03-A02+	retarder	L02-C08	extrusion	L02-A03
	A03-A03	slag	L02-C03	firing	L02-A04
butyrate	A03-A03	special	L02-C06	flame (plasma) spraying	L02-A06
detergent additive	D11-B10	testing	L02-A08	foaming	L02-A02C
diacetate fibre	A03-A02A	waste product	L02-C03	glazing	L02-A07
	F01-D01	with Portland clinker	L02-C03	household use	L02-K01
ester fibres		Cementation coating	M13-D	magnet	L03-B02B
ester fibres, dyeing/printing	F03-F04	Cemented carbide	L02-J01B	medical	L02-K02
ester fibres, production	F01-D01			melting	L02-A05
esters, excluding acetate	A03-A03	Cementing		metal coatings, processes	M13-F03B
ethers	A03-A04+	compositions	L02-D12A	metallised	L02-J01A
ethers use	A03-A04A+	of or with polymers	H01-C02B	mold release agent	L02-A03A
	A12-S05N	of petroleum wells	A11-C01+	nanomaterials	L02-A14
ethers preparation of	A03-A04B		A12-W10C	non-oxide	L02-H
fibres/fabrics dyeing/		Centralizer	H01-C02A	oxide	L02-G
printing	F03-F03		H01-B03C5	polymer use in	A12-W12G
nitrate	A03-A03	Centrally active (CNS)	B14-J01	production	L02-A
regenerated	A03-A05+		C14-J01	raw material preparation	L02-B
regenerated, fibres,		Centrifugal		raw material preparation	
textiles	A03-A05A	apparatus	J01-L	equipment	L02-A02
	F01-D06	casting of metal	M22-G03B	shaping	L02-A03
triacetate	A03-A02+	casting of plastics	A11-B04A	slip casting	L02-A03
triacetate, fibres	A03-A02A	separation: particles from		substrate for printed	
	F01-D01	gases	J01-G02	circuit	L03-H04E5
xanthate	A03-A05+	separation: petroleum		surface treatment	L02-A12
xanthate, fibres, textiles	A03-A05A	processes	H02-D03	testing	L02-A08
	F01-D06A	spinning of fibres	F01-C07	welding	L02-A11
Cellulose production,		Centrifugation in tests	B11-C08D3	Cereal	B04-A07D2
for paper	F05-A02+		C11-C08D3		B04-A09F
bleaching of pulp	F05-A02B	Centrifuges	J01-L01		C04-A07D2
pretreatment	F05-A02A				C04-A09F
pulp, aftertreatment	F05-A02B	Centrifuging		extracts	D03-R
pulping	F05-A02A	engine exhaust gases	H01-C04B		B04-A10G
recovery of pulping		liquids	J01-F03	preservation	C04-A10G
chemicals	F05-A02C	sludge from waste water	D04-B10A		D03-A05
regenerating of pulp liquor	F05-A02C	sugars	D06-C	Cerebral active	B12-C10
use of residues	F05-A02C	Cephalins	B04-B01B		B14-J01
waste water treatment	F05-A02C		C04-B01B		C12-C10
working up waste paper	F05-A02B	Cephalosporins	B02-C	Cerebroprotective	C14-J01
Cellulosic			C02-C		B14-J01
fibrous suspension,		Ceramic		Cerebrospinal fluid	B04-B04H
manufacture of articles		nitrides	L02-H02B2		C04-B04H
from	F05-A07	Ceramic coatings on		Ceric ammonium nitrate	
fillers	A08-R07	glass sheet	L01-G04C	polymerisation catalyst	A02-A03
paints	A12-B01D	Ceramic composites	L02-J	Cerium catalysts	N03-A02A
	G02-A02A	ceramic/ceramic	L02-J02C		

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		
Cerium oxide	L02-G01C2	releasing nitrogen	A08-B03	Chewing gum	A12-W09 B12-M11 D03-E+ D03-E09
production	L02-G12D2	Chemical brightening of metal	M14-B		
Cermets	L02-J01B	Chemical cleaning/ degreasing of metal		Chewy candy	D03-E10B
Cesium catalysts	N01-A	apparatus	M12-A04	chocolate	D03-E10B1
Cesium compounds	B05-A01B C05-A01B	cleaning/pickling		Chicken meat	D02-A03B
inorganic	E33-H	solutions or salts	M12-A01	Chill casting of metal	M22-G03C
organic	E05-A E05-A02	disposal/regeneration	M12-A03	using moulds or cores with	
		inhibitors	M12-A02	high thermal conductivities	M22-G03C1
		processes	M12-A05	Chinese herbal medicine	B04-A10 C04-A10
Chafer fabric	F04-E01	Chemical disinfection other than of food or air	D09-A01+		
Chain (carbon) expansion/ contraction	B11-C01 C11-C01 N07-F05	Chemical engineering	A12-W11+ J+	Chipboard	F05-A07 A12-B09 A12-A04B A03-A+ A11-B09B
catalyzed process		(meth)acrylamide		coating on	
chemical process	E11-B	(co)polymer, use in	A04-D04A2	polymer use in	
oligomer-/telomerisation	E11-F01	PVC, use in	A04-E02E1	production of	
addition of CO(2)	E11-F02	silicone polymer, use in	A06-A00E2	Chitin	B04-C02E3 B04-C02E3 C04-C02E3
other chain extension	E11-F03	Chemical etching of metal		Chitosan	A10-E09 B04-C02E3
contraction	E11-G02	chemical processes	M14-A02	Chlor-alkali cells	A12-E09 J03-B04
Chain (polymer)		etching media, liquid or		Chloramphenicol	B02-C01
couplers	A02-B	gaseous	M14-A03	Chlorella	B04-F08 C04-F08
stoppers	A02-C	Chemical features in		Chlorinated polyethylene	A10-E04A
transfer agents	A02-B	spinning of synthetic		Chlorinated/ chlorination of polymers	A10-E04A
Chain making	M21-L	filaments	F01-D+	Chlorine catalysts	N04-D+
Chairs	A12-D1	Chemical modification of		Chlorine or derivatives - see	
Chaperones/chaperonins	B04-N09 C04-N09	drying oils	G02-B03	Halogen or derivatives	
		fats and oils	D10-B02	Chloro - see also Halo, Monochloro and Polychloro	
Charcoal	B05-C06 E31-N+	natural resin	G02-B01	Chloroalkylated/ chloroalkylation of polymers	A10-E03
		polymers - (see also Modification)	A10-E+	Chloromethyl styrene	E10-H02G
Charge carrier generators, electrophotographic		Chemical mowing	B12-P02	(co)polymers	A04-C
inorganic	G06-F07+	Chemical plating of metal	M13-B	monomer	A01-D02
organic	G06-F06	Chemical preservation of corpses	D09-A01 D09-A03	Chloromethylated/ chloromethylation of polymers	A10-E03
Charged particle counters	K08-A02	Chemical processes (general)	B11-C01 E11-K	Chloroprene	E10-H02J
Charge transfer process, electrophotographic	G06-G08D	Chemical removers for paint and ink	G02-A03C	(co)polymer	A04-B08
Charge transport materials, electrophotographic		Chemical sensitisers, photographic	G06-H01	monomer	A01-C04
inorganic	G06-F07+	Chemical treatment of :			
methine type	E25-B E25-B01	fabrics	F03-C+		
organic	G06-F06	natural fibrous material	F01-B+		
Charged couple devices	L04-E05F	polymer surfaces	A11-C04D		
Charging, electrophotographic	G06-G07	Chemical vapour deposition of ceramics	M13-E L02-A02B		
Cheese	D03-B06 D03-B06 D03-B04 D03-B04 D03-B03 D03-B03 D03-B05 D03-B05	Chemical warfare agents, protection against	K02-A01	Chlorosulphonated polymers - see Halosulphonated polymers	
additive		Chemiluminescence	G04-A	Chlorotrifluoro- ethylene	E10-H02B
moulding		Chemiluminescence tests	B11-C07B4	(co)polymers	A04-E10D A01-D12
packing and transporting		Chemiluminescent tracer bound to antibody or antigen	B11-C07A5	Chlortetracycline	B02-T
Cheese dyeing of fibres/ fabrics	F03-F29	Chemoprotectant	B14-M02A C14-M02A	Chocolate	D03-E07
Chelate resins (see also Ion- exchange)	A12-M05	Chemotherapy	B14-S25 C14-S25	Chocolate Candy	D03-E10+ D03-E10B1 D03-E10A
Chelating agent	A08-A07			chewy candy	
in detergents	D11-B06			hard candy	
to purify liquids	J01-D05			Cholagogue active	B12-G02
Chemical analysis of polymers	A09-B				

Cholecystokinin (CCK-PZ)	B04-J13 C04-J13	Chrysene	B08-C01 E08-C01	Clay	
Cholecystopathy treatment	B12-G02	Chymotrypsin	B04-B02C3 B04-L05C C04-L05C	expanded, preparation of detergent use	L02-B05 D11-B11 D11-B11A
Cholera treatment	B12-A01			heavy, products non-expanded, preparation of	L02-G02
Choleretic	B12-G02	Cicatrizant	B12-A07		L02-B06
Cholestane	B01-D02	Cigarettes		Clay bound to enzyme	D05-A01A5
Cholesteric/ cholesterylic (liquid crystal property of polymer)	A09-A02A	filters for	A12-H04 D07-D F04-E05	Clay fillers	A08-R06B G01-A10
Cholesterol	B01-D02 B01-D02 C01-D02	tobacco substitutes in	A12-W	Cleaning apparatus for semiconductor devices	L04-C09C
reduction of blood levels	B12-H03	Cinchona alkaloid	B04-A02	Cleaning compositions (see also Detergents)	A12-W12+ G04-B08
Cholinergic	B12-E05 B14-J02A1 C14-J02A1	Cine sound tracks	G06-D	for semiconductor manufacture	L04-C09A
Chondroitin	B04-C02E2 B04-C02E2 C04-C02E2	Cinerin	B04-A07C	Cleaning electrophotographic materials	G06-G08E
Chopped meat	D02-A03B	Cinnamic acid (co)polymers monomer	E10-C04C A04-C A01-D02	Cleaning heat exchangers	J08-E+ J08-E01 J08-E03 J08-E02
Chopping up waste for fermentation	D05-A04B	Cinnoline	B06-D06 E06-D06	appliance details processes	
Chorionic gonadotropin	B04-B02D4	Circuit components (electrical), polymer use	A12-E07+	Cleaning metals	M12-A+ M12-A04 M11-H01 M12-A+
Chromate coating of metal	M14-D03	Circuitry, basic electronic	L03-H02	apparatus for electrolytic with solution or molten salt	
Chromatography		Circuits		Cleaning of polymer handling/ processing plant	A11-C
GC-MS	J04-B01C5A	(electro)photographic production of integrated	G06-D06A A12-E07C	Cleaning of semiconductor devices	L04-C09B
LC-MS	J04-B01C6	printed	A12-E07A L03-H04E+	Cleaning of semiconductor apparatus	L04-D11
in gas phase	J01-E03A	printed, ceramic substrate for	L03-H04E5 L03-H04E3	Cleaning of teeth or mouth	D08-B08
in liquid phase	J01-D01A J04-B01C2 A12-L04A J04-B01C1	printed, electroplating of printed, plastics substrate for	L03-H04E1	Cleaning polymerisation apparatus	A10-G
polymer application thin layer		printed, reprographic methods of	L03-H04E2 L03-H04E4	Cleaning printing plates	G05-F
Chromatography tests	B11-C08D2 J04-B01C	printed, thick film		Cleaning solutions/salt mixtures for metals disposal/regeneration inhibitors	M12-A01 M12-A03 M12-A02
Chromising		Circulatory active general and other	B14-F02 C14-F02	Cloches	A12-W04A
using gas	M13-D03B			Clocks	A12-W
using solid	M13-D01B	Circulatory diseases		Closures for containers	A12-P03 B11-C06A A12-P03
Chromium		diagnosis	B12-K04A2 B12-K04G2B C12-K04A2 C12-K04G2B	packages	
alloys	M26-B13	treatment	B12-E01	Cloth, polymer coatings on	A12-B02+
electrodeposition	M11-A01	Cirrhosis treatment	B12-E08 B12-G08	Clothes making	F04-F01
Chromium catalysts	N03-D N03-D N03-D01	Cisterns	A12-R02	Clothing	A12-C+ F04-C+ D11-D07C1 D11-D07C2 A12-C03 F04-C04 A12-C01 A12-C04 F04-C05 D09-C04D K07-A A12-C02 A12-F01
for polymerisation	A02-A06+	Citrates plasticisers/extenders	A08-P06	colour care fabric softener/ detergent fasteners	
Chromium compounds	B05-A03B E35-P	Citric acid	B10-C02 E10-C02A	foam backed footwear	A12-C01 A12-C04 F04-C05 D09-C04D K07-A A12-C02 A12-F01
inorganic	E05-L03 E05-L03A E05-L03A	Civil engineering	A12-R+ A04-G02E4 A04-E02E1 A12-R09	protective protective, against radiation safety sports	
organic	G01-A07 G01-A07	polyethylene, use in PVC, use in road compositions unsaturated polyester, use in	A05-D02E1	Clotting factors	B04-B04D3
pigment/filler		CJD treatment	B14-N16B C14-N16B		
pigments or fillers		Cladding of or with metal	M13-H01		
Chromium oxide polymerisation catalyst	A02-A06A	Clamps	A12-H12		
Chromium production	M25-G10	Clavulinic acid and derivatives	B02-C01 B06-E03		
Chromogenic compounds for heat sensitive systems	G06-F08A				
Chromophorotropic hormone	B04-B02D4				
Chromosomal abnormality disorder	B14-S20A C14-S20A				
Chrysanthemum acid (or derivatives)	B04-A07C				

Cloud point depressants (fuels)	H06-D05	containing polymer (general), solvent based	A12-B01B	non-metallic layer (electrically)	M11-F
Cloxacillin	B02-P03	containing polymer (general), water-based (emulsion)	A12-B01A	oxide layer	M14-D01
Clubs (sports equipment)	A12-F01B	corrosion resistant for metals	G02-A05E	phosphate layer	M14-D02
Clusters	F01-E09A	fireproof	A12-B08	plastics	A12-B04+
Clutch material	A12-H10		G02-A05D	plastics, non-electrically	M13-H05
CMC	A03-A04+ B04-C02A2	for concrete	G02-A05F	refractory coating (non-electrically)	M13-H04
use	A03-A04A+	for electrical material other than wires	G02-A05B	Coating optical glass components	L01-G04D
use - food, medical, cosmetic	A03-A04A1	for magnetic material for masonry	G02-A05B A12-B03+ G02-A05F	fibres	L01-F03A1
CNS		for paper	G02-A05C	Coating polymer surface with metals (by metallisation)	A11-C04B1
disorder diagnosis	B12-K04A5	for road paints	G02-A05F	non-metals	A11-C04B2
sedatives	B12-C05 B12-C08	for traffic sign paints	G02-A05F	polymers	A11-B05+
CNS active depressants general	B12-C05 B14-J01B C12-C05 C14-J01B	for walls	A12-E02+ G02-A05F	Coating processes, photographic	G06-E04
general	B14-J01 C14-J01	for wires	G02-A05A	Coating processes, with polymer:	A11-B05+
stimulants general	B12-C06 B14-J01A C12-C06 C14-J01A	non-stick	G02-A05D	by dipping	A11-B05A
		release coatings	G02-A05D	by extrusion	A11-B05B2
		Coating concrete	L02-D14+	by flocking	A11-B05B
		Coating fabrics	F03-E01	by spraying	A11-B05B1
		Coating from a liquid metal bath	M13-A	by spinning	A11-B05B3
Co-ordination complex catalysts not CO, not pi	N05-C	Coating from a solution or suspension of metal compound	M13-B	involving electrodeposition	A11-B05A
Coagulants	B12-H04 B14-F08 C12-H04 C14-F08	Coating glass bottles	L01-G04+ L01-G04A	involving fluidised beds	A11-B05A
Coagulants for :		sheet with inorganic materials	L01-G04C	with condensants (followed by polymerisation)	A11-B05C
blood	B12-H04	sheet with metallic materials	L01-G04C1	with dispersions	A11-B05D
pollution control	A12-W11E	sheet with organic materials	L01-G04B	with foams	A11-B05E
sewage	D04-A01B D04-B09	tableware	L01-G04E	with melts	A11-B05E
Coagulants, polymer use		Coating of metal (processes) by :		with monomers (followed by polymerisation)	A11-B05C
acrylic	A12-M01	cladding	M13-H01	with pastes	A11-B05D
others	A12-M02	diffusion using gases	M13-D03	with powders	A11-B05E
Coagulation of liquids	J01-D03	diffusion using liquids	M13-D02	with solutions	A11-B05D
Coagulative spinning	F01-C04	diffusion using solids	M13-D01	Coating with crosslinking	A11-C02C
Coal additives	H09-H03	electrophoresis (general)	M11-G	Coating with metal by :	
Coal dust		electrostatic method	M13-H06	cladding	M13-H01
coatings on	A12-B09	gas decomposition/reduction	M13-E+	diffusion	M13-D+
laying compositions	G04-B	gas decomposition/reduction to form inorganic coating	M13-E02	electrostatic method	M13-H06
Coal hydrogenation, liquefaction	H09-A01+	gas decomposition/reduction to form metallic coating	M13-E01	non-electrolytic method (general)	M13-H+
Coal removal from water	D04-B03	non-electrolytic method (general)	M13-H+	non-electrolytic method - control and testing	M13-L
Coal slurries		non-electrolytic method - control and testing	M13-L	sintering	M13-H02
coal slurries	A12-T03A H09-G+	sintering	M13-H02	spraying	M13-C
Coal tar plasticisers	A08-P08	spraying	M13-C	using adhesive	M13-H03
Coal, briquettes and briquetting	H09-F	to form organic coating	M13-E03	Coatings	
Coated foods	D03-H01S	using adhesives	M13-H03	antifouling	G02-A05G
Coating aids, photographic	G06-H18	vapour deposition	M13-F	anti-graffiti	G02-A05J
Coating ceramic		Coating of metal by:		corrosion resistant	G02-A05E
on metal	L02-J01D	post-treatment	M13-D04	fire proof	G02-A05D
with metal	L02-J01A	Coating of metal with :		for concrete	G02-A05F
Coating compositions - see also Paints		ceramic	L02-J01D	for glass (excluding glass fiber)	G02-A05F
as primers	G02-A05E	chromate layer	M14-D03	for magnetic recording material	G02-A05B1
containing polymer (general)	A12-B+	non-metallic layer (by surface reaction - general)	M14-D+	for optical fiber	G02-A05H
				for paper	G02-A05C
				for wire	G05-A05A
				general addition polymer based	A12-B01W
				general condensation polymer based	A12-B01X
				non-stick	G02-A05D
				release	G02-A05D
				Coatings and impregnations (polymer use)	A12-B+

Coatings of polymers	A12-B+	NAD	B14-D04	Colitis treatment	B12-E08
Coatings,		NADH	C14-D04		B12-G02
friction and oil-free lubricants	M13-K		B14-D04		B14-E10C
post treatment	M13-G05		C14-D04		C12-E08
wear resistant	M13-M02	Coenzymes	B04-B02C1		C12-G02
Coatings, sprayable refractory	L02-E05		B04-L02		C14-E10C
Coatings, use of following			C04-B02C1	Collagen	A03-C01
polymers in			C04-L02		B04-B04A6
(meth)acrylamide		by fermentation	D05-C03A		B04-N02
(co)polymer	A04-D04A1	Coextrusion	A11-B07+		C04-B04A6
(meth)acrylate (co)polymer	A04-F06E7	laminating of films	A11-B07A		C04-N02
(meth)acrylic acid			A12-S06C+	Collagenase	B04-B02C3
(co)polymer	A04-F04B	Coffee	D03-D01		B04-L05C
(meth)acrylic anhydride		bags	D03-D01A		C04-B02C3
(co)polymer	A04-F04B	bean treatment	D03-D01		C04-L05C
epoxy resins	A05-A01E4		D03-J02	Collapsible containers	A12-P06C
phenol-formaldehyde resin	A05-C03A	substitutes	D03-D03A	Colloid	B12-M07
phenolic resins	A05-C01B1	Coffins	A12-W		C12-M07
polyethylene	A04-G02E1	Cognitive enhancer	B14-J01A4	chemistry	J04-A03
polyurethane	A05-G01E1		C14-J01A4	protective (polymer	
PVA	A10-E09B1			additive)	A08-S06
PVC	A04-E02E2	Coils		pharmaceutical form	B12-M11V
saturated polyesters	A05-E01D1	electrical	A12-E08B		C12-M11V
silicone resins	A06-A00E1		L03-B02F	transfer material for	
Coats (apparel) of fabric	A12-C	magnetic	A12-E08B	photosensitive systems	G06-C11
	F04-C03	of fibres	F01-H03D	Colloxylin	A03-A03
Cobalamin and derivatives	B15-B12	Coining (powder metallurgy)	M22-H03E	Colon disease treatment	B14-E10C
	C15-B12	Coke (petroleum)	H08-E02		C14-E10C
Cobalt based alloys	M26-B08	Coke ovens	H09-A02	Colony stimulating factors	
magnetic	L03-B02A4		M24-A01B	G-CFS	B04-H04A
Cobalt catalysts	N02-B	Coke, coking (coal)	H09-A		C04-H04A
element	N02-B01	Coking process (petroleum		general and other	B04-H04
oxide	N02-B01	feedstock)	H04-B01		C04-H04
Cobalt compounds	B05-A03B	Cold (common) treatment		GM-CFS	B04-H04C
	C05-A03B	adrenergic	B12-E07		C04-H04C
inorganic	E35-V		C12-E07	M-CSF	B04-H04B
inorganic pigment	G01-A13	analgesic	B12-D01		C04-H04B
organic	E05-L02		C12-D01	MEG-CSF	B04-H04D
	E05-L02B	antifebrile	B12-D08		C04-H04D
Cobalt electrodeposition	M11-A02		C12-D08	Colophony	A03-C02
Cobalt naphthenate accelerator		antiviral	B12-A06	Colorant	
for ethylenically			C12-A06	for food (natural)	D03-H01E1
unsaturated polymers	A08-C03	bronchodilator	B12-K02	for food (synthetic)	D03-H01E2
for other polymers	A08-D05		C12-K02	Colorimetric tests	B11-C07B1
Cobalt production	M25-G11	expectorant	B12-K05		C11-C07B1
			C12-K05		
Cocaine	B04-A01	unspecified mode of		Colour additive system for	
	C04-A01	action	B14-A02B3	photography	G06-C13
Cocciidiostat	B12-B05		C14-A02B3	Colour bleaching	
	B14-A03C	Cold exchangers	J07-D03	(photographic)	G06-G11
	C12-B05	Cold forming of polymers	A11-B08	Colour care	D11-D07C1
	C14-A03C	Cold sore	B14-A02A3	Colour coupler	E26
Cocoa	D03-E		C14-A02A3	photographic	G06-H08
Cocondensation	A10-D+		B14-N17H	photosensitive system	
Cocoon handling to obtain			C14-N17H	containing	G06-C01
silk, mechanical	F01-A01	Cold working of		Colour formers for heat	
Cod liver oil	B04-B01C2	cast iron alloys	M27-B03	sensitive systems	G06-F08A
	C04-B01C2	ferrous metal	M24-D01B	Colour materials for	
		iron alloys	M27-B	photosensitive system	
Codeine	B04-A04	non-ferrous metal or		containing coupler	G06-C01
	C04-A04	alloys	M29-B	dye destruction	G06-C03
Coenzyme inhibitors	B14-D04	steel alloys	M27-B04	electrophotographic	G06-C04
	C14-D04			Kodachrome ® type	G06-C02
FAD	B14-D04	Colistin	B02-C	Colour proofing (printing)	G05-C
	C14-D04		C02-C		

Colour receptiveness of polymers		Complex quaternary and ternary AlIII-BV compounds	L04-A02D	testing	L02-D08
additives to improve inherent property	A08-M01A A09-A06	Complexing agents adding to water	D04-A03	Concrete additives	L02-D14
Colour tracer bound to antibody or antigen	B11-C07A2 C11-C07A2	additive for polymers in detergents	A08-A07 D11-B06	antifoaming	L02-D14S
		to purify liquids	J01-D05	fabric for reinforcing	F03-D04
Colour, photographic development	G06-G10	Complexing with organic reagents, non-ferrous metal extraction	M25-B04	frost resistance	L02-D14C
fixing	G06-G12	Composite inorganic pigment	G01-C	plasticising and fluidising polymeric	L02-D14E L02-R01A L02-D14F
stabilisation	G06-G13	Composite materials (powder metallurgy)	M22-H03F	set accelerators/ retarders	L02-D14A
Coloured layers on metals (chemically)	M14-C	Composite rolls for rolling mills, manufacture of	M21-A02A	strengthening	L02-D14B
Colouring glass surfaces	L01-G05	Composite-reinforced materials containing fibres	F03-D+	water permeability retarding	L02-D14Q
Colouring of polymers	A11-A01	Compost	B04-A07D B04-A09 C04-A07D C04-A09	water reducing	L02-D14D
Colouring oxides for glass compositions	L01-A03B	Compounding polymers	A11-A03+	Concrete manufacture	
Colouring, processes	A11-A01B	Compression moulding	A11-B11	decorative coating	L02-D14P
Colouring, using specific compositions	A11-A01A	Compression type refrigeration	J07-A01	polymeric coating	A12-B08 L02-D14M
Colours, ceramic	L02-G04	Computational genomics	B11-C08F1 C11-C08F1 B11-C11C1 C11-C11C1	Condensant (for polymer)	A01-E+
Columbium - see Niobium		Computational proteomics	B11-C08F3 C11-C08F3 B11-C11C2 C11-C11C2	Condensant, polymerising coating process with	A11-B05C
Coma treatment	B12-D10 B14-J01A2 C12-D10 C14-J01A2	Computer ribbons, fabric	F02-E02	Condensation of vapour	J01-A03
Combing, yarn processes	F01-F01	Computerisation in polymer processing	A09-D+	Condensation polymerisation	A10-D+
Combinatorial process	B11-C01A C11-C01A E11-K01 B11-C01A1 C11-C01A1	Computers (use of electro (in)organic material)	L03-H03A	Condensation polymers only blends/mixtures	A07-A03+
library synthesis	B11-C01A2 C11-C01A2	Computing methods	B11-C11 C11-C11	Condensation polymers stabilisers	A08-A01B
Liquid phase synthesis	B11-C01A3 C11-C01A3	Concentration of ferrous ores	M24-A01	Condensation resin coatings on metal	A12-B04C
Solid phase synthesis	B11-C01A4 C11-C01A4	food	D03-K09	Condensers for vapour or steam	J08-A
Parallel synthesis	B11-C01A5 C11-C01A5	non-ferrous ores	M25-A01	Condensers, electrical	A12-E07B L03-B03
High volume synthesis		non-ferrous ores, dry methods	M25-A01A	Conditioners for fabrics	D11-B15 F03-C05
Combinatorial apparatus	B11-C01B C11-C01B E11-K02	non-ferrous ores, wet methods	M25-A01B	Conditioning fibres, yarns with heat	F01-H05
Comminuting waste for fermentation	D05-A04B	polymers	A10-G01+	Conditioning polymer	A11-B02+
Comminution of polymers	A11-A04	Concrete	L02-D	Condoms	A12-V03B B12-K03 C12-K03 C14-P01A
Communications (use of electro(in)organic material)	L03-H03	autoclaves	L02-D04	Conductive (electrical), additives for polymers	A08-M09A
Commutators	L03-B04C	binders (special)	L02-D07	Conductive alloy compositions	L03-A01A5
Compact discs	A12-L03C	coating compositions for coatings	G02-A05F L02-D14	Conductive coatings on windows	L01-H02
Complement factor	B04-H01	coatings, polymeric	A12-B08	Conductive films for LCD	L03-G05B9
Complement inhibitor	B12-D02C B14-G02 C12-D02C C14-G02	decorating fillers (special)	L02-A07 L02-D06	Conductive layers manufacture in semiconductor manufacture	L04-C10
Complex catalyst		glazing	L02-A07	Conductive nanomaterials	L03-A02G
carbon monoxide containing	N05-B	gypsum products	L02-D07A	Conductive pastes, inks printed circuits	L03-A01A3 L03-H04E4
carbonyl containing	N05-B	heavy	L02-D02	Conductive polymer (electrical)	A09-A03 L03-A02D
other co-ordination	N05-C	light	L02-D03	Conductivity monitoring	J04-C02B
pi-bonded	N05-B	polymers in prefabricated	A12-R01A L02-D04	Conductors, electrical	L03-A
Ziegler(-Natta) catalysts	A02-A06+	prestressed and reinforced production equipment	L02-D05 L02-D02 L02-D07B	metallic	L03-A01
		resin		metallic, insulated	L03-A01B
				metallic, non-insulated	L03-A01A
				non-metallic	L03-A02
				non-metallic, non-insulated	L03-A02A
				Confectionery coating	D03-E D03-E02

cooking and mixing ingredients	D03-E05	Contraceptives	B12-K03	furnace charge	J09-B03
dispensers	D03-E06		B14-P01	hot blast	M24-A05E1
packing	D03-E04		C12-K03	in polymer processing	A11-A02C
shaping	D03-E03	condoms, IUD, sheaths etc.	C14-P01	spun fibres	F01-C
transporting	D03-E01	creams, pills etc.	A12-V03B	towers	A12-W11G
Conferring herbicide resistance to plants	C14-U03	female	A12-V01	Coordination catalysts for polymerisation	A02-A06+
Conferring pest resistance to plants	C14-U04	male	B14-P01B	Cop dyeing	F03-F29
Conferring stress tolerance to plants	C14-U05		C14-P01B	Cop handling in winding of fibres	F01-H03C
Conifers	B04-A08C1	Control devices for polymer processing equipment	A09-D+	Copals	A03-C02
	C04-A08C1	gas or liquid storage	J08-B08	Copolymerisation	A10-B+
Conjugate fibres	A12-S05B	sewing machines	F02-F01B1		A10-C+
crimped	F01-E01+	Control gear engineering nuclear applications	K09-L	block	A10-C02
Conjugated aliphatic diolefinic monomers	F01-E01A	Control of neutron flux in reactors	K05-B06A	general	A10-B01
substituted	A01-C04	Control of nuclear reactors	K05-B06	graft	A10-C03+
unsubstituted	A01-C05	Control rods (nuclear reactor)	K05-B06A	ordered	A10-C+
Connectors, (for pipes)	A12-H02C	Control, heat treatment (ferrous)	M24-D07	Copper	
Conserve	D03-H01V	Controlled fusion reactors	K05-A03	alloy conductive tracks on semiconductors	L04-C10D
Conserving foodstuffs with sugar	D03-H02D	Controlled release	B12-M10	alloys	M26-B03
Consolidation of incompetent formation	H01-C09		C12-M10	electrodeposition	M11-A03
Consolidation, earth	A12-A02	Controlling insects	A12-W15	removal from waste water	D04-B05
Constipation treatment	B12-J07	Conventional weaving	D09-B06		D04-B05B
	B14-E09	Conversion coating of metal	F02-A04A	Copper catalysts	N02-D
	C12-J07	chromating	M14-D	element	N02-D01
	C14-E09	oxide coating	M14-D03	oxide	N02-D01
Construction industry	A12-R+	phosphating	M14-D02	sulphide	N02-D01
Construction material, polymer foam use in	A12-S04B	Conversion of chemical element	K08-B	Copper compounds	B05-A03A3
Contact adhesives	A12-A+	Conversion of polymer into small particles	A11-A04		C05-A03A3
	G03-B+	Conversion screens for X-ray material	G06-A09	inorganic	E35-A
Contact breakers	L03-B04B	Converter processing of fibres	F01-G03	inorganic pigment	G01-A13
Contact igniters, chemical	K04-B02	Converter, steel processing	M24-B02C	organic	E05-L03
Contact lens cleaners	D11-C01	Conveying of polymer articles	A11-C06		E05-L03B
	D11-D01C	Conveyor belts	A12-H01	Copper compounds as antiseptic, fungicidal or animal repellent in polymers	A08-M02
Contact lenses	A12-V02A		F04-E07	Copper production	M25-G08
	D09-C01A	Convulsants	B12-D10	Cops for fibres	F01-H03A
Contacts, electrical	L03-A01		B14-J06	Copying material	
alloy	L03-A01A2		C12-D10	non-radiation sensitive	G05-E
alloy, other	L03-A01A1		C14-J06	pressure sensitive	A12-D05A
alloy, silver	L04-C11	Cookies	D01-B02C		G05-D
for semiconductors	L03-A01A4	Cooking food	D03-K01	Cords	F04-A
sliding		fryer	D03-K01B	in packaging	A12-P07
Containers		grill	D03-K01C	in tyres	A12-T01C
foam use in	A12-S04C	microwave	D03-K01A		F04-E01
for bakery or dough product	D01-A04	Cooking utensils	A12-D03	Cords, tyre	A08-R+
for food	D03-K08	Coolants	A12-W11G	polymeric	F04-E01
for pharmaceutical and agricultural compositions	B11-C06		G04-B01	Core binding	A12-T01C
	C11-C06	Coolants for nuclear reactors	K05-B03	Core boxes for patterns	A12-A02
general, polymer use in	A12-P01B	liquid metal	K05-B03A	Core compositions	M22-C02
glass, filling of	L01-J03	Coolers, trickle	J08-B01	Core making	M22-A01
polymer use in	A12-P+	Cooling		Core material, refractory	M22-E
Continuous casting	M22-G03A	apparatus	J07-C	Core material, refractory	L02-E06
cooling	M22-G03A3	apparatus, iron and steel production	M24-A05B	Core moulds	A12-A02
moulds	M22-G03A1			Core production and design	M22-D
withdrawal equipment	M22-G03A2			Core, sheath manufacture for optical glass fibres	L01-F03F1
				Core-sheath fibres	A12-S05B
				yarns	F01-E01+
					F01-E

Cores, chill casting	M22-G03C1	Cortisones	B01-C01 C01-C01	Covering power increasing agents (photographic)	G06-H04
Cores, foundry	A12-A02	Cosmetics	A12-V04+ B12-L02 B14-R01 C12-L02 C14-R01 D08-B	Crackers (bakery products)	D01-B02C
Cores, magnetic	L03-B06			Cracking catalysts	H04-F02B
Cores, other than for foundry casting	M22-G03G3			Cracking process products, monomeric	A01-B04
Coring (oil and gas wells)	H01-B05B			Cracking processes	A10-E05+ B11-C01 C11-C01 E11-G02 H04-B
Coring fruit	D03-J06	Cosmetics, polymers used in (meth)acrylate (co)polymer	A04-F06E5		
Corona discharging polymer surfaces	A11-C04E	cellulose ether	A03-A04A1	Cramp treatment	B12-E02 B14-J05A C12-E02 C14-J05A
Coronary dilators	B12-F02 B14-F01E C12-F02 C14-F01E	polyamides	A05-F01E3		
Coronary thrombosis treatment	B12-H02 B14-F04 C12-H02 C14-F04	polyethylene	A04-G02E3		
		polypropylene	A04-G03E1		
		PVA	A10-E09B2		
		silicones	A06-A00E3		
		Cosmic radiation utilisation	K08-C	Crash pads in vehicles	A12-T04B
		Cosmids	B04-E08 C04-E08	Crates	A12-P06B
Corpse preservation chemical	D09-A01 D09-A03 D09-A02	Cosmonautics	A12-T03+	Crayons	A12-D05B G02-A04+
physical		Cot death	B14-S10	Cream	D03-B13
Corrin dyes (general)	E23	Cotton	A03-A05A	artificial (synthetic)	D03-B13
Corrosion control and testing	M14-J	Cotton dyeing/printing solvent dyeing	F03-F03 F03-F13A	Cream (milk)	D03-B
Corrosion control in petroleum refineries	H05-X	Cotton fibre filler for polymer	A08-R07	Creams (formulation)	B12-M02 C12-M02 D08-B09
Corrosion inhibitors	M14-F	Cotton seed oil	B04-B01C1 C04-B01C1		
as lubricant additives	H07-G02			Crease proofing of fabrics non-resinous	A12-S05R F03-C04
coatings	G02-A05E	Cough treatment	B12-K01 B14-K01B C12-K01 C14-K01B	resinous	A12-G02 F03-C04
fuel additives	H06-D02				
inorganic	M14-F02	Coulometers	L03-G03	Credit cards	A12-D
organic	M14-F01	Coumarin photographic brighteners	G06-H09C	with magnetic recording strips	L03-B05H
Corrosion prevention		Coumarone	E06-A01	Crepe fabrics	F02-G02
in heat exchangers	J08-D02	(co)polymers	A04-C	Cresol-formaldehyde resins	A05-C03+
in metallurgy	M14-K	monomer	A01-D02	Cresols	E10-E02B E10-E02B1 E10-E02E E10-E02E1 A01-E13
in water systems	D04-A03	Coumarone-indene resins	A04-C		
with polymers	A12-W11J	Counter for neutrons	K08-A01	condensants	
Corrosion resistant coatings for metals	G02-A05E M14-K	for neutrons	K08-A02	Creutzfeld-Jakob disease treatment	B14-N16B C14-N16B
		for charged particles	K08-A02		
		for gamma and cosmic rays	K08-A03		
		for X-rays	K08-A04		
Corrugated cardboard (structure)	F05-A06A	Coupler containing colour photosensitive systems	G06-C01	Cricket	
Corrugating cardboard	F05-A04D			balls, bats	A12-F01B
paper	F05-A04D	Couplers for heat sensitive systems	G06-F08A	itches	A12-F01A
polymers	A11-B08+				
sheet metal	M21-E01	Couplers, for		Crimped fibres	A12-S05C F01-E04 F01-E01A
Corticoidal	B12-G04 B14-D01 C12-G04 C14-D01	azo dyes	E26-A	conjugated	
		dyes (general)	E26	Crimping of fibres	A11-B02D F01-H04+ F01-H04C2
		oxidation dyes	E26-A	jet	
Corticosteroid receptors	B04-K01L3 C04-K01L3	Couplers, photographic	G06-H08+	CRISPR	B04-E13 C04-E13 D05-H19C
		keto-methylene based	G06-H08C		
Corticosteroidal	B14-D01 C14-D01	naphtholic based	G06-H08A		
		phenolic based	G06-H08A		
Corticotropic hormones	B04-B02D4 B04-J05 C04-B02D4 C04-J05	pyrazolone based	G06-H08B	Crockery	A12-D03
		pyrazolotriazole based	G06-H08D	Cross rolling of metal	M21-H
		Coupling agents		Crosslinking accelerators	A08-C03 A08-D+ A08-C02 A08-D+
Corticotropin-releasing hormone	B04-J06 C04-J06	for polymer additives	A08-M01+		
		for polymer chains	A02-B	activators	
Cortisols	B01-C02 C01-C02	Couplings, pipe	A12-H02C		
		Courts, sports	A12-F01A		

agents		Culture, media	D05-H01	ceramic oxide	L02-G08
agents for addition or ethylenically		agricultural	A12-W04B	cermet	L02-J01B
unsaturated polymers	A08-C+	microbiological	C12-N08	Cutting, electric arc	M23-D
agents for other polymers	A08-D+		D05-H01	electron beam	M23-D01
agents with epoxy resin	A05-A01B1	Culture, media		electroslag welding	M23-D04
anti-scorch agents	A08-C06	agricultural	C14-T01	induction heating	M23-D07
	A08-D+	Culturing bacteria	A12-W11L	laser beam	M23-D03
processes, general	A11-C02+		B11-A	plasma arc	M23-D05
retarders	A08-C06		C11-A	resistance welding	M23-D01
	A08-D+		D05-A	spark erosion	M23-D02
rubber vulcanisation	A11-C02A		D05-H		M23-D06
with coating and/or extrusion		Cumyl peroxide		Cutting, flame	M23-C
with irradiation	A11-C02C	crosslinker for addition		Cyanamides, inorganic	B05-C03
with moulding and/or foaming	A11-C02B	and ethylenically			C05-C03
	A11-C02D	unsaturated polymers	A08-C05		E32-B
Crotonates		crosslinker for other		Cyanates inorganic	E32-B
(co)polymers	A04-F07	polymers	A08-D	removal from water	D04-B07A
monomer	A01-D10	polymerisation catalyst	A02-A01	Cyanates organic	B10-A14
Crotonic acid	E10-C04	redox polymerisation			C10-A14
(co)polymers	A04-F05	catalyst	A02-A03		E10-A14
monomer	A01-D08	Cuprammonium rayon	A03-A05+		E10-A14A
			F01-D06B		E10-A14B
Crowns, dental	A12-V02B	Cupric, cuprous - see Copper		Cyanides inorganic	
	D08-A03			removal from water	D04-B07A
Crucible steel processing	M24-B02A	Cups	A12-D03	Cyanides, inorganic	B05-C03
Crucibles for glass manufacture	L01-C05	Curds and whey separation	D03-B02		C05-C03
		Curds production in milk	D03-B01		E32-B
Crude oil		Cure retarders for polymers	A08-C06	Cyanides, organic	B10-A15
drilling for	H01-B		A08-D+		C10-A15
exploration for	H01-A	Curing agents - see Crosslinking			E10-A15
production techniques	H01-D	Curing of concrete articles	L02-D04	Cyanine spectral sensitisers	
rotary drilling	H01-B03	Curing of polymers	A11-C02+	photographic	G06-H07A
slim hole drilling	H01-B02	Curium compounds	B05-A04	Cyanoacrolein	E10-A15
testing	H01-E03		C05-A04	Cyanoacrylamide	E10-A15
transfer of	H01-X01	inorganic	E35-R	Cyanoacrylates	E10-A15
Crushing	J02-B	organic	E05-Q	(co)polymers	A04-D
accessories	J02-B03	Curling of fibres and yarns	F01-H04+	monomer	A01-D04
plant	J02-B01	Curtain rails	A12-R02A		A01-D10
process	J02-B02	Curtains	A12-D01	Cyanoacrylic acid	E10-A15
Crustaceans	B04-P01C		F04-D03	(co)polymers	A04-D
	C04-P01C	Cutlery	A12-D03	monomer	A01-D04
Crustacicide	B14-B04	Cutting			A01-D08
	C14-B04	bakery products after		Cyanoacrylonitrile	E10-A15
Crystal forms	B12-M11H2	cooking	D01-A06	(co)polymers	A04-D
	C12-M11H2	ceramics	L02-A	monomer	A01-D04
Crystallisable glass		fabrics	F03-K03	Cyanogen	B05-C03
applications	L01-K03	fabrics for clothing	F04-F01		C05-C03
composition	L01-A08	food	D03-K05		E32-B
manufacture	L01-K02	glass		Cyanurate, triallyl	E07-D13
Crystallisation	A11-B02+	glass fibre, optical	L01-F03H	(co)polymers	A04-A03
	B11-B	glass, flat	L01-G07	monomer	A01-B03
	C11-B	glass, non-flat	L01-G08		
	E11-Q	plastics	A11-A05+	Cyanuric acid	E07-D13
	J01-B	polymers	A11-A05+		
Crystallisation, water		polymers, films, fabrics	A11-A05C	Cyclic ethers	
treatment by	D04-A01C	polymers, for scrap		(co)polymers	A05-H+
Crystals, liquid	A12-L03B	recovery	A11-C03A	condensants excluding	
	G04-B	polymers, into granules	A11-A04	epoxides	A01-E08
Crystals, single	J04-A04	polymers, recesses,		epoxides condensants	A01-E07
semiconductors	L04-B	grooves	A11-A05B	Cyclic peptides	B04-C01H
Culture apparatus (micro-biological)		polymers, tubes and tyres	A11-A05A		C04-C01H
		rocks	L02-A	Cyclic siloxanes condensants/	
Culture, cell or tissue	D05-H02	sliver to staple	F01-F	monomers	A01-A03
	D05-H08	threads in sewing	F02-F01B2	Cyclic thioethers	
		Cutting oils, emulsions	H08-D04	(co)polymers	A05-J05
		Cutting tools		condensants	A01-E08

Cyclisation (process)	B11-C01 C11-C01 N07-F07 E11-A01 E11-A01 A10-E14
catalyzed process	
chemical process	
reaction apparatus	
of polymer	
Cyclised polymer	A10-E14
Cycloaliphatic - see also	
Alicyclic	
Cycloaliphatic dicarboxylic acid(s)	
production	E10-C02C1A
use	E10-C02C2A
Cycloaliphatic epoxy resins	A05-A05
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
(co)polymers	A04-G
monomer	A01-D13
Cycloalkyne	B10-J01 C10-J01 E10-J01
(co)polymers	A04-A02
monomer	A01-B02
production	E10-J01A
use	E10-J01B
Cyclodextrin	A03-A B04-C02B1 C04-C02B1 D06-H02
Cyclohexane dimethanol	E10-E04J1
condensant	A01-E14
Cyclohexanone peroxide	
crosslinker for other	A08-D
polymers	
crosslinker for unsaturated	
/addition polymers	A08-C05
polymerisation catalyst	A02-A01
redox polymerisation	
catalyst	A02-A03
Cycloheximide	B02-C01 C02-C01
1,4-Cyclohexyl dimethanol	E10-E04J1
condensant	A01-E14
Cyclohexyl methacrylate	E10-G02
(co)polymers	A04-F06+
monomer	A01-D10B

Cyclone	J01-L02
Cyclopentadiene	E10-J02A E10-J02A1 E10-J02A2
(co)polymers	A04-B
monomer	A01-C05
Cyclosporin	B02-C01
Cylinders, glass, formation of	L01-F02
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
Data storage units	L03-H03A
Daunomycin	B02-D C02-D
Deactivators for	
polymerisation catalysts,	
controllers	A02-C
Deaerating boiler feed water	D04-A03B
Dealkylation (petroleum	
refining)	H04-E09
Deamination	E11-G07
Deasphalting (petroleum	
refining)	H04-A08
Deburring of plastics	
articles	A11-A05B
Decaffeinated or	
decaffeinating coffee	D03-D01B
Decaffeinated or	
decaffeinating tea	D03-D02B
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
metal	M24-D05
Decatising fabrics	F03-A02
Dechlorinated/dechlorination	A10-E04
Decongestant	B12-K05 B14-K01E C12-K05 C14-K01E
Decontamination	
(radioactivity)	K07-A03
Decorating	
ceramics or concrete	L02-A07
glass	L01-G09
refractories	L02-A07
textiles	F03-H
Decorative coatings on	
concrete	L02-D14P
Decorative laminates	
production	A11-B09B

Decorative laminates, board	A12-A04A	bonds (catalytic)	N07-C02	Dentistry preparations	D08-A
Decyclization		other than of carbon-carbon		Dentrifices	A12-V04B
catalytic	N07-F08	(C-C) bonds (catalytic)	N07-C03		B12-M02A
ring opening reaction process	E11-A02	Dehydrohalogenated/			C12-M02A
ring opening reaction		dehydrohalogenation of		Dentures	D08-B08A
apparatus	E11-A02	polymers	A10-E04		A12-V02B
Deep drawing		Dehydrohalogenation reaction	E11-G04		D08-A03
polymers	A11-B08+	Dehydroxylation	E11-G06	Deodorants	
sheet metal	M21-E03	Deicing compositions	G04-B05	air	D09-B
Deep-relief printing plates	G05-A02	Delay lines	L03-G01	body	B12-L01
Defectoscopy	G04-B09	Delayed release	B12-M10B		B14-R03
Deflashing of polymer			C12-M10B		C12-L01
(mouldings)	A11-A05B	Delivery of molten glass	L01-C04		C14-R03
Defoaming agents for		Delrin ®	A05-H02+	candles	D08-B09
detergents	D11-B08	Delustrants for polymers		devices	D09-B02
polymers	A08-S03	inorganic	A08-E02	polymer	D09-B01
Defoliants	B12-P02	organic	A08-E03C	textile treatment	A08-M04
	C12-P02	Demetallisation (petroleum		Deodorization	F03-C09
	C14-U01A	refining)	H04-A02	Deoiling (petroleum refining)	J01-E01B
Defrosting foodstuff	D03-K12	Demineralisation of water	D04-B07G	Deoxidising ferrous melts	H04-A09
Degassing		Demisting compositions	G04-B05	Deoxygenation of water	M24-C02
ferrous melts	M24-C	Demyelinating disease		Deoxyribonucleic acids	D04-A03B
liquids	J01-D02	treatment	B14-S01		B04-B04A1
non-ferrous melts	M25-F		C14-S01		B04-E01
polymers	A11-A	Dendrimer	B04-C03E	Deparaffination	C04-B04A1
solids	J01-G05		C04-C03E		C04-E01
Degradation of polymers	A10-E05+	Denitrification (petroleum		Dephosphorising ferrous melts	H04-A10A
	B11-C01	refining)	H04-A03		M24-C01
	C11-C01	Denitrification inhibitors	B12-N08	Depilatories	B12-L02
	E11-C		C12-N08		B14-R01
Degraded polymers	A10-E05+		C14-T01D		C12-L02
Degrading fibres to improve		Density control agents for			C14-R01
properties	F03-C08	explosives	K04-G		D08-B07
Degreasing compositions	G04-B08	Dental	A12-V	Depolymerisation, (process)	A10-E05+
Degreasing metals	M12-B01		B12-L03		B11-C01
Degutting fish	D02-A02		B14-N06	agents	C11-C01
Dehalogenated/			C12-L03	carbonisation	E11-C
dehalogenation of polymers	A10-E04		C14-N06	catalysts	A08-M08
Dehalogenation reaction	E11-G04	adhesives	D08-A	pyrolysis of polymer waste	A10-E05A
Dehalogenation (process)			D08-A02	to monomers/ oligomers	A10-E05C
for petroleum refining	H04-E14	cements	A12-V02B	Depolymerised polymers	A10-E05+
Dehumidification	J01-E01A	fillings	D08-A02	Deposit prevention in heat	
Dehydrating oil well effluent	H01-E01	floss	A12-V02B	exchangers	J08-D02
Dehydrating sludge from		instruments	D08-A01	Dermatitis treatment	B12-A07
waste water	D04-B10	porcelain	A12-V04B		B14-N17C
Dehydration	E11-G05	prostheses	D08-B08E		C12-A07
Dehydrogenase		strips	D08-A04		C14-N17C
agonists	B14-L01A1	cleaning device	L02-G03A	Derris extracts	B04-A07B
	C14-L01A1	Dental toilet requisites	A12-V04B		C04-A07B
inhibitors	B14-D05D		D08-B08	Desalination of brine or	
	C14-D05D	Dental use of specific		sea water	D04-B07F
Dehydrogenases	B04-L03D	polymer types		Desalting (crude oil)	H01-E01
	C04-L03D	(meth)acrylate		Descaling of metal	
Dehydrogenated/		(co)polymers	A04-F06E5	mechanical	M21-N
dehydrogenation of	A10-E11	cellulose ethers	A03-A04A1	pickling	M12-A
polymers	C11-C01	polyamides	A05-F01E3	pickling, apparatus	M12-A04
Dehydrogenation (process)	E11-E	polyethylene	A04-G02E3	pickling, disposal/	
	H04-E03	polypropylene	A04-G03E1	regeneration of	
for petroleum refining		PVA	A10-E09B2	solutions/salt mixtures	M12-A03
of carbon-carbon (C-C)	E11-E02	silicones	A06-A00E3	pickling, inhibitors	M12-A02
bonds				pickling, solutions/salts	
of carbon-carbon (C-C)				mixture	M12-A01

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 E05-R	Dialkylaminoalkyl (meth) acrylates (co)polymers monomer	E10-B02E A04-D09 A01-D07 A01-D10B
Designing knitted fabrics	F02-B01	organic		Diallyl amine (co)polymers monomer	E10-B04B A04-B A01-C04
Designing woven fabrics	F02-A02			Diallyl ethers (co)polymers monomer	E10-H01 A04-B A01-C04
Desizing of fabrics	F03-B			Diallyl fumarate (co)polymers monomer	E10-G02 A04-A03 A01-B03
Desoldering apparatus	M23-A03	Developer stabilisers (photographic)	G06-H03	Diallyl glycol carbonate	E10-A11B E10-A11B1 E10-A11B2
Desulphurising catalytic	N07-F11	Development (photographic) accelerators	G06-H12	(co)polymers monomer	A04-B09 A01-C01
Desulphurising ferrous melts	M24-C01	black and white silver halide	G06-G01	Diallyl maleate (co)polymers monomer	E10-G02 A04-A03 A01-B03
Desulphurising petroleum refining	H04-A01	colour nuclei	G06-G10 G06-A04	Diallyl phthalate (co)polymers monomer production	E10-G02 A04-B09 A01-C01 E10-G02A E10-G02A1 E10-G02F E10-G02F1
Desulphurising water	D04-B07D	of photosensitive resin systems	G06-G17 A12-L02F G06-H13	Dialysis in test	J01-C03B B11-C08D3 C11-C08D3 A12-W11A D04-A01D D04-A01E F04-E04
Detection, determination of catalysts	N06-D	polymer use in restrainers		Diamine, hexamethylene condensant	E10-B01E A01-E05
Detection, general	E11-Q J04-C K02-A04	Devices for animal body (use on or in)	B11-C04 C11-C04	Diamines - see also Polyamine	B10-B01 C10-B01 E10-B01 A01-E05
of NBC agents		Devices for drying food	D03-K09	condensants	E07-D13 A01-E01
see also compounds detected and detecting compounds		Devices for deodorising/sterilising	D09-B01	Diaminotriazines condensants	
Detectors electrical	A12-E13	Devolatilisation of polymers	A10-G01A	Diamond (production)	E31-N03A L02-F05
Detectors fire, smoke, burglar	A12-R02	Dewatering on papermaking machines	F05-A04B	Diamond abrasives	L02-F05
Detergents additives (non surface active)	D11-B	Dewatering sludge	D04-B10A	Diapers	A12-V03A D09-C F04-C01A
Detergents bleaches for fibres or fabrics use	D11-B01 A12-W12A	Dewaxing (petroleum refining)	H04-A10	from cellulose fibres, paper making pulp	F05-A07
Detergents formulation	D11-D	Dextrans	A03-A+ B04-C02C C04-C02C D06-H01	Diaphragms	B14-P01B C14-P01B B12-K03 C12-K03 A12-H07
Detergents fuel additives	H06-D03	Dextrins	A03-A+ B04-C02B C04-C02B D06-H	contraceptives	
Detergents granular laundry compositions	D11-D08	Diabetic dietary foods	D03-H01T5	Diarrhoea treatment	B12-J04 B14-E02 C12-J04 C14-E02
Detergents laundering textiles use	F03-J03	Diabetes treatment	B12-H05 B14-S04 C12-H05 C14-S04		
Detergents lubricant additives	H07-G03	Diabetes monitoring type II diabetes	J04-B01B1 B14-S04A C14-S04A		
Detergents petroleum products	H08-E05	Diacetone acrylamide (co)polymers monomer	A04-D04+ A01-D05 A01-D06		
Detergents polymer use	A12-W12+	Diacylate polymer paints	G02-A02C4		
Detergents production by sulphonation	D11-D05	Diagnosis	A12-V03C2 B12-K04 C12-K04		
Detergents special materials and methods	D11-D	Diagnosis of diseases in animals	B12-K04A C12-K04A B12-K04G C12-K04G		
Detergents special use of	D11-D01				
Detergents surface active, non-soap	D11-A				
Detergents thickeners	D11-B24				
Detergents testing	D11-D				
Detergents 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	Diethanolamine condensant	E10-B03B A01-E05 A01-E14
Diatomite	B04-D02 C04-D02	condensant	A01-E	Diethyl aluminium chloride catalyst	E05-B02 A02-A07+ N05-A
fillers	A08-R06A	Di(chloromethyl) oxacyclobutane (co)polymers monomer	E07-A03 A05-H A01-E08	Diethyl terephthalate condensant	E10-G02 A01-E11
Diazete	B07-D07 C07-D07 E07-D07	1,1-Dichloroethylene	E10-H02G E10-H03C3 E10-H04C3	Diethylene glycol condensant	E10-E04H1 A01-E14
Diazo compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B	(co)polymers homopolymer monomer	A04-E07 A04-E06 A01-D12	Diethylene triamine condensant	E10-B01E A01-E05
Diazo element (radiation sensitive system)	G06-F02	Di(chlorophenyl)sulphone condensant	E10-A10B A01-E	Diffusion apparatus for semiconductor processing	L04-D06
Diazo processing	G06-G09	Dicing semiconductor wafers	L04-C07E	Diffusion bonding	M23-E
Diazonium compounds	B10-A16 C10-A16 E10-A16 E10-A16A E10-A16B E21-E	Dicotyledons	B04-A08C2 C04-A08C2	Diffusion coating metal using gas	M13-D M13-D03
Dibenz(b,f)azepine	B06-D12 C06-D12 E06-D12	Dicumyl peroxide catalyst for polymerisation crosslinker for addition polymers	E10-A04 A02-A01 A08-C05	Diffusion coating metal using liquid	M13-D02
Dibenzazepine (excluding dibenz (b,f)azepine)	B06-D13 C06-D13 E06-D13	crosslinker for other polymer	A08-D	Diffusion coating metal using solid	M13-D01
Dibenzocycloheptane	B08-D01 C08-D01 E08-D01	redox catalyst for polymerisation	A02-A03	Diffusion doping of semiconductor layers	L03-C02D
Dibenzodiazepine	B06-D16 C06-D16 E06-D16	Dicyandiamide condensant	E10-A15 A01-E03	Diffusion transfer photographic systems multicolour	G06-C09+ G06-C10+
Dibenzodiazocine	B06-D16 C06-D16 E06-D16	Dicyandiamide-formaldehyde resin	A05-B	Digested material treatment before paper formation	F05-A03
Dibenzofuran	B06-A03 C06-A03 E06-A03	Dicyclopentadiene (co)polymers monomer	E09-D02 A04-B A01-C05	Digesting pretreatment in papermaking	F05-A02A
Dibenzopyran	B06-A03 C06-A03 E06-A03	Dicyclopentadiene dioxide	A05-A05 E06-A03	Diglycidyl carboxylates	A05-A04 E07-A03
Dibenzothiophene	B06-B02 C06-B02 E06-B02	Die plates for forming fibres	F01-C01	Diglycidyl derivatives of amines	A05-A04 E07-A03
Dibenzoyl peroxide for crosslinking addition polymers	E10-A04	Dielectric ceramic oxides	L03-B03	Diglycidyl ether of bisphenol A	A05-A02 E07-A03
for crosslinking other polymers	A08-C05	inorganic compositions material	L02-G07C L03-B03E L03-B03	polyisocyanate based polyoxazolidone	A05-A02 A05-J02
polymerisation catalyst	A08-D	organic compositions polymer properties	L03-B03F A09-A03	Dihaloamines (organic)	E10-A02
redox catalyst	A02-A01 A02-A03	Diene polymer coatings	A12-B01C G02-A02D1	Dihydric alcohols condensants	A01-E14
Dibutyl adipate plasticiser	E10-G02 A08-P04	Diene polymer polyol polyurethane	A05-G	Dihydric phenols condensants	A01-E13
(Di)butyl maleate (co)polymers monomer	E10-G02 A04-F07 A01-D10 A01-E12	Diene rubbers based adhesives/binders	A04-B+ A12-A05A G03-B02B	Dihydrofuran	B07-A01 C07-A01 E07-A01
Dicarboxylic acid - see Polycarboxylic acid		Dies		Dihydropyran	B07-A03 C07-A03 E07-A03
Dicarboxylic acid, aliphatic derived saturated polyesters	A05-E02	die casting dies forging, hammer and pressing dies	M22-G03D M21-J02	Dihydropyridine	B07-D04D C07-D04D E07-D04D
		metal casting dies metal drawing dies metal extrusion dies rolling dies	M22-G03G3 M21-B01B M21-B02C M21-A02	Dihydroxy benzophenone condensants	E10-E02D2 A01-E13
		Dietary fibre	D03-H01T1	Dihydroxy diphenyl ether	E10-E02D2
		Dietary foods e.g. diabetic, gluten free	D03-H01T5	Dihydroxy diphenyl ketone condensants	E10-E02D2 A01-E13
		Diesel fuel	H06-B04	Dihydroxy diphenyl methane condensants	E10-E02D4 A01-E13

Dihydroxy diphenyl propane condensants	E10-E02D4 A01-E13	Diols condensants	A01-E14	gramophone	A12-W01
Dihydroxy diphenyl sulphide condensants	E10-E02D1 A01-E13	Dioxane	E07-A04	magnetic recording	A12-E08A2 L03-B05B
Dihydroxy diphenyl sulphone condensants	E10-A10B A01-E13	Dip coating with polymers	A11-B05A	magneto-optical optical	G06-D07 A12-L03C G06-D07
Dihydroxydiphenyl ether	A01-E13	Dip for tyre cords non-polymeric polymeric	A08-M01+ A12-T01C	video	A12-W01A
Diisobutene (co)polymers monomer	E10-J02C A04-G A01-D13	Dip moulding/ forming of polymers	A11-B04B	Dishwasher detergents	D11-D01A
Diisobutylene (co)polymers monomer	E10-J02C A04-G A01-D13	Diphenyl methane diamine condensants	E10-B01B A01-E05	Dishwasher rinse aids	D11-D07E
Diisocyanate + diacids derived polyamides	A05-F	Diphenyl methane diisocyanate	E10-A14 E10-A14A E10-A14B A01-E02	Disinfectants	B12-A01 B14-A01 C12-A01 C14-A01 D09-A01 A08-M02
Diisocyanates	E10-A14 E10-A14A E10-A14B A01-E02	condensants		polymer additives	
condensants		Diphenylol ether condensants	E10-E02D2 A01-E13	Disinfection	
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 ketone condensants	E10-E02D2 A01-E13	aseptic environment	D09-B03
Diluent for polymers reactive	A08-S02 A08-P	Diphenylol methane condensants	E10-E02D4 A01-E13	chemical methods	D09-A01
Dimensional stabilisation of fabrics, chemical treatment	F03-C04	Diphenylol sulphide condensants	E10-E02D1 A01-E13	candles of air of materials (other than food)	D09-B02 D09-B
Dimerisation equipment	A10-B08 E11-F01A A10-B01	Diphenylol sulphone condensants	E10-A10B A01-E13	physical methods	D09-A D09-A02
Dimerised fatty acids condensants	A01-E12	Dipping, coating with polymer by	A11-B05A	Disintegrating plant processes	J02-B01 J02-B02
Dimethano(1,4:5,8)-naphthalene	B09-C02 C09-C02 E09-C02	Dipping, polymer articles formed by	A11-B04B	Dispensers (excluding syringes)	B11-C03 C11-C03 D03-K10
Dimethyl formamide	E10-D03D	Dipropylene glycol condensant	E10-E04H1 A01-E14	foodstuffs	
Dimethyl phthalate condensant	E10-G02 A01-E11	Direct contact heat exchangers	J08-B	Dispersants for dyes/pigments for polymers	J02-A03
Dimethyl polysiloxane	A06-A+	Direct contact trickle coolers	J08-B01	Disperse dyes for dyeing printing fibres	F03-F18
Dimethyl vinyl ethynyl carbinol monomer	A01-B01	Direct dyes for dyeing/ printing fibres	F03-F20	Dispersing agents	J02-A B12-M09 C12-M09 J02-A03C J02-A03B
Dimethylaminomethyl methacrylate (co)polymers monomer	E10-B02E A04-D09 A01-D07 A01-D10B	Direct electron recording	G06-D03	apparatus agents for dyes/pigments for polymers processes	A08-M01A J02-A03A
Dimethylol urea	A05-B03 E10-A13B E10-A13B1 E10-A13B2	Direct positive materials for photosensitive systems	G06-C05	Dispersion coating process	A11-B05D
Dinitrosopenta- methylene tetramine blowing agent	A08-B03	Disaccharides (non-heterocyclic known structure)	E10-A07	Dispersion hardening of metals by casting method heat treatment - see Heat treatment physical method (ferrous metal)	M22-G03K M24-D06
Diocetyl phthalate plasticiser	E10-G02 A08-P02	Disaccharides (unknown structure or general)	B04-D01 C04-D01 D06-G	physical method (non-ferrous metal)	M29-D
Diodes rectifiers semiconductor	L04-E02 L04-E03A	Discharge devices, iron and steel production	M24-A05C	powder metallurgy	M22-H03F
Diolefinic (co)polymers	A04-B+	Discharge dyeing/ printing of fibres	F03-F28	Dispersion, aqueous	A07-B+
Diolefinic monomers	A01-C+	Discharge tubes or lamps	L03-C	Dispersions, polymer	A07-B+
		Discharge, electric chemical modification of polymers by surface treatment of polymers	A10-E10	Displacement techniques, oil wells	A12-W10B
		Discontinuous paper/ cardboard sheets formation	A11-C04E F05-A04D	Displacing liquids by another fluid	J01-C02
		Discs floppy	A12-E08A2 L03-B05B	Display devices electrochromic electrowetting LED display liquid crystal	L03-G05 L03-G05C L03-G05J L03-G05K A12-L03B L03-G05A

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
Dissolving out a component (purification of polymers)	A10-G01+	antisense sequences	B04-E06 C04-E06 D05-H12D2	sequencing method	D05-H12D4 B11-C08E4 C11-C08E4
Dissolving/degrading treatment for fabrics	F03-C08	biosynthesis of cDNA	D05-C07 D05-H12		B11-C08F7A C11-C08F7A
Distillation Apparatus	J01-A02A J01-A02A3 J01-A02A4	DNA/RNA chip	C11-C08E6		D05-H18A
columns extractive	J01-A02A2 J01-A02A1	coding sequences (altered)	B04-E02 C04-E02	short interfering RNA	B04-E07C C04-E07C
fermented solutions	D05-D	coding sequences (other)	B04-E03 C04-E03		D05-H12D8A
fuels	H06-B08		C04-E03	small hairpin RNA	B04-E07E C04-E07E
of polymers	A10-G01+	cosmids	B04-E08 C04-E08		D05-H12D8C
petroleum processing	H02-A		B04-E07B C04-E07B	transfer RNA	B04-E07 C04-E07
water treatment by	D04-A01A	DNAzyme	D05-H12D7	transgenes	B04-E02+ C04-E02+ D05-H12C
Distomiasis treatment	B12-B06 B14-B03 C12-B06 C14-B03	DNA probe test method	B11-C08E5 C11-C08E5		B04-E08 C04-E08
Distribution of electricity	L03-H01	DNA probe test reagent	B12-K04F C12-K04F	vectors	D05-H12E
Distributors for use in forming fibres	F01-C01	fusion genes	B04-E02H B04-E03H C04-E02H C04-E03H D05-H12C	wild-type coding sequences	B04-E03+ C04-E03+ D05-H12A
Disulphides (organic)	B10-A04 C10-A04 E10-A04		B04-E01 C04-E01 D05-H12	DNA/RNA polymerase agonists	B14-L01A2 C14-L01A2
Dithiocarbamates accelerators for crosslinking	A08-C03 A08-D04	general	B11-C08E5 C11-C08E5 B11-C08F8 C11-C08F8	inhibitors	B14-D06A C14-D06A
Dithiocarbamic acid, or ester (organic)	B10-A12A C10-A12A E10-A12A E10-A12A1 E10-A12A2	hybridisation test method	B12-K04F C12-K04F B04-E07D C04-E07D D05-H12D8B	Dobbys	F02-A02
Dithiocarbonic acid ester	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2	hybridisation test reagent	B04-E07 C04-E07	Doctors for papermaking machines	F05-A05
		micro RNA	B04-E02+ B04-E02+ D05-H12B	Dodecylbenzene sulphonate	E10-A09B
		mitochondrial	B04-E07 C04-E07	Dodecylactam condensant	A01-E04
		mutant sequences	B04-E07 C04-E07	Doffing of bobbins	F01-H03C
Dithiole	B07-B03 C07-B03 E07-B03	non-coding sequences	B04-E02+ B04-E02+ D05-H12B	Dog bones (synthetic)	D03-G06
Diuretics	B12-G03 B14-N08 C12-G03 C14-N08	oligonucleotides	B04-E07 C04-E07 D05-H12D	Dolomite preparation	L02-B02
Divided (powdery), forms of polymers production of	A12-S09+ A11-A04	oncogene	B04-E02G B04-E03G C04-E02G C04-E03G	Domestic	C14-X
Divinyl benzene (co)polymers monomer	E10-J02B A04-B10 A01-C03	plasmids	B04-E08 C04-E08	Donning of bobbins	F01-H03C
Divinyl benzene-styrene copolymer	A04-B10 A04-C04+	polymerase, for use in genetic engineering polymerases	D05-H19B B04-L04A C04-L04A B04-E05 C04-E05 D05-H12D1	Doors, polymer use in building glazing transport	A12-R02A A12-R04 A12-T04+
Divinyl ether (co)polymers monomer	E10-H01 A04-B A01-C04	primers		DOP plasticiser for polymers	A08-P02
				Dopaminergic	B14-J02C2 C14-J02C2
				Doping glass, surface doping	L01-G05A
				Doping semiconductors layers, and regions – general	
				layers, by diffusion layers, by direct contact with liquid or solid layers, by ion implantation layers, simultaneously with layer formation	L04-C02 L04-C02D L04-C02C L04-C02B L04-C02A

single crystals	L04-B03	Drip-dry finishes for textiles	F03-C04	Duchennes Muscular Dystrophy	
Dosimeters	A12-L	Drive fluids for oil wells,			B14-J05E
personal	K07-A01	polymer use	A12-W10B		C14-J05E
Dosing in polymer processing	A11-A	Drug combination	B14-S18 C14-S18	Durable press fibre/ fabric treatment non-resinous	A12-S05R F03-C04
Dots, magnetic	L03-B06			resinous	A12-G02 F03-C04
Doubling of fibres, yarn	F01-H01	Drug conjugates general	B04-Q C04-Q	Dusting agents for polymers	A08-M07
Dough	D01-B	Antibody drug conjugate	B04-Q01 C04-Q01	Dusting powders	B12-M02E C12-M02E E12-A07
additives	D01-B01	Other protein/peptide drug conjugates	B04-Q02 C04-Q02	Dwarfism treatment	B14-S02 C14-S02
containers for	D01-A04	Synthetic polymer-drug conjugates	B04-Q03 C04-Q03	Dye	
cutting and dispensing				addition to paper, cardboard	F05-A06D
equipment	D01-A02			auxiliaries for fibres	F03-F32
handling	D01-A			composition containing polymer	A12-W11H
mixing equipment	D01-A05			destruction colour material for	
shaping	D01-A02			photosensitive systems	G06-C03
transporting equipment	D01-A03			dispersants for fabrics/fibres	F03-F32
Dough moulding compounds	A12-S	Drug Design by computer modelling	B11-C08H C11-C08H	dispersants for polymers	A08-M01A
Downhole protector	H01-B03C5	Drug Screening	B11-C08 C11-C08	formulation	E27-A02
Downy mildew	C14-A06P	Drug testing	B12-K04E C12-K04E	general	E25
Doxorubicin	B02-D C02-D	drug discovery	B12-K04E1 C12-K04E1	LCD	L03-G05B3
Doxycycline	B02-T C02-T	other drug testing	B12-K04E3 C12-K04E3	levellers for fabrics/fibres	F03-F32
Drafting yarn	F01-F02	Drums (containers) and drum linings	A12-P05	levellers for polymers	A08-M01A
Drain cleaners	D11-D01E	Drums (musical)	A12-W08	morphology of	E27-B02
Draperies	A12-D01 F04-D03	Dry cleaning textiles	F03-J04	precursors	E26
Draw texturing of fibres	F01-C06 F01-H04+	Dry etching semiconductors	L04-C07B	precursors, couplers (azo or oxidation)	E26-A
Drawing		Dry powder inhaler	B12-M01B1 C12-M01B1	precursors, lactone, lactam, sultone, sultam, photochromic, or spiropyran	E26-B E26-C
artificial filaments	F01-C06	Dry spinning	A11-B15C F01-C08A		
equipment	M21-B01B	Dry toning, electrophotographic	G06-G05	precursors, others	
glass from melts	L01-D01	Dry-laying non-woven fabrics	F02-C02	receptiveness, improving	
metal sheets, wires, rods, tubes or profiles	M21-B01	Drying		agents for polymers	A08-M01A
optical glass fibres	L01-F03G	agents (siccative)	G02-B04	receptiveness, properties of polymers	A09-A06
polymers	A11-B02+	apparatus or machines	J08-G	receptiveness, treatment for fabrics/fibres	F03-C06
processes	M21-B01A	ceramics or refractories	L02-A03	release diffusion transfer materials, multicolour	G06-C09A
slivers	F01-F02	coffee	D03-D01D	release diffusion transfer materials, single colour	G06-C10A
texturing yarns only by	F01-H04C1	compression	J08-F05	removal from water	D04-B06B
Dresses of fabric	A12-C03 F04-C03	fabrics (laundering)	F03-J01	treatment (of)	E11-Q
Dressing of fibres, yarns	F01-H06+	fabrics (non-laundering)	F03-A02	Dye type	A08-E03+ F03-F+
Dressings for wounds	A12-V03A D09-C+ F04-E04	food (devices)	D03-K09	acid, anionic	F03-F21
Drier sections, of papermaking machines	F05-A04C	gases	J01-E01	anthraquinone	A08-E03B E22
Driers for paints	G02-B04	general applications	J08-H	azo	A08-E03A+ E21
Driers for textiles	F03-J01	hot blast	M24-A05E1	azo, dis- or poly- azo, mono-, water insoluble	A08-E03A2 A08-E03A1
Drilling fluids	A12-W10A H01-B06 H01-B06C	in polymer processing	A11-A02+ G02-B03	azo, mono-, water soluble	F03-F22
additives	H01-B06C	oils	A05-E08	basic, cationic	F03-F20
oil-based	H01-B06B	oils, containing polyesters	J08-F	disperse	F03-F18
water-based	H01-B06A	processes	G06-E05	fluorescent	E24-A
Drilling mud	A12-W10A H01-B06 H01-B06C	purification of polymers by sludge from water	A10-G01A D04-B10		
additives	H01-B06C	tea	D03-D02D		
mixing and processing	H01-B03A2	through air drying	J08-H02		
oil-based	H01-B06B	wood	F05-B		
water-based	H01-B06A	Dual-in-line packaging	L04-F05		
Drilling of polymers	A11-A05A	Dual release devices	B12-M10A6 C12-M10A6		
Drilling, methods or equipment (oil and gas)	H01-B				

fluorescent brightener	A08-E03C
	D11-B01
	E24-A
	F03-B01
general	E25
leuco vat	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
metal complex	F03-F25
natural dye of unknown	
structure	E25-F
optical brightener - see	
Fluorescent brightener	
pigment for fibres, fabric	F03-F17
pigment inorganic for	
polymers	A08-E02
reactive organic for polymers	A08-E04
	F03-F19
special classes	E24
sulphur	F03-F24
vat	F03-F23
Dyeability of polymers	A09-A06
Dyed textiles, after-	
treatment(of)	F03-F14
Dyeing	
aids for polymers	A08-M01A
apparatus	F03-F01
auxiliaries for fabrics/fibres	F03-F32
fabrics/fibres	F03-F+
of polymers	A11-A01+
of wood	F05-B
processes, after-	
treatment(s)	F03-F14
processes, cheese	F03-F29
processes, cop	F03-F29
processes, discharge	F03-F28
processes, foam	F03-F26
processes, general	E11-R
	F03-F+
processes, solvent	F03-F13
processes, spin	F03-F30
processes, transfer	F03-F27
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
food	D03-H01E
hair	D08-B06
inorganic fabrics/fibres	F03-F12
metallic fabrics/fibres	F03-F12
methacrylic fabrics/fibres	F03-F05
paper	F05-A06D
pencil leads	G02-A04B
polyamides	A12-S05N

polyesters	F03-F06+
	A12-S05N
	F03-F07+
polymers	A08-E+
polyolefins	F03-F08
polyurethanes	F03-F10
polyvinyl alcohol	F03-F11
polyvinyl chloride	F03-F11
printing inks	
printing inks, general	G02-A04B
printing inks, polymeric	A12-W07E
regenerated celluloses	F03-F09
screening light sensitive	
compositions	G06-A02
spandex® fabrics/fibres	F03-F10
textiles, of general	
application	F03-F16+
vegetable substrates	F03-F03
vinyl fabrics/fibres	F03-F11
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
catalysts	N03-A02B
inorganic	E34-E02B
organic	E05-P
Dystonia treatment	B12-E02
	C12-E02

E

Ear preparations (general)	B12-L04
	B14-N02
	C12-L04
	C14-N02
Earth consolidation	A12-A02
	A12-W10C
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
Edema treatment	B12-G03
	C12-G03
general	B14-C03
	C14-C03
Edge crimping of fibres	F01-H04C
Edible fibres	F04-G
Educational devices, models	A12-F
Effluent treatment	A12-W11+
	E11-Q
aqueous	D04-A
	D04-B
Egg white	B04-B04A6
	B04-N02
	B04-B04N1
	C04-B04A6
	C04-N02
	B04-B04N1
Eggs (hen)	B04-B04N1
	C04-B04N1
Eggs and products	D03-M
preservation of	D03-A03
Einsteinium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Ejection of polymer mouldings	A11-C06
Elaiomycin	B02-E
	C02-E
Elastase	B04-L05C
	C04-L05C
Elastic (e.g. spandex) fibres	A12-S05D
Elastic bands	A12-P07
Elastin	B04-N02
	C04-N02
Elbows, artificial	D09-C01D
Electrets	L03-B03
Electric devices production photographically	
	A12-L02B2
	G06-D06
Electric devices testing	L03-X

Electric discharge		Electricity generators, thermionic		discharge lamps or tubes, emissive	L03-C02A
chemical processes	A10-E10		L03-E05	discharge lamps or tubes, non-emissive	L03-C01
polymerisation involving	A10-B	Electricity, applications to generation, conversion and distribution	L03-H01	electrochemical cells	A12-E09
surface treatment by	A11-C04E	Electroconductivity agents	A08-M09A	electrolytic cells	A12-E09
Electric discharged polymer, chemically modified	A10-E10	carbon-based	A08-M09A1	electrophoresis cells	J03-B01
Electric steels	L03-B02A3	Electro steel processing	M24-B02D	fuel cells	M28-C01
Electric welding and cutting	M23-D	Electro(in)organic, general	L03	melting, graphite arc	A12-E09
apparatus	M23-D01B4	Electro-optical use	A12-E11+	primary or secondary cells	A12-E06A
arc	M23-D01	Electro-osmosis	J03-D01	semiconductor devices	L03-E04B
circuits	M23-D01B3	Electroacoustic	A12-E12	welding	L03-A02
electron beam	M23-D04	Electrocardiograph equipment	A12-E+		L03-E01B
electroslag welding	M23-D07		A12-V03C2		A12-E07C
induction heating	M23-D03	Electrocatalyst	J04-E04D		L04-C11C
laser beam	M23-D05	Electrocatalytic process	N07-G		M23-F
plasma	M23-D01	Electrochemicals	B11-C04K	Electrodes, glass	L03-A02
resistance welding	M23-D02		C11-C04K	Electrodes, membrane	L03-E04B2
spark erosion	M23-D06	Electrochemical cells	A12-E09	Electrodes structure/materials	L03-E05B2
Electric well logging	H01-A02A	Electrochemical machining	M23-D06	Electrodes, target	L03-C02A
Electrical		Electrochemical processes or apparatus	B11-C01	Electrodialysis	J03-D
accumulators	A12-E06+		C11-C01	purification of water	D04-A01E
drug administration device	B12-M10F	Electrochemical treatment of water	E11-N	Electroerosion machining	M23-D06
	C12-M10F	Electrochromic materials	J03-A	Electroforming	M11-D
batteries	A12-E06+	Electrochromic displays	L03-G05C1	Electrography - see	
cable insulation	A12-E02+	Electrochromic dye precursors	E26-B	Electrophotographic	
cable insulation compositions	A12-E02A	Electrodecanation, purification by	A10-G+	Electroless plating of metal	M13-B
capacitors	A12-E07B	Electrodeposition	A11-B05A	Electroluminescent displays	L03-G05F
circuit components	A12-E07+	coating with polymer by control systems	M11-B07	Electrolysis of fused electrolytes to produce metals or alloys	M28-B
coils	A12-E08B	electrolytes (disposal or recovery)	M11-B06	Electrolysis of solution to produce metals or alloys	M28-A
conductors	A12-E02+	laboratory methods for multilayer deposition	M11-B08	Electrolytes (electrodeposition), disposal or recovery of	M11-B06
discharge	B11-C01	of chromium	M11-B02	Electrolytes,	
	C11-C01	of cobalt	M11-A01	for capacitor	L03-B03H
	E11-N	of copper	M11-A02	for electrolytic cells	J03-B05
encapsulation	A12-E04	of iron	M11-A06A	for primary or secondary cells	L03-E01C
epoxy resin use in	A05-A01E2	of metals and alloys	M11-A	Electrolytic	
fuel cells	A12-E06+	of nickel	M11-A02	capacitors	L03-B03A
	L03-E04	of noble metals	M11-A05	cells	A12-E09
glass, applications	L01-L04	of zinc	M11-A04		J03-B02
insulating cases or bodies	A12-E05	on difficult surfaces	M11-B05	cleaning of metal	M28-C
insulating oils	H08-D08	on printed circuits	L03-H04E3	coating of metal with non-metallic layer	M11-H01
insulation tape	A12-E03	on tubes, wires, etc.	M11-B05A	construction and assembly of cells	M11-F
insulation, foam use in	A12-S04E	pretreatment of metallic substrates for special methods or chemical additives	M11-B04	conversion layers	M28-C03
machining	M23-D	thermal after-treatment	M11-B09	electrodes	M11-E
magnetic tape, devices	A12-E08A1	Electrodes for			J03-B01
material, coating		accumulators	A12-E06A	etching of metal	M28-C01
compositions for	G02-A05B	batteries	A12-E06A	general processes	M11-H02
polymer use in	A12-E+	capacitors	L03-E01B	machining of metal	J03-B09
potting compounds	A12-E04		L03-B03G	metal treatment - control and testing	M23-D06
production of hydrogen	E31-A02A			operating and servicing of cells	M11-J
properties	A09-A03			polishing of metal	M28-C02
	A09-A04			polymerisation	M11-H02
transformers	A12-E08B				A10-B
wire insulation	A12-E02				A10-D06
wire insulation compositions	A12-E02A				
wire insulation treatment of polymers	A10-E10				
Electrical engineering	A12-E+				
epoxy resin use in	A05-A01E2				
polyamide use in	A05-F01E2				
polyethylene use in	A04-G02E4				
polyurethane use in	A05-G01E2				
PVC use in	A04-E02E1				
reinforced polymer use in	A12-S08D2				
saturated polyester use in	A05-E01D2				
silicone use in	A06-A00E2				

production or refining of metal	M28-F	polymer use in processes, general and other	A12-L05+	Elimination processes	B11-C01
recording	G05-E		G06-G08+		C11-C01
separators	J03-B03	substrates	A12-L05D	catalytic	E11-G
stripping of metallic layer or coatings	M11-H02		G06-G05B		N07-F+
Electromagnetic screening	A12-E01A	toner transfer processes	G06-G08B	Elliptical optical glass fibres	L01-F03J
		toners	A12-L05C2	Elvanol ®	A10-E09+
Electron acceptors	G06-H06		G06-G05	Embossing paper	F05-A05B
desensitisers	G06-H06		G06-G06	Embossing polymers	A11-C04C
for heat sensitive systems	G06-F08A	Electrophotographic applications		Embroidering	F02-F02
Electron beam		direct electron recording	G06-D03	Embryo extracts	B04-B04H
bombardment, radiation		lithographicfilms, paper	G06-D02		C04-B04H
chemical modification by	A10-E10	optical storage storage media	G06-D07	Emetics	B12-J06
crosslinking by	A11-C02B	photoresists	G06-D04		B14-E06
Electron beam welding and cutting	M23-D04	production of circuits	G06-D06A		C12-J06
		production of electrical elements	G06-D06		C14-E06
Electron donors for heat sensitive systems	G06-F08A	production of opto-electronics	G06-D06B	Emissive electrodes	L03-C02A
Electron exchange resins	A12-M+	production of printing plates	G06-D05	Emollients	B12-A07
Electron Microscopy	B11-C08G3	X-ray materials	G06-D01		B14-R01
	C11-C08G3	Electrophotographic use of (meth)acrylamide			C12-A07
Electron sensitive resists	A12-L02+	(co)polymer	A04-D04A1	Emulsifiers	C14-R01
Electron, direct recording	G06-D03	(meth)acrylate (co)polymer	A04-F06E4		D08-B09
Electroneutral detergents	D11-A04	phenoplasts, general	A05-C01B2		A08-S05
Electronic		polyamides	A05-F01E3		B12-M09
applications of glass	L01-L04	polyethylene	A04-G02E3	for food	C12-M09
ceramics, general	L02-G07	polypropylene	A04-G03E1		H08-E07
circuitry, basic	A12-E07+	polyvinyl alcohol	A10-E09B2	Emulsion	J02-A03
	L03-H02	silicone polymers	A06-A00E4		D03-H01N
components	A12-E07+	Electrophotography (see also section G)	A12-L05+		A07-B+
	L03-G	using semiconductor devices	L04-E05E	addition polymerisation aqueous, of polymers binders (photographic)	B12-M03
Electro-optical device	L03-G10F				C12-M03
Electrophoresis	A12-E09	Electroplating (see also electrodeposition)			D03-H01H
	J03-C	apparatus	M11-C		A10-B03
tests	B11-C08D1	bath additives	A12-W12E	breaking	A07-B+
	C11-C08D1	plastics	A11-C04B1	breaking for oil well	A12-L01
Electrophoretic coating of metal	M11-G	printed circuits	L03-H04E3	effluents	G06-A06
displays and materials	L03-G05G		M11-B05A	explosives	J01-D03
Electrophotographic apparatus (see also G06-G05 to G06-G08+)	A12-L05C1	Electroporation devices	D05-H20	formation (excluding by polymerisation)	A11-A03+
antireflective layer	G06-A02A	Electrorheological devices	L03-G09F	fuels	H06-B09
binders	A12-L05D	Electroslag		graft copolymerisation	A10-C03B
carriers	A12-L05C2	remelting or refining	M28-E	paints (water based)	A12-B01A
charge transfer	G06-G08D	welding	M23-D07	polymerisation	A10-B03
charging	G06-G07				A10-C03B
cleaning process (including removing toner from image or apparatus)	G06-G08E	Electrostatic		spinning, fibres	A10-D+
developed image fusion	G06-G08C	applications of (in)organic materials	L03-H04B	stabilisers (photographic)	F01-C07
developed image transfer	G06-G08B	coating of or with metal	M13-H06	supports (photographic)	G06-H03
dry toning	G06-G05	coating with polymer	A11-B05A		A12-L01
electrically conductive layers	G06-A07	precipitation from gases	J01-G04	Emulsification	G06-B+
		properties	A09-A03	agents	J02-A
equipment (see also G06-G05 to G06-G08+)	A12-L05C1	recording	A12-L05+	apparatus	J02-A03C
fusing, fixing process	G06-G08C	separation of solids	J01-K02	processes	J02-A03B
imaging methods (particle migration)	G06-G08D	spinning	F01-G		J02-A03A
latent image transfer	G06-G08D	Electrostrictive devices	L03-G10	Enamelling	M13-J
liquid toning	G06-G06	materials	L03-G09H	post-treatment	M13-J03
photoconductive polymers	A12-L05B	Electrothermic production or refining of metal	M28-F	pretreatment of surfaces	M13-J01
		Electrothermic treatment of alloy, metal or ore	M28-E	processes	M13-J02
		Electrowetting devices	L03-G10J	vitreous	L01-H06
				Enamels	
				ceramic, polymer uses	
				excluding coatings	A12-W12G
				polymeric	A12-B
				Enantholactam condensant	A01-E04

Encapsulated components		biosynthesis of	D05-C03	soybean oil plasticiser/	
electrical	A12-E04	catalysts	N05-E	extender	A08-P07
non electrical	A12-W05	compositions (polymer use)	A12-W11L	Epoxy compound,	
Encapsulating	A11-B05+	detergent additives	D11-B01D3	polymerisation catalyst for	A02-A+
electrical components	A12-E04	general inhibitor activity	B12-G01B	Epoxy containing plasticisers	A08-P07
integrated circuits, chips			B14-D03	Epoxy group containing	
etc. with lead frames			C12-G01B	condensants	A01-E07
and assemblies	L04-C02D	inhibitors	C14-D03	Epoxy paints, varnish or	
Encapsulation	J04-A06		B04-B04F	lacquer	A12-B01L
of pharmaceuticals	B12-M18		B04-M01	acrylic	G02-A02G
	C12-M18		C04-B04F		G02-A02C1
of printed circuit boards	L03-H04E8	polymerisation catalyst	C04-M01	Epoxy resins	A05-A+
of semiconductors,		precursors, other	A02-A12	adhesives	A05-A01E3
apparatus, moulds,			B04-L09		A12-A05C
hand equipment	L04-C20C	process excluding	C04-L09	amination	G03-B02E2
of semiconductors, in glass	L04-C20B	polarography or labelling	B11-C08E3	coatings/paints	A10-E18
of semiconductors, in resins			C11-C08E3		A12-B01L
	A12-E04	processes with enzymes			G02-A02G
	A12-E07C	fixed to carriers	D05-A01	cycloaliphatic	A05-A05
	L04-C20A	processes with enzymes		electrical encapsulation	A05-A01E2
Encephalitis	B14-N16	not fixed to carriers	D05-A02	general applications	A05-A01E+
	C14-N16	supports	A12-W11L	general applications,	
			D05-A01	adhesives and binders	A05-A01E3
Encrustation of equipment,		tracers bound to antigen/		general applications,	
(with polymer) prevention of	A10-G02	antibody	B11-C07A4	coatings	A05-A01E4
End etherified polymers	A10-E08+		C11-C07A4	general applications,	
End joining in winding	F01-H03B	EPDM	A04-G06+	electrical engineering	A05-A01E2
Endocrine gland extracts	B04-B02D	Epichlorohydrin		general, compounding	A05-A01B
	C04-B02D	(co)polymers	A05-H04	general, fabrication	A05-A01C
Endorphins	B04-J11	amine condensates	A05-J09	general, production	A05-A01A
	C04-J11	condensants	A01-E07	general, treatment	A05-A01D
Enemas	B12-M08	monomer	A01-E07	glycidyl ether of alcohols	A05-A03
	C12-M08	rubber	A05-H04	glycidyl ether of phenols	A05-A02
Energy boosters	D03-H01T4	Epikote 828 ®	A05-A02	in polymeric blends	A07-A+
Energy conversion devices	L03-E05	Epilepsy treatment	B12-D04	other glycidyl compounds	A05-A04
			B14-J07	other specific compounds	A05-A
Engine exhaust gas			C12-D04	3,4-Epoxy-6-methylcyclo hexyl	
detection/measurement	H06-C05		C14-J07	methyl-3,4-epoxy-6- methyl	
treatment	H06-C04	Epimerase	B04-L07	cyclohexane carboxylate	A05-A05
	E11-Q02A		C04-L07		E06-A03
Engine systems (transport)	A12-T04C	Episulphides		EPR	A04-G06+
Engineering		(co)polymers	A05-J05	Equipment cleaning	
nuclear applications	K09-K	condensants	A01-E07	of paper making equipment	F05-A04E
tissue scaffold	D09-C01E	Epitaxial growth of		of polymerisation equipment	A10-G
Engineering (application of		semiconductor layers – general	L04-C01	Equipment control	A09-D+
polymers)				in extruders	A09-D02
chemical	A12-W11+	Epocryl ®	A10-E07B	in moulding processes	A09-D01
civil	A12-R+	Epon 828 ®	A05-A02	other	A09-D03
electrical	A12-E+	Epoxidation of polymers	A10-E06	Equipment encrustation	
mechanical	A12-H+	Epoxides (i.e. monoepoxides)		(with polymer), prevention of	A10-G02
nuclear	A12-W11C	condensants	A01-E07	Equipment for polymerisation	
Engines, jet	A12-T03	Epoxides (unfused)	B07-A03	addition (co)polymerisation	A10-B01
Enkephalins	B04-J11		C07-A03	ordered addition	
	C04-J11	Epoxides of bicycloalkenes	E07-A03	copolymerisation	A10-C+
Entangling yarns	F01-H02			polycondensation	A10-D04
Envelopes for discharge				Equipment for processing and	
tubes or lamps	L03-C04			treating polymers	
luminescent	L03-C04B	Epoxidised	B06-A03	colouring, bleaching	A11-A01B
Environment friendly	E11-W	drying oil plasticisers	C06-A03	compounding, mixing,	
Enzymes	A12-W11L	novolac or resols	E06-A03	homogenising	A11-A03A
	B04-B02C	phenolic resins		extruder design	A11-B07C
	B04-L01	phenoplasts	A10-E08C	injection moulds	A11-B12B
	C04-B02C	polybutadiene	A10-E08C	injection, other	A11-B12C
	C04-L01	polymers	A10-E06	others - see appropriate	
agonist	B14-L01A		A10-E06	process code	
	C14-L01A			spinning heads, die design	A11-B15A

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	Esters, inorganic, cellulose	A03-A03 B04-C02A3 C04-C02A3	monomer	A01-D13
catalysts	N03-A02B	Estr - see also Oestr- 1,4-Estradienes	B01-B03 C01-B03	polymer	A04-G02+
inorganic	E34-E02B	Estradienes (two ring "A" double bonds other than 1,4)	B01-B04 C01-B04	Ether, mono-unsaturated	
organic	E05-P	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 polyoxy alkylene 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-A04	Ethers, allyl (monoolefinic) (co)polymers	A04-F11 A01-D11
Essential oils	D10-A05A	mechanical processes	M14-A01	monomer	A03-A04+ B04-C02A2 C04-C02A2
Ester - see also under appropriate acid		Etching metal, electrolytic apparatus	M11-H M11-H05 M11-H01	Ethers, cellulose	A01-E08
Ester interchange of (meth)acrylic acid, monoolefinic (co)polymers	A04-F06	cleaning	M11-H01	Ethers, diallyl (co)polymers	A04-B A01-C04
polycondensation by	A10-D05	electrochemical machinery, localised metal removal	M23-D06	Ethers, F containing monoolefinic, (co)polymers	A04-E10C
polymer modification by	A10-E07	etching	M11-H04	Ethers, vinyl (co)polymers	A04-F11 A01-D11
Ester plasticisers	A08-P+	polishing	M11-H02	monomer	
aliphatic esters	A08-P05	Etching metal, sputtering	M13-G	Ethoxylated sulphate detergents	D11-A01F2
aromatic esters (excluding phthalates)	A08-P03	Etching polymer	A11-C04D	Ethoxyline resins	A05-A+
hydroxy acid esters	A08-P06	Etching processes in semiconductor manufacture	L04-C07 L04-C07B L04-C07A L04-C07C L04-C07B L04-C07D	Ethyl acetate solvent	E10-G02 A08-S02
inorganic esters	A08-P05	by dry methods	L04-C07B	Ethyl acrylate (co)polymers	E10-G02 A04-F06+ A01-D10B
non-carboxylic esters	A08-P05	by ion beam	L04-C07A	Ethyl acrylate- ethylene copolymers	A04-F06+ A04-G08A
phosphorus esters	A08-P05	in liquid phase	L04-C07C		
phthalates	A08-P02	in vapour phase	L04-C07B	Ethyl acrylate-2- chloroethyl vinyl ether copolymers	A04-E A04-F06+
Esterase		using plasma	L04-C07D		
agonists	B14-L01A3 C14-L01A3	Ethacrylic acid (co)polymers	E10-C04H A04-F04+ A01-D08	Ethyl alcohol derived acrylic esters	A04-F06+ A01-D10B
inhibitors	B14-D07A C14-D07A	Ethane-1,2-diol condensant	E10-E04H1 A01-E14		
Esterification	H04-E17	Ethanol	E10-E04E2 D05-B03		
Esterification of polymer by saturated acids (derivatives)	A10-E07+				
by unsaturated monobasic acids (derivatives)	A10-E07C 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-chloro- acrylate (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	A04-G08+	Ethylene-butene-1 copolymer (LLDPE)	A04-G06+	EVA copolymer	A04-G07
copolymers general monomer	A04-G11 A01-D13	Ethylene-chlorotri- fluoroethylene binary copolymer	A04-E10D A04-G08	Evaporation	A10-G+ A11-A02+ J01-A01 D06-D
polymer applications, coatings, adhesives and binders, textiles	A04-G02E+	Ethylene-ethyl acrylate copolymers	A04-F06+ A04-G08A	of sugar solutions	D06-D
polymer applications, film, packaging	A04-G02E1	Ethylene-methacrylic acid copolymers	A04-F04+ A04-G08A	Evaporative spinning	A11-B15C F01-C08A
polymer applications, photographic, household, office, medical, dental, cosmetic, veterinary	A04-G02E3 A04-G02B	Ethylene-olefin-1 copolymers	A04-G06+	Exhaust systems for engines	A12-T04C
polymer compounding	A04-G02C	Ethylene-propylene binary copolymers	A04-G06+	Expanded clay, preparation of	L02-B05
polymer fabrication	A04-G02A	Ethylene-propylene- diene rubber	A04-G06+	Expanded forms	E12-A10
polymer production	A04-G02D	Ethylene-propylene- (di)cyclopentadiene copolymers	A04-G06+	Expanded phenoplasts	A05-C+ A12-S03
polymer treatment	A04-G02D	Ethylene-propylene- 1,4-hexadiene	A04-G06+	Expanded polymers/plastics compositions, foam forming process, general	A12-S04A
Ethylene copolymers (also A4-G6+; A4-G7+)	A04-G08+	Ethylene-propylene- diene rubber	A04-G06+	compositions, foam forming process, general	A12-S04A1
Ethylene diacrylate (co)polymers monomer	A04-B09 A01-C01	Ethylene-propylene- diene terpolymer	A04-G06+	general processes	A12-S04A3
Ethylene diamine condensant	A01-E05	Ethylene-propylene- ethylidene norbornene	A04-G06+	compositions, foam forming process, general, other polymer compositions (excluding S01-S03)	A12-S04A2
Ethylene dimethacrylate (co)polymers crosslinker monomer	A04-B09 A08-C07 A01-C01	Ethylene-tetrafluoro- ethylene copolymers	A04-E09 A04-G08	compositions, foam forming process, general, polyolefin compositions	A12-S04A2
Ethylene glycol bis(allyl carbonate) (co)polymers	A04-B09	Ethylene-vinyl acetate copolymer (EVA)	A04-G07	compositions, foam forming process, general, polyolefin foaming process	A12-S04A2
Ethylene glycol condensant	A01-E14	Ethylene-vinyl acetate copolymer adhesive/binder	A12-A05B2 G03-B02D2	construction material, sound and thermal insulation	A12-S04B
Ethylene glycol-terephthalic polyesters	A05-E04+	Ethyleneic 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	Exposure to radiation in 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	of ceramic paste	L02-A03
polystyrenes, general foaming process	A12-S02C		C11-B	of film	A11-B07A
polystyrenes, other specific polyurethane	A12-S02E	from natural materials	E11-Q	of food	D03-K06
polystyrenes, polyetherurethanes	A12-S02D	Other separations	E11-Q01B	of sheet	A11-B07A
polystyrenes, polyurethanes	A12-S02+	Removal processes	B11-B03	of tube	A11-B07B
thermoset	A12-S03		C11-B03	pelletting	A11-A04
Expanding agent	A08-B+	Separation of stereoisomers by a biological method	B11-B04	polymer re-use by recovery of polymer scrap by regulators	A11-C03+
Expanding of polymers	A11-B06+	Separation of stereoisomers by other method	C11-B04	spinning	H08-E07
Expectorant	B12-K05	Extraction of ferrous metal by direct reduction, sponge iron or liquid steel production	B11-B02	Extrusion in metallurgy	A11-B15+
	B14-K01E	by wet method	C11-B02	auxiliary processes	M21-B02B
	C12-K05	from scrap, slag, flue dust etc.	M24-A	control devices	M21-B02D
	C14-K01E	using a blast furnace	M24-A03	equipment	M21-B02C
Experimental genomics	B11-C08F2	Extraction of natural polymers e.g. from trees	M24-A01	of metal sheet, wire, rod, tube or profile	M21-B02
	C11-C08F2		M24-A07	processes	M21-B02A
Experimental proteomics	B11-C08F4	Extraction of non-ferrous metal by dry reduction of ore	M24-A02	Eye disorder treatment	B12-L04
	C11-C08F4	apparatus	M25-C		B14-N03
Exploration for oil and gas	H01-A	methods	M25-C01	Eyelashes, false	C12-L04
Explosive		Extraction of non-ferrous metal compounds from ore by wet method	M25-C02		C14-N03
ANFO	K04-E01A1	Extraction of non-ferrous metal from scrap, flue dust, slag	M25-E	Eye makeup	A12-V04
Explosive charges	K03-A	Extraction, water treatment by	D04-A01N		D08-B01
Explosive forming (metal)	M21-D	Extreme pressure additives for lubricants	A12-W02A	Eyeshields	D08-B01
Explosive welding	M23-E02	Extruded nets	A12-P07		D08-B01A
Explosives	A12-T03A		F02-E03		A12-C02
	K04-A	Extruder			
	K04-E	bulk polymerisation in	A10-B02		
additives	K04-G	design	A10-C03C		
azide	K04-E03	equipment control	A10-D+		
based on chlorate oxidiser	K04-E01B	mixing	A11-B07C		
based on chlorates	K04-A02	safety in	A09-D02		
based on nitrate oxidiser	K04-E01A	Extruding to small particles	A11-A04		
based on nitrates	K04-A01	Extrusion	A11-B07+		
based on organic nitro compound(s)	K04-E02	blow moulding	A11-B07+		
based on perchlorate oxidiser	K04-E01B		A11-B10		
density control agents	K04-G	blowing of film	A11-B07A		
detection	K04-F03	coating	A12-S06A		
disposal	K04-F02	crosslinking	A11-B05B2		
emulsion	K04-E01	flash	A11-C02C		
inorganic	K04-E03	foaming	F01-C07B		
lead azide	K04-E03		A11-B06B		
lead styphnate	K04-E03				
manufacture	K04-F01				
manufacture and treatment	K04-A04				
	K04-F				
nuclear	K08-D				
organometallic	K04-E03				
sensitisers	K04-G				
slurry	K04-E01				
sprengel type	K04-A03				
styphnate	K04-E03				
water gel	K04-E01				

F

Fabric		of polymer fibre	A12-S05+	growth, general and other	B04-H06
melt blowing	A11-C05A1		F02+		C04-H06
Fabrics		physical characteristics of	F02-G01	HGF	B04-H06K
sizes	A12-G04	pile	F02-G03		C04-H06K
Fabrics - see also Fibres and		pile, net or gauze-like	A12-S05J	IGF	B04-H06H
Textiles		pill resistant - see under			C04-H06H
ageing resistance		Fibres		LIF	B04-H09
improvements	F03-C07	polymer coating on glass	A12-B05		C04-H09
analysis	F03-K02	polymer coating on other	A12-B02	MDGF	B04-H06C
apparatus for chemical			A12-G+		C04-H06C
treatment	F03-C01	printing	A11-C04A	metabolic	B04-B04J
biological repellents,			A12-S05Q		B04-H01
non-resinous	A12-S05R		F03-F+		C04-B04J
	F03-C02B	processes	A11-C05+		C04-H01
biological repellents,		processing aid	F03-C05	NGF	B04-H06D
resinous	A12-G	production weaving	A11-C05A		C04-H06D
	F03-C02B		F02-A04+	PAF	B04-H14
bleaching	A11-A01+	production, knitting	A11-C05A		C04-H14
	F03-B01		F02-B03+	PDGF	B04-H06B
calendering	A11-B03	products manufacturing	F04-F+		C04-H06B
	F03-A01	recycling	F03-E02	PGF	B04-H06J
chemical treatment	A12-G+	reinforced plastics	A12-S08F		C04-H06J
	A12-S05+	reinforced solid material		SCF	B04-H16
	F03-C+	design for	F03-D04		C04-H16
crease resistant finish -		repellent or retardent,		TGF	B04-H06F
see under Fibres		general	A12-G+		C04-H06F
crepe	F02-G02		A12-S05R	TNF	B04-H08
cutting	F03-K03	scouring	F03-C02+		C04-H08
decorating	F03-H	setting	F03-B	Faeces	B04-B04B
deodorising	F03-C09	severing	F03-A02		B04-B04B2
dye receptiveness		shearing	F03-A		C04-B04B
improvement	A08-M01A	softeners	D11-B15	Falling dart impact strength	A09-A05A
	F03-C06	softeners and detergents	D11-D07C2		
dyeing other substrates	A12-S05P	stretch	F03-C05	Falmerene	B05-U02
	F03-F+	synthetic production	F02-G04		E05-U02
dyeing polyester,			A11-C05A	False twisted fibres	A12-S05C
polyamide or cellulosic	A12-S05N	testing	F02+		F01-E04
	F03-F+	treatment - see above	F03-K02	conjugate	F01-E01A
flame retardant finish -		under chemical or		False twisting of fibres	
see under Fibres		mechanical		crimping	A11-B02D
foam use in	A12-S04D	waterproofing - see		non-crimping	F01-H04B
foamback (clothing)	A12-C01	under Fibres			F01-H01
general	A12-G+	winding up	F03-K01	Fan blades	A12-H
	A12-S05+	woven	A12-S05F	Fancy goods	A12-F
glass, polymer coating on	A12-B05	Face wash	F02-A03+	Fancy yarns	A12-S05E
handling	F03-K01	Liquid	D08-B09A2		F01-E
identification	F03-K01	Solid	D08-B09A2A	Farming	A12-W04+
inspection	F03-K02		D08-B09A2B	see also CPI Section 'C'	
joining	F03-K	Factors		Fascia, vehicle	A12-T04B
knitted	A12-S05H	blood	B04-B04D3	Fasciola treatment	B12-B06
	F02-B02		C04-B04D3		B14-B03
laundering	F03-J+	blood (general)	B04-H01		C12-B06
laying	F03-K01	clotting	C04-H01		C14-B03
lubricant finish	A12-S05S		B04-H19	Fast dyes for polymers	F03-F19
	D11-B15	EGF	C04-H19	Fast fission reactors	K05-A01
	F03-C05		B04-H06A		
marketing	F03-K	factor IV (calcium)	C04-H06A	Fasteners, fastenings	
mechanical treatment	A12-S05U		B05-A01B	clothing	A12-C03
	F03-A+	factors I to III	C05-A01B		F04-C04
mercerising	F03-B	factors V to XIII	B04-H19	manufacture	F04-F01
non-woven	A12-S05G		C04-H19	others (mechanical	M21-G
	F02-C01	FGF	B04-H06G	engineering)	A12-H12
non-woven pile fabrics	F02-C01A		C04-H06G	Fatigue combatting	B12-C06
non-woven self-bonded	F02-C01B1				B14-J01A
non-woven, polymer-					C12-C06
bonded	A12-B02B				C14-J01A
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, cast iron alloys treatment, production treatment, steel alloys	M27-B03 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	C12-N10 C14-T04 C14-T05
Saturated fatty acid	B10-C04E5 C10-C04E5		C11-A02B2 B11-A02B C11-A02B	trace element	
Feathers (or extract)	B04-B04E C04-B04E	using transferases using microorganisms	B11-A01 C11-A01 B11-A01A C11-A01A B11-A01C C11-A01C B11-A01B C11-A01B	Fertiliser mixtures containing P-acid (salt) and N compounds P-acid (salt), and no N	C05-B02A4 C05-B02A5
Febrifuge	B12-D08 B14-C04 C12-D08 C14-C04	using bacteria using fungi	B11-A01A B11-A01C C11-A01C B11-A01B C11-A01B	Fettling castings	M22-G03H
Feed devices for knitting machines	F02-B04	using viruses	B11-A01B C11-A01B	Fever inducing	B14-C05 C14-C05
Feed of workpiece to sewing machine	F02-F01B2	Fermentation tests	B11-C08E1 C11-C08E1	Fibre reinforced material, adhesion improving agents for	A08-M01+ F01-H06B M22-G03K
Feeding of slivers	F01-F04	Fermentation vessels automated mixing devices	D05-A03 D05-A03B D05-A03B	metal, by casting method metal, by powder metallurgy	M22-G03D M24-D06 M29-D
Feeding polymer to processing	A11-A	Fermented foods	D05-A04D	metal, ferrous metal, non-ferrous plastics production using moulds/extrusion polymers solid materials, fabric designed for	A11-B09C A12-S08+ F03-D04
Felt pens	A12-D05B	Fermented solution, distillation of	D05-D	Fibreballs	F01-E09A
Felt, polymer coating on	A12-B02+	Fermenting 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	inorganic organic	E35-R E05-Q	Fibreballs	F01-E09A
FEP	A04-E09 A04-E10D	Ferns	B04-A08B C04-A08B	Fibreboard	A12-A04B F05-A07 A11-B09B F05-A07
Fermentation apparatus	D05-A03	Ferric chloride catalyst for polymerisation	A02-A04 A02-A07+	Fibreballs	F01-E09A
Fermentation processes	B11-A C11-A D05-A D05-B D05-C E11-M J09-C01B B11-A02 C11-A02	Ferric, ferrous compounds - see also Iron		Fibreballs	F01-E09A
using enzymes	B11-A02 C11-A02	Ferricyanides (inorganic)	B05-A03A C05-A03A E32-B	Fibres	A12-S05X E12-A12 G02-A05H A12-G04
using dehydrogenases, reductases	B11-A02A4 C11-A02A4	Ferrite magnetic compositions barium containing non-barium containing	L03-B02B1 L03-B02B2	Fibres - see also Fabrics and Textiles	A12-S05+
using DNA/RNA polymerases	B11-A02B1 C11-A02B1	Ferrocyanides (inorganic)	B05-A03A C05-A03A E32-B	animal, chemical treatment	F01-B01
using esterases	B11-A02C1 C11-A02C1	Ferroelastic ceramics materials	L02-G07B L02-G09B	animal, mechanical treatment	F01-A01 L02-H04A L02-B08
using glycosidases	B11-A02C2 C11-A02C2	Ferroelectric ceramics materials	L02-G07B L03-G09B	carbon ceramic, manufacture ceramic, metal reinforced with coatings on	L02-J01D A12-B02+ A12-G+ A12-S05K A12-S05B F01-E01+
using hydrolases	B11-A02C C11-A02C			composition (general) conjugate conjugate (general) crease resistant finish, non-resinous	A12-S05R F03-C04
using isomerases	B11-A02E C11-A02E			crease resistant finish, resinous	A12-G02 F03-C04
using kinases	B11-A02B3 C11-A02B3				
using ligases	B11-A02F C11-A02F				
using lipoyxygenases	B11-A02A5 C11-A02A5				
using lyases	B11-A02D C11-A02D				

crimped	A12-S05C F01-E04	shrink resistant finish - see crease resistant finish	Fillers	
crimped conjugate	F01-E01A	soil proofing - see oil	asbestos	A08-R02
crimping (general)	A11-B02D F01-H04+	proofing above	carbon	A08-R03+ G01-A11
elastic (spandex)	A12-S05D	staple	cellulosic	A08-R07
false-twisting	A11-B02D F01-H01 F01-H04B	tapered	general	A08-R01
	A12-S05E	testing	glass	A08-R04
	F01-H01	textured	inorganic	A08-R+ G01-A+ A08-R05 G01-A12
fancy yarns	A12-S05E		metal	
finishing	F01-H06+	vegetable, chemical	other (not specified	
flame retardant finish,		treatment	elsewhere)	A08-R
non-resinous	A12-S05R F03-C03+	vegetable, mechanical	polymeric	A08-R08+
		treatment	reinforcing agents	A08-R+
flame retardant finish,		water proofing, non-	silica	A08-R06A G01-A06
resinous	A12-G01 F03-C03+	resinous	silicates	A08-R06B G01-A06
forming polyesters	A05-E+	water proofing, resinous	treatment of	G01-B+
general	A12-S05+ F01+		whiskers	A08-R09
glass	L01-F03	Fibrids		
glass, formation,		production	Filling bakery products	
equipment for	L01-F03C		after cooking	D01-A06
glass, formation,		Fibrillating	Filling glass containers	L01-J03
nozzles for	L01-F03B		Fillings, dental	A12-V02B D08-A01
glass, post-forming of	L01-F03E	Fibrils		
glass, roving formation	L01-F03D		Film	A12-S06+
glass, surface treatment	L01-F03A	Fibrin	base, photographic	A12-L01
grafting of monomer(s) on	A10-C03A		carrier for adhesives	G03-B04
gypsum	L02-C05	Fibrinase	casting process	A11-B04C
heat setting	A11-B02C F01-H05		containing polymer	
		Fibrinogen	coatings	A12-B07A
hollow	A12-S05A F01-E03		extrusion of	A11-B07A
insect repellant, non-		Fibrinogenase	formation by bubble	
resinous	A12-S05R F03-C02B	Fibrinoginase	methods	A11-B07A A12-S06A
		Fibrinolysin	forming (i.e. shaping of)	A11-B08+
insect repellant, resinous	A12-G F03-C02B		forming (Langmuir-Blodgett)	J04-X02 A05-E+
			forming polyesters	
mechanical finishing	F01-H+	Fibrinolytics	heat sealing/welding	
(general)			involving	A11-C01A1 A12-S06B
metal production	M22-H01		laminates, polymer on	
mineral, mechanical			polymer	A12-S06C1
treatment	F01-A03	Fibrous cellulosic suspension,	laminating	A11-B09A2 A11-B09D
mineral, preparation	L02-B08	production of articles from		
mineral, products	L02-D11		laminating, by extrusion	A11-B07A
monofilis	A12-S05E F01-E05	Fibrous fillers, reinforcing	lithographic	G06-D02
		agents	non-cellulosic polymeric,	
non-circular	A12-S05A F01-E02		in paper making	A12-W06A
non-iron finish - see		Fibrous webs, bonding to	of polymer blends	A12-S06D
crease resistant finish	A12-S05R	give non-woven fabrics	orientation	A11-B02A
oil proofing, non-resinous	F03-C02	Field effect transistors	packaging	A12-P01A
	A12-G03	junction type (JFET)	photographic	A12-L01
oil proofing, resinous	F03-C02	metal oxide,	polymeric	A12-S06+
	A12-L03A	semiconductor type	polymeric in paper	A12-W06+
optical	F04-G01	(MOSFET)	slitting or splitting to fibres	A11-B02 F01-C05
		Filament winding for FRP	treatment	A12-S06B
physical characteristics,	F01-E+	Filaments of polymers	tubular, production	A11-B07A A12-S06A
others			welding	A11-C01A1 A12-S06B G06-D01
pill resistant - see crease		Filaments, artificial		
resistant finish		associated process in	X-ray	
polymer coatings on	A12-B02+	production		
polymeric in paper	A12-W06+	by spinning	Films of	
processes (textile)	A11-C05+		polyamide	A05-F01E3
production (general)	A12-S05L	Filariasis treatment	polyester	A05-E01D3
products other than in			polyethylene	A04-G02E2
fabric form	F04-G+		polypropylene	A04-G03E1
reactive dyes for polymers	A08-E03+ F03-F19			

saturated polyester	A05-E01D3	windows	L02-D15	Fixtures, building	A12-R02+
Filtering		Fire-retardants - see		Flakes	E12-A14
devices for liquids	J01-F02D	fireproofers above		Flaking, detergents	D11-D03
engine exhaust gases	H06-C04A	Fireclay refractories	L02-E02	Flame (plasma) spraying	
for removal of specific	J01-F04X	Fired clay, polymer coated on	A12-B08	refractories and ceramics	L02-A06
substances	J01-H02	Firelighters	H09-F	Flame cutting and scarfing	M23-C
materials	M22-G03G	Fireproof		Flame laminating of fabrics	F03-D02
molten metal		coating compositions	G02-A05D	Flame polishing	A11-C04
molten metal, iron or	M24-A05	compositions	A12-G01	Flame proofers	A08-F+
steel (or alloy)	M24-C		A12-W12	Flame proofing of wood	F05-B
			F03-C03+	Flame retardance of polymers	A09-A01
molten metal, non-	M25-F		G04-B06	Flame retardants	A08-F+
ferrous (or alloy)	M25-J	Fireproofers	A08-F+	additives	A08-F+
water	D04-A01E	for fabrics, non-resinous	A12-S05R	aluminium hydroxide	A08-F05
	D04-A01F	for fabrics, resinous	F03-C03+	antimony containing	A08-F02
Filters	A12-H04		A12-G01	for electrical devices	L03-J03
gas	F04-E05+		F03-C03+	general	A08-F01
waste gas	J01-G03	Fireworks	K04-C	halogen containing	A08-F04+
air inflow	J01-G03B	Firing ceramics and refractories	L02-A04	halogen containing, non-	
gravity	J01-G03C	Fish		polymeric (cyclo)aliphatic	A08-F04C
LCD	J01-F02A	animal feeds from	D03-G05	halogen containing, non-	
liquid, with mobile element	J01-F02C	cells	B04-F07D	polymeric aromatic/	
micro	J01-C04		C04-F07D	heterocyclic	A08-F04B
nano	J01-C04	degutting	D02-A02	halogen containing,	
optical	A12-L03D	extracts	D02-A03A	polymeric	A08-F04A
photographic	G06-A02	flakes	D02-A03A	others (specific)	A08-F
regeneration	J01-H01	meal	D02-A03A	phosphorus containing	A08-F03
	J01-G03A	pastes	D02-A03A	textile finishes, non-	
ultra	A12-W11A	processing	D02-A	resinous	A12-S05R
	J01-F02A	products	D02-A03		F03-C03+
	J01-C04	products, preservation	D03-A02	textile finishes, resinous	A12-G01
		repellents	B12-N06		F03-C03+
			B14-B13		
Filtration			C12-N06	Flame spraying	
in tests	B11-C08D3		C14-B13	coating with polymer by	A11-B05B1
	C11-C08D3			metal	M13-C
of gases	J01-G03	residues removal from		Flame treatment of polymer	
of liquids	J01-F02	waste water	D04-B04	surfaces	A11-C04
of water for purification	D04-A01E	roe	B04-B04N2	Flame welding	M23-B
	D04-A01F		C04-B04N2	torches, burners, gas	
	D04-B10		D02-A03A	supply	M23-B01
purification of polymers	A10-G01+	waste, protein recovery from	D03-F04	Flame-proofing fabrics	A12-G01
separation in petroleum		whole, processing	D02-A02		A12-S05R
processing	H02-D04	Fishing	A12-F01		F03-C03+
Fine particle structure of		lines	A12-F01	Flammability properties	A09-A01
polymers	A12-S09+	nets	A12-P07	Flanges of pipes	A12-H02C
Finely divided solid			A12-W04	Flanging sheet metal	M21-E01
surfactants for polymers	A08-S+	rods	A12-F01	Flash	
Finger nails, false	A12-V04	Fishing tools (drilling		spinning	A11-C05C1
	D08-B01	equipment)	H01-B07	Flash evaporation	A10-G01+
Finishing of		Fittings		Flash extrusion of e.g.	
fibres, yarns	F01-H06+	building	A12-R02+	plexifilaments	F01-C07B
polymers	A11-C+	for hoses	A12-H02C	Flat glass formation	L01-D
Finned tube production	M21-C	for pipes	A12-H02C	Flat platens, pressing between	A11-B13
Fire detectors, alarms	A12-R02	for tubes	A12-H02C	Flattening agents	A08-E
Fire extinguishing compositions	A12-W12	Fixed enzyme processes,		inorganic	A08-E02
	K01-A	general	D05-A01C	organic	A08-E03C
Fire extinguishing of oil wells		Fixing biological substances	A12-W11L	Flattening monofilaments by	
by capping	H01-G02	to a carrier	D05-H10	calendering	A11-B03
using explosives	H01-G01	Fixing devices for dentures	D08-A03	Flatulence treatment	B12-J03
fire retardant material	H01-G03	Fixing processor rollers,			B14-E03
Fire resistant boards, blocks,		electrophotographic	G06-G08C		C12-J03
blankets	L02-D15A	Fixing, photographic			C14-E03
materials	L02-D15A1	black and white silver			
Fire-fighting compositions	A12-W12	halide	G06-G02		
	K01-A	colour	G06-G12		
Fire-resistant walls and					

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	D03-H01B	Flue dust metal extraction		Fluorination	A10-E04A
special form	D03-H01D	ferrous	M24-A07A	Fluorine catalysts	N04-D
natural	D03-H01C	non-ferrous	M25-E	Fluorine containing	
Flaw, detection compositions	G04-B09	Fluid conduction, tubes for	A12-H02+	ether, monoolefinic	
Flexible foams	A12-S+	Fluid detergent compositions	D11-D07 D11-D07D	(co)polymers	A04-E10C
Flexible sheet for thermal and acoustic insulation	A12-R06 F04-E06 L02-D15C	dishwashing detergents		inorganic compounds, removal from water	D04-B07E A04-E10+
Flexographic printing plates	A12-W07C G05-A02	laundry detergents with bleach (stain removers)	D11-D07C3	monoolefinic (co)polymers	
Flints	K04-B02	laundry detergents with special use	D11-D07C	resin fibres, chemical features of	F01-D10
Float glass baths	L01-D03	Light duty liquid		Fluorine or derivatives - see also Halogen or derivatives	
bath chambers	L01-D03A	laundry detergents	D11-D07B	Fluoro - see also Halo	
glass treatment in baths	L01-D03B	soap type (hand washing compositions)	D11-D07F	Fluoroacrylates	
Float glass production	L01-D03	Fluid jets, entangling		(co)polymers	A04-E10D
Float glass thickness control	L01-D03C	non- woven fabric	F02-C02+	monomer	A01-D10 A01-D12
Floats, foam use in	A12-S04E	Fluidised bed		Fluorocarbon fibres, chemical features	F01-D10
Flocculants		coating by	A11-B05A	Fluorocarbon polymer	A04-E+
acrylic	A12-M01	heat treatment of iron		membranes for	
for pollution control	A12-W11E D04-A01B D04-B10	and steel	M24-D02C J04-X03A	electrolysis	J03-B03A
polymeric	A12-M+	reactor		Fluorohydrogenated polymers	A10-E04
Flocculation of		Fluidising additives for concrete	L02-D14E	Fluorohydrogenation	A10-E04
polymers	A10-G01B	Fluids, functional	A12-W02+ H08-D05	Fluoroplasts	A04-E+
sewage and water	D04-A01B D04-B09	Fluorene	B08-D03 C08-D03 E08-D03	Fluorosilicates	E31-P04
Flocking, fibre	F03-D03	Fluorescence tests	B11-C07B3 C11-C07B3 J04-C02C	Fluorostyrenes	
polymer coating by	A11-B05B	Fluorescent brighteners	D11-B01 E24-A E24-A04	(co)polymers	A04-C A01-D02
Flood lighting	A12-E11	benzoxazole type	E24-A02 E24-A04B	monomer	
Flooding, well	A12-W10B H01-D06	coumarin type	E24-A02 E24-A04B	Fluorosulphonated polymers	A10-E12B
alkaline	H01-D06E	other types (specific)	E24-A03 E24-A04C	Fluorosulphonation	A10-E12B
brine	H01-D06A	stilbene type	E24-A01 E24-A04A	Fluxes (polymer use)	A12-W12F
carbon dioxide	H01-D06C	Fluorescent ceramic oxides	L02-G10A	Fluxes for	
polymer	H01-D06D	Fluorescent compositions for screens	L03-C02B	iron and steel melt	
steam	H01-D06B	Fluorescent dyes	E24-A E24-A05	treatment	M24-C07
Floor coverings (see also carpets)	F04-B02	Fluorescent semiconductor compositions	L03-G	ironmaking	M24-B01
Flooring	A12-R03 L02-D09	Fluorescent tracers bound to antibody or antigen	B11-C07A5 C11-C07A5	non-ferrous metal	
Floppy discs	A12-E08A2	Fluoride, vinyl		production	M25-C
Floss, dental	A12-V04B D08-B08E	(co)polymers	A04-E10A	removing	D11-D01B2
Flotation		monomer	A01-D12	soldering	M23-A02
extraction in metallurgy	M25-A01B	Fluoride, vinylidene		steelmaking	M24-B02
separation of solids	J01-K03	(co)polymers	A04-E10B	welding	M23-F
water treatment	D04-A01L D04-B09	monomer	A01-D12	Flyer spinning	F01-G02
Flour	D01-B	Fluorides	B05-C L02-H	Flywheels	A12-H
additives	D01-B01			Foam	A12-S+ B12-M11S C12-M11S E12-A10 A11-B05E A12-B07B
Flow				coating process	
mixers	J02-A02A			coatings on polymer	
promoters	A08-M06			compositions for dyeing/ printing fibres	F03-F26
Flowers	B04-A07D5 C04-A07D5			in-place polyurethane	A12-S02A
artificial	A12-F			inhibitors, for detergents	D11-B08
extracts	B04-A10C C04-A10C			inhibitors, for polymer	A08-S03
				making equipment/process	A11-B06+
				polymeric	A12-S+
				polymeric, in paper making	A12-W06+
				polymeric, polyolefins	A12-S04A2
				polymeric, polystyrene	A12-S01+
				polymeric, polyurethane	A12-S02+

promoter for detergents	D11-B08	Forged products	M21-K	Free radicals	
stabilisers (surfactants)		Forging metal sheets, wires,		organic	B10-A01
for polymers	A08-A07	rods, tubes or profiles	M21-J		C10-A01
thermosets	A12-S03	control devices	M21-J03		E10-A01
Foamback		equipment	M21-J02	polymerisation catalysts	A02-A03
carpets	A12-D02	processes	M21-J01	scavenger	B14-S08
fabrics and garments	A12-C01	Forks	A12-D03		C14-S08
Foamed		Formal, polyvinyl	A10-E02	Freeze drying	J08-F04
adhesives, use of	A11-C01+	Formaldehyde	E10-D01	coffee	D03-D01B
	G03-B03	(co)polymers	A05-H02+	tea	D03-D02B
clay	L02-B05	acetone polymer	A05-J08	Freezing	
ferrous alloy	M24-D06	condensant	A01-E09	apparatus	J07-C
fibres	F01-E	toluene resin	A05-J08	food	D03-H02A
glass, manufacture	L01-F07	Formalin condensant	A01-E09	liquids and semiliquids	J07-B
metal (general)		Formamide	E10-D03C1	spun fibres	F01-C
production	M22-G03K	Formic acid	E10-C04J	water treatment by	D04-A01C
non-ferrous alloy	M29-D		E10-C04J1	French polish	G02-B05
polymers - see also	A12-S+	production	E10-C04J1P	Frenolicin	B02-F
Expanded polymers	L02-D15	use	E10-C04J1U		C02-F
silicate insulating material		Formica ®	A12-A04A	Fresnel lenses	A12-L02A
Foaming agents	A08-B+	Forming		Friction	
Foaming polymers		by dipping	A11-B04B	coatings	M13-K
general	A11-B06	fabrics	F03-A01	material	A12-H10
involving extrusion	A11-B06B	from sheet or tube	A11-B08+		G04-B04
involving moulding	A11-B06C	from sheet or tube,		material, ceramics	L02-G08
involving other specific		forming from tube or pipe	A11-B08C	reducing material	A12-H10
methods	A11-B06D	from sheet or tube,		welding	M23-E01
to form specific goods	A11-B06A	forming of sheet or film		Fried foodstuff	D03-H01U
with crosslinking	A11-C02D	(excluding by vacuum)	A11-B08B	Friedel-Crafts	
Fodder	A12-W04	from sheet or tube, general	A11-B08+	catalysts	N04-D01
	D03-G	from sheet or tube,		catalysts, for	
Foetus extracts	B04-B04H	vacuum assisted forming		polymerisation	A02-A04
	C04-B04H	sheet/film	A11-B08A	crosslinking agents	A08-C+
Foils		high energy rate	M21-D		A08-D+
carriers for adhesives	G03-B04	paper	F05-A05B	resins	A05-J
metal, production	M21-A03B	polymers (general)	A11-B+	Frost protection	
polymer	A12-S06+	pores (foaming polymers)	A11-B06+	concrete additives	L02-D14C
Foliar application	C12-M13	sheet metal	M21-E	for plants	B12-P10
Follicle stimulating		sheet, strip, tube	A11-B08+		C12-P10
hormones (FSH)	B04-B02D4	vacuum type	A11-B08+		C14-T01C
	B04-J05H	Foundation garments	F04-C01	Frith flotation (extraction	
	C04-B02D4	Foundry cores, moulds	A12-A02	metallurgy)	M24-A01
	C04-J05H	Foundry moulding	M22-A		M25-A01
Food	A12-W09	mould material handling/		FRP	A12-S08+
	D03-H	dressing	M22-B	Fruit	B04-A09K
	D03-J	moulding compositions	M22-A01		C04-A09K
	D03-K	moulding machines	M22-E	Fruit drop treatment	B12-P03
cellulose ether use in	A03-A04A1	moulds/cores	M22-D		C12-P03
coated	D03-H01S	patterns	M22-C		C14-U01B
coatings on	A12-B	Fountain pens	A12-D05B	Fruit extract	B04-A10K
colorant (natural)	D03-H01E1	Fourdrinier wires	F04-E05A		C04-A10K
colorant (synthetic)	D03-H01E2	Fractional distillation	A10-G01+	Fruit juice	D03-H01G1
defrosting	D03-K12		B11-B	Fruit preservation	D03-A04
instant	D03-H01L	Fracturing, well	C11-B	Fruit setting agents	B12-P03
high calorie	D03-H01T4		D05-D		C12-P03
nuclear applications to	K09-D	Frames, spectacle	A12-W10B		C14-U01B
packaging	A12-P+		H01-C03	Fruit thinning agents	B12-P03
preservation	D03-H02	Francium catalysts	A12-L03		C12-P03
Football	A12-F01B	Francium compounds	N03-A		C14-U01B
Footpaths	A12-R09		B05-A04	Fruit, machines for	
Footwear	A12-C04		C05-A04	coring	D03-J06
	F04-C05A	inorganic	E35-Y	cutting	D03-J06
production	F04-F02	organic	E05-Q	peeling	D03-J04
sports	A12-F01			pulping	D03-J06
Forge welding	M23-E01				

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)		Fumaric acid		stationary, with	
	B04-B02D4	(co)polymers	A04-F05	mechanically moved charge	J09-A02
	B04-J05H	monomer/condensant	A01-D08	with stationary charge	J09-A01
	C04-B02D4		A01-E12	Furnace furniture for	
	C04-J05H	Fumaric ester		semiconductor processing	
Fuel	A12-T03+	(co)polymers	A04-F07	- including boats, racks,	
as briquettes	H09-F01	condensant	A01-E12	crucibles, wafer supports etc.	L04-D09
oils	H06-B05	monomer	A01-D10	Furnaces for	
emulsion	H06-B09			calcining ceramic raw	
filtration	J01-F04X4	Functional fluids	A12-W02+	material (rotary)	L02-A02
production	H06-P		H08-D05	cement clinker (rotary)	L02-C02
propellants, explosives	A12-T03+	polymeric additives	A12-W02A	glass	L01-C
rocket	A12-T03C	Fungi	B04-B02B2	glass, construction and	
	K04-C01		C04-B02B2	design	L01-C02
recycling	H06-X03		D05-H05	glass, control and operation	L01-C03
separation	H06-X02	Mushroom extracts	B04-A10A	heat treatment of	
treatment	H06-X01		C04-A10A	ferrous metals	M24-D04
combustion exhaust	H06-C+	Mushrooms (whole)	B04-A08D	heat treatment of non-	
treatment			C04-A08D	ferrous metals	M29-C02
Fuel additives	A12-T03+	Pichia pastoris	B04-F09D	heat treatment of	
	H06-D		C04-F09D	semiconductors	L04-D05
methacrylate copolymer in	A04-F06E3	recombinant	D05-H14A2	metal casting	M22-G03G
petroleum fuel	A12-T03B	Toadstools (whole)	B04-A08D	metal working	M21-N04
production	H06-P		C04-A08D	sintering ceramics,	
rocket fuel	A12-T03C	unicellular	B04-F09	refractories	L02-A04
Fuel cells (electrical)	A12-E06+	yeast	C04-F09	Furnishings	A12-D01
	L03-E04		B04-F09	F04-D+	
alkaline	L03-E04D	Fungicides	B12-A02C	foam use in	A12-S04D
bio	L03-E04K		C12-A02C	Furniture	A12-D01
component production	L03-E04H+	fabric treatment	A12-S05R	foam use in	A12-S04D
electrodes	A12-E06A		F03-C02B	Fused and Cast refractories	L02-E08
	L03-E04B	general	B14-A04	Fuses (detonators)	K04-B01
flow field plate	L03-E04L		C14-A04	Fuses, electrical	A12-E07
fuel storage for	J06-B06A	photographic	G06-H02		L03-B04D
hydrogen generation	L03-E04I	polymer additives	A08-M02	Fuses, semiconductor	L04-C10A1
hydrocarbon based	H08-E04	use of polymers	A12-W04C	Fusidic acid	B02-F
hydrogen oxygen	L03-E04F	wood treatment	F05-B01	C02-F	
Molten carbonate	L03-E04C	Fungistat see Fungicides		Fusing mechanisms	K03-A03
Phosphoric acid	L03-E04E	Fur, artificial	F04-B03	Fusing of glass to	
separators	L03-E04G	Furan resins	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
Fuel, nuclear	K05-B04	tetrahydrofuran)	B07-A01	Fusion genes	D05-H12C
chemical production	K05-B04A		C07-A01	encoding altered fusion	
element construction	K05-B04B	Furfural	E07-A01	protein	B04-E02H
recovery, reprocessing	K06-C	condensants	A01-E10	encoding wild-type fusion	
storage	K05-B07B	resins	A05-J08	protein	B04-E03H
transport/storage containers	K07-A02A	Furfuraldehyde condensants	A01-E10	encoding altered fusion	C04-E02H
Fuels		Furfuryl alcohol		protein	C04-E03H
Liquid, derived from waste		condensants	A01-E14	Fusion proteins	B04-N08
polymer	H06-B06	derived resins	A05-J		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				
containing hetero atom(s)	B05-U01	Furnace black	E31-N		
	E05-U01	filler	A08-R03		
Falmerene	E05-U02				
Falmerenes	B05-U02				

G

G-protein coupled receptor	B04-K01Y	holders of variable capacity	J06-A	preparation	H04-D
	C04-K01Y	lifting equipment (oil/gas production)	H01-D02	preparation, catalysts	H04-F02D
Gadolinium compounds	B05-A03B	liquefaction	J07-D01	Gassing solids	J01-G05
	C05-A03B	liquid mass transfer	J01-A02	Gastric disease treatment	B14-E10B
	N03-A02B	masks	A12-C02		C14-E10B
	E34-E02B	particle separation	J01-G+	Gastric secretion depressants	B12-J02
Galactomannan gums	E05-P	phase (co)polymerisation	A10-B		B14-E07
	A03-A+	plating by decomposition or reduction	A10-C+	stimulants	C12-J02
	B04-C02D	plating by decomposition or reduction, apparatus	A10-D+		C14-E07
	C04-C02D	plating by decomposition or reduction, by glow or arc discharge	M13-E		B12-J01
Gall extracts	D06-H	plating by decomposition or reduction, by thermal decomposition or reduction of gases on heated surfaces	M13-E07		B14-E11
	B04-B04H	plating by decomposition or reduction, post treatment of coatings	M13-E05	Gastrin	C12-J01
	C04-B04H	plating by decomposition or reduction, pre-treatment of substrates		Gastritis treatment	C14-E11
Gallium arsenide (semiconductors)	L04-A02A	plating by decomposition or reduction, to form inorganic coatings on metal	M13-E06		B04-J12
Gallium catalysts	N03-G04	plating by decomposition or reduction, to form metallic coatings		Gastrointestinal dysfunction treatment	C04-J12
Gallium compounds	B05-A01B	plating by decomposition or reduction, to form organic coatings on metal	M13-E08		B14-E10B
	C05-A01B	sensitive resistors			C14-E10B
	E35-F	sensors	M13-E04	Gastropodocides	B12-J01
	E05-D	separation			B14-E10
Gallium phosphide (semiconductors)	L04-A02B	separation of dispersed particles from separation, by solidification or liquefaction	M13-E03		C12-J01
Galvanising of metal	M13-A	sorption	L03-B01A4		C14-E10
Games equipment	A12-F01+	solvents	J04-C04A	Gates	B12-N04
Gamma globulin	B04-B04A6	sorbent for storage	J01-E03	Gathering lines (oil and gas)	B14-B12
	B04-G01	vessels for		Gear wheel crimping of fibres	C12-N04
	C04-B04A6	Gaseous blowing agents	M13-E02	Gears	C14-B12
	C04-G01	process	M13-E01	Gelatin	A12-R02
Gamma ray detector	K08-A03	Gaseous etching of metal, compositions	M13-E03		H03-A
Ganglion blockers	B12-F03	Gaseous fuel based on petroleum or natural gas	M13-E03		F01-H04C
	B14-F01F	solid carbonaceous material	L03-B01A4		A12-H03
	C12-F03	Gaseous lubricants	J04-C04A		A03-C01
	C14-F01F	Gasification of liquids	J01-E03		B04-B04A6
Ganglioplegics	B12-F03	petroleum feedstock	J01-E02B1		B04-N02
	C12-F03	solid carbonaceous materials	J01-E03C1		C04-B04A6
Gangliosides (no structure)	B04-B01B	Gaskets	J06-B06		C04-N02
	C04-B01B	Gasoline	J06-B06C		D03-F
Gap fillers for magnetic heads	L03-B05N	as product, including additives	J06-B		G03-A
Garbage fermentation	D05-A04A			Gelation inhibitors	A08-C06
Gardening	A12-W04+				A08-D+
	A12-C+			Gelled food products	D03-H01J
Garments	A12-C03			Gelling agents	A08-M06
	F04-C+			Gels	A12-S
	F04-C04				B12-M02
	F04-C				C12-M02
fastenings	F04-F01				E12-B08
				teeth cleaning	D08-B08C
linings				teeth whitening	D08-B14C
manufacture				Gels/hydrogels	B12-M02G
Garnets	L03-B02B3				C12-M02G
Gas				Gemstones, artificial	L02-G08
	K04-C			Gene analysis	B11-C08F
attack compositions	A08-B04				C11-C08F
blowing agents for polymers	J01-E03A			Gene delivery methods	B12-M19
chromatography	K05-A02A				C12-M19
cooled reactors				by non-viral methods	B12-M19B
discharge from pressure vessels	J06-B04			by viral methods	C12-M19B
discharge from vessels not under pressure	J06-B05				B12-M19A
drying	J01-E01				C12-M19A
drying of solids	J08-H01			Gene libraries	B11-C10C
filling of pressure vessels	J06-B03				C11-C10C
generation (for blasting or propulsion)	K04-C02			Gene therapy	B14-S03A
					C14-S03A

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 D11-D01A L01-H04B D11-D01C L01-G11 L01-A	coatings of inorganic material	L01-G04G2
Genetic engineering	A12-W11L D05-H D05-H19 D05-H18B D05-H18A D05-H18 D05-H19A	bound to enzyme	D05-A01A5	coatings of metallic material	L01-G04G3
biological materials used in nucleic acid amplification	D05-H18B	ceramic seals	D11-D01A	coatings with organic (plastic) material	L01-G04G1
DNA sequencing method	D05-H18A	cleaners	L01-G11 L01-A	Glass-ceramics	L02-J02A
new methods	D05-H18	compositions	L01-A	applications	L01-K03
restriction enzymes used for	D05-H19A	encapsulation of semiconductors	L04-C20B	compositions	L01-A08
Genomics	B11-C08F+ C11-C08F+	etching	L01-G05C A08-R04	manufacture	L01-K02
Gentamycin	B02-G C02-G	fillers, reinforcing agents	L01-G05C A08-R04	Glass/ceramic composites	L02-J02A
Geological and geophysical exploration	H01-A01	film deposition in optical fibre manufacture	L01-F03F3	Glasses (spectacles)	A12-L02A A12-V02A
Geothermal heat transfer	J08-D07	finished product handling	L01-J	Glasses	
Geriatric treatment	B12-G04A B14-J01A4 C12-G04A C14-J01A4	flakes, powders or microspheres	A08-R04	Metal coatings, processes	M13-F03B
Germ cells	B04-F03 C04-F03	flat, manufacture	L01-D	Glasshouses	A12-W04A
Germanium		foamed	L01-F07	Glassy metals	
catalysts	N03-G02	furnaces for	L01-C	Compositions	M26-C01
production	M25-G12	heat treatment	L01-G02	Production	M22-G03M1
Germanium compounds	B05-A02 C05-A02 E35-G E05-F02A	hollow ware manufacture	L01-E	Glaucoma treatment	B12-L04 B14-N03A C12-L04 C14-N03A
inorganic	E35-G	laminates	L01-H02	Glazes	L01-H08
organic	E05-F02A	layer formation by vapour deposition	L01-F06	Glazing	
Germicides	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01 D09-A01 F03-C02B G02-A03B F05-B01	manufacture, general	L01-C	in building	A12-R04 L01-L01
for fabrics	F03-C02B	manufacture, general, by sol-gel process	L01-C06	in vehicles	A12-T04A L01-L02
for paints	G02-A03B	metal seals	L01-H04A	Glazing ceramics, refractories or concrete	L02-A07
for wood	F05-B01	micro-beads	L01-F04	Globulin	B04-B04A6 B04-N02 C04-B04A6 C04-N02
Gibberellic acids	B04-B02A C04-B02A	passivating layers for semiconductors	L04-C12D	Glomerulonephritis	B14-N10 C14-N10
Gibberellins	B04-B02A C04-B02A	patterning	L01-G05B	Glomerulonephro- pathy	B14-N10 C14-N10
Gingivitis treatment	B12-L04 B14-N06B C12-L04 C14-N06B	photographic supports	G06-B	Gloves	A12-C03 F04-C05 A12-C02A D09-C K07-A02
Ginning	F01-A02	polishing	L01-G06	protective	
Gland extract	B04-B04G C04-B04G	polymer coatings on	A12-B05 L01-G04B A12-W12G	Glucagon	B04-J03B C04-J03B
Gastric juices	B04-B04G C04-B04G	polymer use in rod and sheet manufacture	L01-F03F4	Glucose	B10-A07 C10-A07 D06-G E10-A07
Snake venom	B04-B04G	for optical fibre preforms	L01-L02	Glue	A12-A+ G03-A
		recycling	L01-F02	Glueing of polymers	A11-C01+
		rod, tube manufacture	L01-F04	Glutamic acid condensants	A01-E04
		shaping to special form	L01-H03		
		solders	L01-H03		
		soot deposition for optical fibre manufacture	L01-F03F2		
		soot manufacture	L01-F03F2		
		Glass coatings	G02-A05K L01-G04 L01-G04F		
		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+	Granular laundry detergent	D11-D08
Glutathione	B04-C01A B10-B02D C04-C01A C10-B02D	Glycosidase agonists	B14-L01A3 C14-L01A3 B14-D07B C14-D07B	Granulating detergents	D11-D03
Gluten	B04-B04A4 B04-N01 C04-B04A4 C04-N01	inhibitors	B14-L01A3 C14-L01A3 B14-D07B C14-D07B	Granulation	A11-A04 J04-A05 A11-C03A
Gluten free dietary foods	D03-H01T5	Glycosides (structure unknown)	B04-A07E C04-A07E	scrap recovery by	
Glycerine - see glycerol		Glycosides as surfactants	D11-A03B	Granules	B12-M11D C12-M11D
Glycerol	E10-E04H1	Glyptal resins	A05-E08	(pre)heating of of polymers	A11-A02A A12-S09+
condensants	A01-E14	Gob (glass) formation	L01-F02	Graphic arts masking	G06-E02
derived polyether plasticisers	A05-H A08-P	Goggles	A12-C02	Graphite	E31-N G01-A11 L02-H04
Glycidol condensants	A01-E07 A01-E14	Gold catalysts	N02-E N02-E04	electrodes for arc melting	L03-A02
Glycidoxypolytrimethoxy silane adhesion improver	A08-M01D	Gold compounds	B05-A03B C05-A03B E35-B E05-N E05-N03B	electrodes for batteries	L03-E01B3
Glycidyl		inorganic		fibres, chemical features of or production	F01-D09A
acrylate, (co)polymers	A04-F06+ A05-A04	organic	E05-N E05-N03B	fibres, filler/reinforcing agents	A08-R03A
acrylate, condensants	A01-E07	Gold production	M25-G20	non-fibrous filler/ reinforcing agents	A08-R03
acrylate, monomers	A01-D10B	Golf equipment	A12-F01+	Graphitisation	
acrylic esters, (co)polymers	A04-F06+ A05-A04	1,4-Gonadienes	B01-B03 C01-B03	of carbon fibres	E31-N02 A10-E05B
acrylic esters, condensants	A01-E07	Gonadienes (two ring "A" double bonds other than 1,4)	B01-B04 C01-B04	of polymers	
acrylic esters, monomers	A01-D10B			Grass	B04-A07D4 B04-A08C2 C04-A07D4 C04-A08C2
allyl ether monomer/ condensant	A01-D11 A01-E07	Gonadotropin-releasing hormone	B04-J07 C04-J07	Gravel packing (well treatment)	H01-C08
alpha-chloroacrylate, (co)polymers	A04-E A05-A04	Gonanes (saturated ring "A")	B01-D02 C01-D02	Gravity filters	J01-F02A
alpha-chloroacrylate, condensants	A01-E07	Gonorrhea treatment	B12-A05 B14-A01A5 C12-A05 C14-A01A5	separation of particles from gases	J01-G02
alpha-chloroacrylate, monomers	A01-D10			Gravure printing plates	G05-A03
compound epoxy resins	A05-A+	Gout treatment	B12-G03 B14-C02 C12-G03 C14-C02	Greases	A12-W02+ H07-C
cyanoacrylate, (co)polymers	A04-D A05-A04			Green chemistry	B14-Y C14-Y E11-K03
cyanoacrylate, condensants	A01-E07	Gowns, surgical	A12-V03C1 D09-C04D	Green food technology	D03-K13
cyanoacrylate, monomers	A01-D04 A01-D10	GR-N	A04-B04	Green food packaging	D03-K08A
ethers of alcohols (epoxy resins)	A05-A03	GR-S	A04-B03+	Green sensitive (electro)- photographic layers	G06-C14C
ethers of phenols (epoxy resins)	A05-A02	Grading devices for food	D03-K02	Greenhouses	A12-W04A
methacrylate, (co)polymers	A04-F06+ A05-A04	Graft copolymerisation	A10-C03+	Greying inhibitors for detergents (excluding bleaching agent)	D11-B05
methacrylate, condensants	A01-E07	by irradiation, bulk or solution	A10-C03C A10-C03B A10-C03A	Grinding	J02-B
methacrylate, monomers	A01-D10B	in emulsion/suspension onto formed substrates	B14-G02C C14-G02C	coffee	D03-D01C
Glycogenic	B12-J01 B14-E11 C12-J01 C14-E11	Graft rejection inhibitor	B14-G02C C14-G02C	food	D03-K
Glycol		Grain (cereal)	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	pigments/fillers	G01-B01
condensants	A01-E14	Grain (cereal), machines for treating	D03-J01	polymers	A11-A04
di(meth)acrylate, (co)polymers	A04-B09	Grains of polymers	A12-S09+	tea	D03-D02C
di(meth)acrylate, monomer	A01-C01	Gramophone records	A12-W01+	Grinding wheels, grindstones	A12-A03
ethylene	E10-E04H1	Granular (co)polymerisation	A10-B05	Griseofulvin	B02-G C02-G
ethylene, condensant	A01-E14			Ground	
Glycolides derived saturated polyester	A05-E02			consolidation	A12-A02
Glycolipid	B04-B01B C04-B01B			consolidation, in mining vehicles	A12-W10C A12-T+
				Ground polymers	A12-S09A
				Grounds, sports	A12-F01A

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 A01-E05
condensants	A08-C03 A08-D03 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

Gypsum board cement products

B04-A08C1
C04-A08C1
B04-A08F+
C04-A08F+
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
Haematinics	B12-H01 B14-F03 C12-H01 C14-F03
Haematopoietics	B12-H01 B14-F03 C12-H01 C14-F03
Haematosi treatment	B12-H01 B14-F03 C12-H01 C14-F03
Haemochromatosis treatment	B12-H01 B14-F03 C12-H01 C14-F03
Haemodialysis apparatus	J01-C03B1 A12-W11A
Haemoglobin	B04-B04D2 C04-B04D2
Haemolytics	B12-H02 B14-F04 C12-H02 C14-F04
Haemonchosis treatment	B12-B02 B14-B03A C12-B02 C14-B03A
Haemorrhoids treatment	B12-J04 B14-E04 C12-J04 C14-E04
Haemostatics	B12-H04 B14-F08 C12-H04 C14-F08
Hafnium alloys production	M26-B13 M25-G28
Hafnium catalysts for polymerisation	N03-B N03-B02 A02-A06+
Hafnium compounds	B05-A03B B05-A04 C05-A03B C05-A04 E35-L E35-Q E35-R E05-N E05-N01
inorganic	
organic	
Hair (or extracts)	B04-B04E C04-B04E

artificial (e.g. wigs)	A12-V04 D08-B01 F04-G	organic	B10-A02 C10-A02 E10-A02	chlorine bonded to aromatic ring	E10-H03C1 E10-H04C1
brushes	A12-V04A	Haloarylated/haloarylation of polymers	A10-E03	chlorine linked to aromatic ring	B10-H02E C10-H02E E10-H02E
care compositions	A12-V04A D08-B	Halochromic dye precursors	E26-B	chlorine only	E10-H03C E10-H03C2 E10-H03C3 E10-H03C4 E10-H03C5
conditioners	A12-V04A D08-B03B	Halogen			E10-H04C E10-H04C2 E10-H04C3 E10-H04C4 E10-H04C5
dyeing preparations	A12-V04A D08-B06	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		
		element production by electrical method	E31-B01		
		element production by non-electrical method	E31-B02		
rinsing preparations	D08-B04	element use	E31-B03		
shampoos	A12-V04A D08-B03	F, Br, I compound production	E31-B02C E31-B02A	fluorine (others)	B10-H02B C10-H02B E10-H02B
sprays	A12-V04A D08-B05	F, Br, I element production	B10-A02 C10-A02 E10-A02	fluorine and chlorine only	E10-H03B E10-H03B1 E10-H03B2 E10-H04B E10-H04B1 E10-H04B2
waving, straightening or fixing preparations	D08-B05	halides (organic)			
Hairpieces	A12-V04 D08-B01 F04-G	oxides	B05-C07 C05-C07 E31-C		
Halates		oxyacid (or salt)	B05-C07 C05-C07 E31-C	fluorine bonded to aromatic ring	E10-H03A1 E10-H04A1
Dihaloamines (organic)	B10-A02 C10-A02				
inorganic	B05-C07 C05-C07 E31-C	Halogen catalysts	N04-D	fluorine linked to aromatic ring	B10-H02A C10-H02A E10-H02A
organic	B10-A02 C10-A02 E10-A02	Halogen free volatile blowing agents	A08-B04B	fluorine only	E10-H03A E10-H03A2 E10-H03A3 E10-H04A E10-H04A2 E10-H04A3
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		
Cl element production	E31-B02B	Halogen-containing addition polymer coatings (paint)	A12-B01F	iodine (others)	B10-H02D C10-H02D E10-H02D
F, Br, I compound production	E31-B02C B05-C07 C05-C07	addition polymer for coating metal	A12-B04E	iodine linked to aromatic ring	B10-H02C C10-H02C E10-H02C
inorganic	E31-B02	aliphatic mono-unsaturated (excluding N) polymer	A04-E+		
inorganic production	E31-B03	flame retardants	A08-F04+		
inorganic use	B10-H02 C10-H02 E10-H02 E10-H03 E10-H04	Halogenated oils	B04-B01A C04-B01A	Halohydrocarbons, removal of	D04-B06E
organic		Halogenated waxes	B04-B01A C04-B01A	Halohydrogenated/ halohydrogenation of polymers	A10-E04
Halides (ceramic)	L02-H	Halogenated/halogenation of polymers	A10-E04A	Halonium, organic compounds	B10-A01 C10-A01 E10-A01
Halides of metal, catalysts for polymerisation	N04-D01 A02-A06B	Halogenation (process) for petroleum refining	H04-E14	Haloprenes including chloroprene (co)polymers monomer	A04-B08 A01-C04
Halides or oxyhalides of transition metals, catalysts		Halohydrocarbon volatile blowing agents	A08-B04A	Halosulphonated/ halosulphonation of polymers	A10-E12B
Halites		Halohydrocarbons containing bromine (others)	B10-H02D C10-H02D E10-H02D	Hammering metal sheet, wire, rod tube, or profile control devices equipment processes	M21-J M21-J03 M21-J02 M21-J01
inorganic	B05-C07 C05-C07 E31-C			Handbags	A12-T
organic	B10-A02 C10-A02 E10-A02	chlorine (others)	C10-H02C E10-H02C B10-H02F C10-H02F E10-H02F	Handkerchiefs	F04-C01
Hall effect devices	L04-E07			Handles (packaging)	A12-P
Halo-substituted styrenes (co)polymers	A04-C				
monomer	A01-D02				
Haloalkylated/ haloalkylation of polymers	A10-E03				
Haloamines					

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,			B14-F01	geothermal	J08-D07
moulded articles	A11-C06		C12-F01	media	H08-D09
polymers/plastics, raw			C14-F01	modification in heat	J08-D06
materials	A11-A	Heart disorder diagnosis	B12-K04A2	exchanger	J08-D04
textile webs	F03-K01		B12-K04G2B	Heat treatment	A11-A02+
Handrails	A12-R02		C12-K04A2		A11-B02+
Hands, artificial	A12-V02		C12-K04G2B	apparatus for ferrous metal	M24-D04
	D09-C01D	Heart extracts	B04-B04H	apparatus for ferrous	
Hapten bound to enzyme	D05-A01A3		C04-B04H	metal, furnaces for ingots	M24-D04A
Haptens	B04-B04C7	Heart valves, artificial	A12-V02	apparatus for non-ferrous	
	C04-B04C7		D09-C01C	metal	M29-C02
Hard alloys based on carbide,		Hearth steel processing	M24-B02B	apparatus for non-ferrous	
nitride, boride or silicide	M26-B12	Hearts, artificial	D09-C01C	metal, furnaces for treating	
Hard Candy	D03-E10A	Heat		strip wire or sheet	M24-D04B
Hard facing	M23-E03	collectors (polymer use)	A12-R02B	apparatus for non-ferrous	
Hard surface cleaners	D11-D01B	developable material for		metal, furnaces, coilers	M24-D04C
Abrasive types	D11-D01B3	photosensitive systems	G06-C08	apparatus for non-ferrous	
Household (other)	D11-D01B5	electrical use	A12-E10	metal, other furnaces	M24-D04D
Industrial	D11-D01B6	insulation	A12-R06	apparatus for non-ferrous	
Hardboard	A12-A04+		L02-D15	metal, quenching baths	M24-D04E
	F05-A07	insulation, for pipes	A12-H02D1	furnaces for semiconductor	
Hardeners for resins	A08-C+	insulation, for vehicles	A12-T04B	manufacture	L04-D05
	A08-D+	properties	A09-A01+	Heat treatment of	
Hardeners, photographic	G06-H14	sealing	A11-C01+	ferrous metal	M24-D02
Harsh abrasive oxides	L02-F04	setting	A11-B02+	ferrous metal, annealing	M24-D02B
Hats	A12-C03	setting, fabric	F03-A02	ferrous metal, cast iron	M27-B03
	F04-C05	setting, fibres	A11-B02C	ferrous metal, iron alloys	M27-B
Haul-off			F01-H05	ferrous metal, multistage	
after extrusion	A11-B07D	setting, film	A11-B02C	process	M24-D02D
of finished articles	A11-C06	setting, yarn	F01-H05	ferrous metal, specific	
preliminary processing	A11-A	sinks (electronics)	L03-G	articles	M24-D03
Hay	B04-A07D4	sinks for semiconductor		ferrous metal, steel alloys	M27-B04
	B04-A09H	devices	L04-C25	ferrous metal, surface	
	C04-A07D4	stabilisers	A08-A04+	hardening	M24-D02A
	C04-A09H	stabilisers, for fabrics	F03-C07	ferrous metal, using heat	
		stability of polymers	A09-A01A	treatment baths	M24-D02C
		sterilisation of food	D03-H02B	fibres	F01-H05
Haze	A09-A02	Heat exchanger	A12-W11G	glass	L01-G02
HDPE	A04-G02+	cleaning	J08-E	non ferrous metal or alloy	M29-C
Head boxes of paper making		control arrangements	J08-D05	non-ferrous metal or	
machines	F05-A04A	deposit prevention	J08-D02	alloy, apparatus	M29-C02
Headache treatment	B12-D01	direct contact	J08-B	non-ferrous metal or	
	B14-C01	elements	J08-D01	alloy, specific articles	M29-C01
	C12-D01	indirect contact	J08-C	polymers	A11-A02+
	C14-C01	modifying heat transfer	J08-D04		A11-B02+
Heads		nuclear plant	K06-B	semiconductors	L04-C16
magnetic	A12-E08A2	petroleum refining	H05-M	Heaters (electrical) polymer use	A12-E10
	L03-B05M	special features	J08-D03	Heating	
thermal inkjet	L03-G10B	with moving conduits	J08-C03	electrical	A12-E10
Healds	F02-A02	with stationary conduits	J08-C01		L03-H04A
Health foods		Heat pipes	J08-C04	elements used in	
diabetic	D03-H01T5	Heat sensitive		deodorization	D09-B01B
dietary fibre	D03-H01T1	materials (electrical)	A12-E10	fibres, fabrics	A11-A02A
gluten free	D03-H01T5	recording	A12-L05A	films/sheets, divided forms	A11-A02A
high calorie	D03-H01T4		G06-F08+	other forms	A11-A02B
low calorie	D03-H01T3	Heat storage	J08-S	Heating and cooling	A11-A02+
low carbohydrate	D03-H01T3B	compositions	A12-W11G	Heavy clay products	L02-G02
low fat	D03-H01T3A		J08-S01	Heavy concrete	L02-D02
other (not prebiotic,		devices	L03-H04A	Heavy duty cleaning agents	D11-D01B
not prebiotic)	D03-H01T2B		J08-S02	Heavy duty laundry detergents	D11-D07A
prebiotic	D03-H01T2A	devices, non-electric	A12-R02B		
probiotic	D03-H01T2A	Heat transfer			

Heavy metals		selective	B12-P06	spirofused	B06-S
compounds as disinfectants			C12-P06		C06-S
other than of food or air	D09-A01A	vegetable crop	C14-V02	Heterocyclics, mononuclear	B07
poisoning treatment	B12-J05C		C14-V02F		C07
	B14-M01D	Herbicides			E07
	C12-J05C	use of polymers	A12-W04C	containing "N" and "O"	
	C14-M01D			only	
removal from waste water	D04-B05	Het-acid condensant	A01-D08		B07-E
	D04-B05A		A01-E12		C07-E
waste encapsulation	L02-D	Heteroatom containing			E07-E
Heavy water	E31-A	monomers	A01-A00A	containing "N" and "S"	
	K05-B05A	Heterocyclic compound		and "O" only	B07-G
Heddles	F02-A02	catalysts	N05-D		C07-G
Helium (element)	B05-B02C			containing "N" and "S" only	E07-G
	C05-B02C	Heterocyclic compound			B07-F
	E31-J	containing phosphorus			C07-F
		with P-C bond	B05-B01E		E07-F
Helium compounds	B05-B02C		C05-B01E	containing "N" only	B07-D
	C05-B02C		E05-G01		C07-D
inorganic	E31-J	with P-halogen bond	B05-B01H		C07-E
organic	E05-K		B05-B01J	containing "O" only	E07-D
Helmets	A12-C02B		C05-B01H		B07-A
Hem(e) - see Haem-		with P-N bond	B05-B01J		C07-A
Heparin	B04-C02E		C05-B01J	containing "S" and "O" only	E07-A
	C04-C02E		E05-G04		B07-C
		with P-O (or S) bond	B05-B01M		C07-C
Heparin (optionally modified)	B04-C02E1		C05-B01M	containing "S" only	E07-C
	C04-C02E1		E05-G07		B07-B
Hepatic condition treatment	C12-G02	Heterocyclic compounds as			C07-B
Hepatic extracts	B04-B04H	disinfectants other than of		containing ring halogen	E07-B
	C04-B04H	food or air (excluding			B05-C07
Hepatitis treatment	B12-A01	D09-A01A+ D09-A01B)	D09-A01C	general	C05-C07
	B12-G02	Heterocyclic polymers			E05-K
	C12-A01	(excluding polyimides)	A05-J02		B07-H
	C12-G02	Heterocyclics, fused ring	B06	spirofused	C07-H
general or Non A Non B	B14-N12		C06		E07-H
	C14-N12		E06		B07-S
hepatitis A	B14-A02B3	containing "N" and "O"		Hexacene	C07-S
	C14-A02B3	only	B06-E		B08-A
hepatitis B	B14-A02A5		C06-E		C08-A
	C14-A02A5		E06-E		E08-A
hepatitis C	B14-A02B9	containing "N" and "S"		Hexachloroendo- methylene	
	C14-A02B9	and "O" only	B06-G	tetrahydrophthalic acid	
hepatitis D	B14-A02A8		B06-G	condensant	A01-D08
	C14-A02A8		C06-G		A01-E12
Hepatoprotectives	B12-G02		C06-G	1,4-Hexadiene	
	B14-N12		E06-G	(co)polymers	A04-B
	C12-G02	containing "N" and "S"		monomer	A01-C05
	C14-N12	only	B06-F	Hexafluoropropylene	
Herbal tea	D03-D03		C06-F		E10-H02B
Herbicide		containing "N" only	E06-F		E10-H03A3
antidote	B12-J05D		B06-D	(co)polymers	E10-H04A3
	B14-M01E		C06-D	(co)polymers, with TFE	A04-E10D
	C12-J05D		E06-D	monomer	A04-E09
	C14-M01E	containing "O" only	B06-A		A01-D12
	C14-V02A		C06-A	Hexahydrophthalic acid	
aromatic crop	C14-V02B		E06-A	condensant	A01-E12
cereal crop	C14-V00X	containing "S" and "O" only	B06-C	Hexamethoxymethyl melamine	A10-E08C
combating resistant weeds	C14-V02C		C06-C	Hexamethylene diamine	E10-B01E
fruit crop	B12-P05		E06-C	condensant	A01-E05
general and total	C12-P05	containing "S" only	B06-B	Hexamethylene diisocyanate	
	C14-V01		C06-B		E10-A14
oil crop	C14-V02D		E06-B		E10-A14A
ornamental crop	C14-V02E	containing ring halogen	B05-C07	condensant	E10-A14B
post-emergence	C14-V03A		C05-C07	Hexamethylene- tetramine	A01-E02
post-emergence, pre-			E05-K		B06-D17
emergence general	C14-V03	general	B06-H		C06-D17
pre-emergence	C14-V03B		C06-H	condensant	E06-D17
			E06-H		A01-E05

crosslinker for addition and ethylenically unsaturated (co)polymers	A08-C09	Holmium compounds	B05-A03B C05-A03B	HPLC	B11-C08D2 C11-C08D2
crosslinker for other polymers	A08-D03	catalysts	N03-A02B	5-HT agonist	B14-J03 C14-J03
Hexamine - see Hexamethylene- tetramine		inorganic	E34-E02B	5-HT antagonist	B14-J04 C14-J04
Hexane diamine	E10-B01E	organic	E05-P	Human growth hormone (hGH)	B04-J05 C04-J05
condensant	A01-E05	Holograms, holography	G06-D G06-E	Humic acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
1,6-Hexane diol condensant	A01-E14	materials for	L03-G04 L03-G04B9	Humus	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Hexene-1 (co)polymers	A04-G	Holomycin	B02-H C02-H	Huntingtons's disease treatment	B14-J01A4 C14-J01A4
monomer	A04-D13	Home furnishings of fabric	F04-D+	Husks from seeds	B04-A07D2 B04-A09F C04-A07D2 C04-A09F
Hexyl acrylate (co)polymers	A04-F06+	Homogenising of polymers	A11-A03+	Hybridisation tests (DNA) (process)	B11-C08E5 C11-C08E5
Hexylene glycol condensant	A01-E14	Homopolymerisation		Hybrid circuits	L04-F06
Hides (or extracts)	B04-B04E C04-B04E D07-A D07-B	addition	A10-B+	Hybridomas	B04-F05 C04-F05 D05-H15A
		condensation	A10-D+	Hydraulic fluids	A12-W02+ H08-D05
High calorie foodstuff	D03-H01T4	Honey	B04-D01A C04-D01A	Hydrazides of acrylic acids (co)polymers	A04-D04+ A01-D06
High density polyethylene	A04-G02+	Honeycomb structures	A12-R06	monomer	B05-C03 C05-C03 E31-H
High energy rate forming	M21-D	Hormonal activity general	B12-G04 B14-D01 C12-G04 C14-D01	Hydrazine	B10-A19 C10-A19 E10-A19 E10-A19A E10-A19B
High frequency welding of plastics	A11-C01+	Hormone inhibitor	B12-G01A B14-D02 C12-G01A C14-D02	Hydrazone	B10-A19 C10-A19 E10-A19 E10-A19A E10-A19B
High impact mixtures of polymers	A07-A+ A09-A05A	Hormone level determination	B12-K04A6 C12-K04A6	Hydride of metal, catalysts	N05-A
polystyrene	A04-C02+ A04-C02B1 A09-A05A	Hormones (activity)	C12-G04	Hydride, inorganic (general)	B05-C08 C05-C08 E31-A
High pressure addition (co)polymerisation	A10-B	Hormones (general)	B04-B02D B04-J01 C04-B02D C04-J01	Hydrin ®	A05-H04
High pressure polyethylene	A04-G02+	Horn (or extract)	B04-B04E C04-B04E	Hydrobrominated/ hydrobromination of polymers	A10-E04
High speed melt spinning	A11-B15B1 F01-C08B1	Horticulture	A12-W04+ A12-S04C	Hydrocarbon synthesis	H04-E05
High temperature detergents	D11-D01G	foam use in		Hydrocarbon- aldehyde (or ketone) condensates	A05-J08
High throughput screening	B11-C10A C11-C10A	Hoses (including tubes, pipes and fittings)	A12-H02+ F04-E	Hydrocarbons	B10-J C10-J E10-J
Highways, polymer use	A12-R09	fabric use	A12-H02C	aliphatic conjugated diolefinic, (co)polymers	A04-B+
Hinges, polymer use	A12-H06	linings and coatings	A12-H02D		
HIPS (high impact polystyrene)	A04-C02+ A04-C02B1 A09-A05A	reinforced	A12-H02B		
		unreinforced	A12-H02A		
Histamine agonist/mimetic	B14-L05 C14-L05	Hosiery	A12-C03 F04-C02		
Histaminergic	B14-L05 C14-L05	Hot dip metal coatings	M13-A		
Histoma treatment	C12-G07	Hot pressing			
Histomoniasis treatment	C12-B01	ceramic powders	L02-A04		
Histomonicide	B14-A03D C14-A03D	powder metallurgy	M22-H03C		
Hole manufacture in semiconductor processing	L04-C06C	Hot stamping of polymers	A11-C04C		
Hollow fibres	A12-S05A F01-E03	Hot tops	M22-G02B		
Hollow ware, glass, forming	L01-E	refractories for	L02-E06		
Hollow ware, glass, transfer mechanism for	L01-E07	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	A12-D+ A04-G02E3 A04-G03E1		
		polypropylene			

aliphatic conjugated diolefinic, monomers	A01-C05	catalyst for polymerisation	A02-A01	Hydrophobization treatment of fabrics	A12-G03
aliphatic non-conjugated di- or poly-olefinic, (co)polymers	A04-B+	crosslinker for addition (co)polymers	A08-C05		A12-S05R
aliphatic non-conjugated di- or poly-olefinic, monomers	A01-C05	crosslinker for other polymers	A08-D	Hydroquinone condensant	F03-C02A
aliphatic, monoolefinic, (co)polymers	A04-G+	redox polymerisation catalyst	A02-A03	Hydrotropes in detergent compositions	A01-E13
aliphatic, monoolefinic, monomers	A01-D13	Hydrogenated/hydrogenation of polymers	A10-E13	Hydroxamic acid (organic)	D11-B16
aromatic, diolefinic, (co)polymers	A04-B10	Hydrogenation processes	B11-C01		B10-A18
aromatic, diolefinic, monomers	A01-C03		C11-C01		C10-A18
aromatic, monoolefinic, (co)polymers	A04-C+	of unsaturated carbon-carbon (C-C) bonds	E11-D		E10-A18
aromatic, monoolefinic, monomers	A01-D03	of unsaturated carbon-carbon (C-C) bonds (catalytic)	E11-D01	Hydroxide	E10-A18A
blowing agents for polymers	A08-B04B	other than of unsaturated carbon-carbon (C-C) bonds	N07-B01		E10-A18B
cycloaliphatic, diolefinic, (co)polymers	A04-B	petroleum refining	E11-D02	Hydroxy acid based saturated polyesters	E31-D05
cycloaliphatic, diolefinic, monomers	A01-C05	Hydrogen production	H04-E08	Hydroxy acids condensants	A05-E02
cycloaliphatic, monoolefinic, (co)polymers	A04-G	Electrical methods	E31-A02A		A01-E11
cycloaliphatic, monoolefinic, monomers	A01-D13	In fuel cell	L03-E04I	Hydroxy acids, carboxylic	A01-E12
unsubstituted condensants	A01-E	Storage	E31-A02B		A01-E14
Hydrochlorinated/ hydrochlorination of polymers	A10-E04	Other	E31-A02C	Hydroxy condensants	B10-C04
Hydrocortisone	B01-C02	Hydrohalogenated/ hydrohalogenation of polymers	A10-E04		C10-C04
	C01-C02	Hydroiodinated/hydroiodination of polymers	A10-E04	Hydroxy group containing vinyl polymer based polyurethanes	E10-C04
Hydrocracking	H04-B03	Hydrolase	B04-B02C3		A01-E13
Hydroentangling of non-woven fabrics	F02-C02F		B04-L05	Hydroxy group incorporation in polymer (excluding hydrolysis)	A01-E14
Hydrofluoric acid polymerisation catalyst	A02-A04	agonists	C04-B02C3		A10-E23
Hydrofluorinated/ hydrofluorination of polymers	A10-E04	enzyme processes	C04-L05	Hydroxy group terminated polybutadiene	A10-E23
Hydroforming	H04-C03		B14-L01A3	Hydroxyalkyl (meth)acrylates (co)polymers	A04-F06+
Hydroformylation reaction	E11-F02A	inhibitors	C14-L01A3	monomer	A01-D10B
Hydrogels of polymers	A12-S		D05-A01B3	paints, coatings	G02-A02C2
Hydrogen			D05-A02C	Hydroxyamines condensants	A01-E05
as chain transfer agent element	A02-B		B12-G01B3		A01-E13
	B05-C08		B14-D07		A01-E14
	C05-C08		C12-G01B3		
	E31-A	production by fermentation	C14-D07	Hydroxybutyric acid based polyester	A05-E02B
halides (or salts)	B05-C07	Hydrolysed polymers	D05-C03C	Hydroxyethyl cellulose	A03-A04+
halides (or salts) production	E31-B02	ethylene-vinyl acetate copolymer	A10-E09+	Hydroxyethylamine condensant	A01-E05
halides (or salts) use	E31-B03		A10-E09A		A01-E14
manufacture (in petroleum refining)	H04-E06	polyvinyl acetate	A10-E09B	Hydroxylamine	B05-C03
sulphide (or inorganic salt)	B05-C05		A10-E09A		C05-C03
	C05-C05	Hydrolysis	A10-E09B		E31-H
sulphide (or inorganic salt) production	E31-F02	catalytic reaction	N07-F06	organic compounds	B10-A18
sulphide (or inorganic salt) removal from water	D04-B07D	fabric treatment	F03-C08		C10-A18
sulphide (or inorganic salt) use	E31-F04	non-ferrous metal extraction			E10-A18
Hydrogen catalysts	N05-A	of polymers	M25-B01		E10-A18A
Hydrogen peroxide	B05-C08	Hydrometallurgical extraction	A10-E09	1,4-Hydroxymethyl cyclohexane condensant	E10-A18B
	C05-C08	Hydroperoxide	M25-B		A01-E14
	E31-E01	aromatic	E10-A04B1E	Hydroxynaphthalene condensant	A01-E13
		catalyst for polymerisation	A02-A01		
		crosslinker for addition (co)polymers	A08-C05	17-Hydroxyprogesterones (excluding cortisones and cortisols)	B01-C03
		crosslinker for other polymers	A08-D		C01-C03
		organic non-aromatic redox polymerisation catalyst	E10-A04B2E	Hydroxypropyl cellulose	A03-A04+
			A02-A03		B04-C02A2
					C04-C02A2

Hydroxypropyl ethyl cellulose	A03-A04+ B04-C02A2 C04-C02A2	Hyposulphites inorganic	B05-C05 C05-C05 E31-F	I2L devices	L04-E06
Hydroxypropyl methyl cellulose	A03-A04+ B04-C02A2 C04-C02A2	organic	B10-A09C C10-A09C E10-A09C	Ice	
5-Hydroxytryptamine agonist	B14-J03 C14-J03	Hypotension treatment	B14-F02A C14-F02A	for special purposes production working and distribution	J07-B02 J07-B01 J07-B03
antagonist	B12-G01 B14-J04 C12-G01 C14-J04	Hypotensives	B12-F05 B14-F02B C12-F05 C14-F02B	Ice cream	D03-E08
Hydrovaleric acid based polyester	A05-E02B	Hypothalamo- hypophysial system treatment	B12-E01 C12-E01	coating	D03-E02
Hygiene	A12-V03C1 D09-A D09-C	Hypothermia treatment	B14-C05 C14-C05	packing	D03-E04
Hygroscopic fabric treatment	F03-C05	Hypothermics	B12-D08 B14-C04 C12-D08 C14-C04	shaping of	D03-E03
Hyoscyamine	B04-A01 C04-A01	Hypoxaemia treatment	B12-E01 B12-K06 B14-K01 C12-E01 C12-K06 C14-K01	Identification of fabrics fibres	F03-K02 F01-H
Hypalon ®	A10-E12B	Hytretl ®	A05-E09	Identity cards	A12-D G06-D
Hyperglycaemic	B14-F10 C14-F10			Igniters, chemical contact	K04-B02
Hyperopics	B14-J05B C14-J05B			IIL devices	L04-E06
Hypertensives	B12-F04 B14-F02A C12-F04 C14-F02A			IIR	A04-G05A
Hyperthermic	B14-C05 C14-C05			Image converters	L03-G10E
Hypertonia treatment	B12-C05 B14-J05A C12-C05 C14-J05A			formation by exposure to light, radiation etc.	G06-G18
Hypertriglyceremia treatment	B14-F06B C14-F06B			sensors, semiconductor stabilisers (photographic)	L04-E05A G06-H11
Hypnotics	B12-C07 B14-J01B1 C12-C07 C14-J01B1			toners	
Hypoallergic	B12-D02 B14-G02A C14-G02A			toners, electro-photographic	A12-L05C2 G06-G05 G06-G06
Hypoallergics	C12-D02			toners, non- electrophotographic	G06-H05
Hypoglycaemics	B12-H05 B14-F09 C12-H05 C14-F09			Imaging body parts for diagnosis	B12-K04C C12-K04C
Hypohalite inorganic	C05-C07 E31-C			Imaging methods, electrophotographic	G06-G08A
organic	B10-A02 C10-A02 E10-A02			using isotopes, tracers	K08-B01
Hypohalite (inorganic)	B05-C07			using X-rays	K08-E01
Hypoleukocytosis treatment	B12-G05 B14-H01A C12-G05 C14-H01A			Imbibition dye transfer systems, photographic	G06-G12
Hyponitrite polymerisation catalysts	A02-A02			Imidation, imidated polymers	A10-E14 A10-E17
				Imidazo-pyridines (three N-atoms)	B06-D08 C06-D08 E06-D08
				Imidazo-pyridines (two N-atoms)	B06-D05 C06-D05 E06-D05
				Imidazo-pyrimidines (four N-atoms)	B06-D09 C06-D09 E06-D09
				Imidazo-pyrimidines (three N-atoms)	B06-D08 C06-D08 E06-D08

Imidazole	B07-D09 C07-D09 E07-D09	general and other	B14-G01 C14-G01	Indium compounds	B05-A01B C05-A01B E35-F
crosslinkers	A08-C09 A08-D03	Immunosuppressant	B12-D02B B14-G02 C12-D02B C14-G02	inorganic inorganic compound pigment	G01-A16 E05-D
Imidazolidinetrione polymer	A05-J02			organic	
2-imidazolidinone condensant	A01-E05	Impact modified polymer mixtures	A07-A+ A09-A05A	Indole	B06-D01 C06-D01 E06-D01
Imide - see appropriate acid				Indolizine	B06-D04 C06-D04 E06-D04
Imine (organic)	B10-A20 C10-A20 E10-A20 E10-A20A E10-A20B	Impact strength, behaviour of polymers	A09-A05A	Indolmycin	B02-I C02-I
Immersion plating of metal	M13-B	Impermeability property of polymer	A09-A09	Inducing flowering in plants	C14-U01F
Immersion, coating with polymer by	A11-B05A	Implants	B11-C04A C11-C04A D09-C01F	Inductances	L03-B02C
Immobilised enzymes	A12-W11L D05-A01	Impotency treatment	B14-P02 C14-P02	Induction heating (electric, welding and cutting)	M23-D03
Immobilised microorganisms	A12-W11L D05-A03A	Impregnants for concrete, polymeric	A12-B08 L02-D14M	Industrial	C14-W
Immunoglobulin general	B04-B04C6 B04-G27 C04-B04C6 C04-G27	Impregnating with polymers	A11-B05+ A11-B09+	Industrial culture media preparation	D05-A04B
Immunoglobulin A	B04-B04C6 B04-G27A C04-B04C6 C04-G27A	Impregnation (powder metallurgy)	M22-H03E	Industrial effluent treatment	E11-Q02B
		Impregnations of polymers, use	A12-B+	Industrial fabrics	F04-E+
Immunoglobulin D	B04-B04C6 B04-G27D C04-B04C6 C04-G27D	Impression devices, dental	D08-A06	Inert gas (group O) catalysts	N04-A
		In vivo radiopharmaceutical diagnostics	B12-K04B C12-K04B	Inert gas compounds inorganic organic	B05-B02C B05-B02C E05-K
Immunoglobulin E	B04-B04C6 B04-G27E C04-B04C6 C04-G27E	In-camera processing	G06-E03	Inert gas compounds organic	C05-B02C
		In-situ foaming	A11-B06+	Inert gas-element or inorganic compound	C05-B02C
Immunoglobulin G	B04-B04C6 B04-G27G C04-B04C6 C04-G27E	Incandescent envelopes or screen production	L03-C04 L03-C04A	Inert gas-element or inorganic compounds	E31-J
		Incandescent lamps	L03-C05	Inert silicon compound	D11-B11 D11-B11B2
Immunoglobulin M	B04-B04C6 B04-G27M C04-B04C6 C04-G27M	Incineration of waste material	J09-C	Inertia separation of particles from gases	J01-G02
		Incombustibility of polymers	A09-A01	Infection diagnosis	B12-K04A4 B12-K04G1A C12-K04A4 C12-K04G1A
		Incontinence treatment	B14-N07D C14-N07D	Bacterial infection diagnosis	B12-K04A4B B12-K04G1C C12-K04A4B C12-K04G1C
Immunoglobulin Y	B04-B04C6 B04-G27Y C04-B04C6 C04-G27Y	Incontinence pads	D09-C04E	Parasitic infection diagnosis	B12-K04A7 B12-K04G1E C12-K04A7 C12-K04G1E
Immunological disease diagnosis	B12-K04A8 C12-K04A8	Incorporation of boron into polymers	A10-E22	Viral infection diagnosis	B12-K04A4A B12-K04G1B C12-K04A4A C12-K04G1B
Immunomodulatory	B14-G03 C14-G03	inserts during moulding	A11-B		
Immunoregulants	B12-A01 B12-A06 B12-D02B B14-G03 C12-A01 C12-A06 C12-D02B C14-G03	metal into polymers	A10-E21+ A10-E22+		
		phosphorus into polymers	A10-E20		
		silicon into polymers	A10-E22A		
		Indazole	B06-D05 C06-D05 E06-D05		
		Indene (co)polymers monomer	E10-J02B A04-C A01-D03		
		Indium alloys	M26-B		
		Indium catalysts	N03-G01		
		Indium production	M25-G13		
Immunostimulants	B12-A01 B12-A06 C12-A01 C12-A06	Indium antimonide, indium phosphide	L04-A02C		
				Infectious development (photographic)	G06-G01
				Infertility treatment	B14-P02 C14-P02
				antiabortive	B14-P03 C14-P03
				Infiltration (powder metallurgy)	M22-H03E
				Inflammability of fabrics	F03-C03+
				Inflammability of polymers	A09-A01

Inflammatory bowel treatment	B14-E10C1 C14-E10C1	Ink jets	G05-F03 L03-G10A1 A12-W07D1	general	B14-J05 C14-J05
Inflation forming of tubular films	A11-B07A A12-S06A	Inks for ink-jets	A12-W07D1	negative	B14-J05A C14-J05A
Influenza treatment		Inks (polymeric) for printing dyes and pigments for	A12-W07D G02-A02A A12-W07E G02-A04B	negative cardiac	B14-F01C C14-F01C
antiviral	B12-A06 C12-A06	for ink-jet printers	A12-W07D1 L03-G09X	positive	B14-J05C C14-J05C
other	B12-D08 C12-D08	magnetic removers	L03-B02H G02-A03C	positive cardiac	B14-F01B C14-F01B
Infra-red absorbers	B12-L08 B14-R05 C12-L08 C14-R05	writing inks, inks for pens	A12-D05B G02-A04A	Insect attractant	B14-B06 C14-B06
detectors, semiconductors	L04-E05C	Inner transition metal compounds	B05-A03B C05-A03B	Insect extracts	B04-B04M C04-B04M
dyes	E24-D	inorganic	E34-E	Insect repellents	A08-M02 B12-L06
radiation sensitive systems	G06-F08+	organic	E05-P		B14-B05 C12-L06
transparent glass	L01-L05	Inner tubes of tyres	A12-T01+		C14-B05 D09-E02
Ingot casting methods	M22-G02 M22-G02A	Inorganic and metallic fibres		fibre/fabric treatment, non-resinous	A12-S05R F03-C02B
Ingot moulds, linings and hot tops	M22-G02B	chemical features	F01-D09+ F03-F12	fibre/fabric treatment, resinous	A12-G F03-C02B
Inhalants	B12-M01B C12-M01B	dyeing/printing	A03-A03	Insect sterilants	B12-K03 B14-B07 C12-K03 C14-B07
Inhaler	B12-M01B C12-M01B	Inorganic cellulose esters	D09-A01A	Insecticide	B12-N02 C12-N02
Dry powder	B12-M01B1 C12-M01B1	Inorganic compounds as disinfectants, other than of food or air	F03-F12	coleoptera (beetle)	B14-B04B1 C14-B04B1
Multidose	B12-M01B2 C12-M01B2	Inorganic fibres dyeing/printing	E31-U E31-U03 E31-U01 E31-U02 E31-U02	dictyoptera (cockroach)	B14-B04B2 C14-B04B2
Inhibitor general and other	B14-L06 C14-L06	Inorganic nanostructures	B05-C08 C05-C08 E31-E A02-A01	diptera (house fly, mosquito,gnat)	B14-B04B3 C14-B04B3
Inhibitors		nanofilms	A08-C05	ephemeroptera (mayfly)	B14-B04B4 C14-B04B4
corrosion	A12-W11J M14-F	nanoparticles	A08-D	hemiptera (aphid)	B14-B04B5 C14-B04B5
corrosion, in water systems	D04-A03C	nanorods	A02-A03	hymenoptera (bee,ant)	B14-B04B6 C14-B04B6
pickling	M12-A02	nanotubes		lepidoptera (butterfly, moth)	B14-B04B7 C14-B04B7
polymerisation	A02-C	nanowhiskers	G06-F07+	orthoptera (locust)	B14-B04B8 C14-B04B8
scale	A12-W11J	Inorganic peroxide, persalt	G06-F07A	siphonaptera (flea)	B14-B04B9 C14-B04B9
scale, in water systems	D04-A03A	catalysts for polymerisation	A08-E02 G01-A+	Insecticide general	B14-B04B C14-B04B
scale, on polymerisation vessels	A08-S08 A10-G02	crosslinkers for ethylenically unsaturated polymers	A12-B01C G02-A01+ A12-B01C A12-B04C	Insecticides	
Initiated by ionizing radiation light etc. addition	A10-B06	crosslinkers for other polymers	A06+	additives for polymers	A08-M02 F03-C02B
(co)polymerisation	A11-C02B	redox polymerisation		for fabrics	F05-B01
curing, crosslinking of polymers	A10-C03C A10-E10	catalysts	A12-B04C	polymer agricultural use	A12-W04C
graft copolymerisation	A02-A+	Inorganic photoconductors, for radiation sensitive systems		Insects	B04-P01C C04-P01C
modification of polymers		containing zinc oxide or selenium (alloy or compound)		Insert incorporation during moulding	A11-B
Initiators for polymerisation		Inorganic pigments		Inspection of fabrics	F03-K02 L01-J02
Injection gun	B11-C04C C11-C04C	Inorganic polymer coatings		glass	
Injector, needle free	B11-C04E C11-C04E	general on metal		Instant food	D03-H01L
Injection moulding	A11-B12+	Inorganic polymers			
equipment excluding moulds	A11-B12C A11-B12B	Inorganic resins for coating metal			
moulds	A11-B12A	Inorganic treatment of pigments/filler			
to form specific goods	A11-B10 A11-B12+	Inotropics			

Instrumentation		Interferon	B02-V03	Internal lubricants for polymers	
electrical	A12-E13		C02-V03		A08-M03B
for polymer processing		general and other	B04-H05	Internal mixer for polymers	A11-A03A
equipment	A09-D+		C04-H05	Internal oxidation of alloys	
Instruments, musical	A12-W08	IFN alpha	B04-H05A	ferrous	M24-D06
Insulated non-metal conductors		IFN beta	C04-H05A	non-ferrous	M29-D
	A12-E02+	IFN gamma	B04-H05B	Interpenetrating polymer	
	G02-A05A		C04-H05B	network	A07-A+
	L03-A02A	Interferon (substance) activity	B04-H05C	Intestinal disease treatment	B14-E10C
Insulated wire	L03-A01B3		C04-H05C		C14-E10C
Insulating (acoustic and		Interferon inducing	B12-A06	Intestine splitting machines	D07-A
thermal)			C12-A06	Intranasal delivery	B12-M01D
boards	L02-D15B	Interhalogen compounds	B14-G01A		C12-M01D
ceramic oxides	L02-G06		C14-G01A	Introduction of substances into	
flexible sheets	L02-D15C	production	B05-C07	fermentation media	D05-A03
material compositions	L02-D15D	use	C05-C07	Intumescent agents for	
panels	L02-D15		E31-B02	polymers	A08-B+
Insulating (electrical)		Interlacing of fibres	E31-B03		A08-F+
cases and bodies	A12-E05	Interleukin agonist/mimetic	F01-H02	Invert sugar	B10-A07
ceramic oxides	L02-G05		B14-L03		C10-A07
layers for semiconductor		Interleukin antagonist/inhibitor	C14-L03		D06-G
devices (including			B14-L07		E10-A07
passivating)	L04-C12	Interleukins	C14-L07	Investment castings, patterns	A12-H05
layers on semiconductors		1	B04-H02A	Iodated/iodination of polymers	A10-E04A
oxide	L04-C12A		C04-H02A	Iodide, vinyl	
nanomaterials	L03-A03N	10	B04-H02L	(co)polymers	A04-E05
oils	H08-D08		C04-H02L	homopolymer	A04-E04
oils, for cables	L03-A01B4	11	B04-H02M	monomer	A01-D12
oils, for capacitors	L03-B03D		C04-H02M	Iodide, vinylidene	
tape	A12-E03	12	B04-H02N	(co)polymers	A04-E07
Insulation (acoustic and			C04-H02N	homopolymer	A04-E06
thermal)		13	B04-H02P	monomer	A01-D12
in buildings	A12-R06		C04-H02P	Iodine (or derivatives) - see	
	L02-D15	14-20	B04-H02Q	also Halogen (or derivatives)	
pipe lagging	A12-H02D1		C04-H02Q	Iodine catalysts	N04-D
polyurethane foam use in	A12-S02F	2	B04-H02B	Iodine deficiency treatment	B12-G06
vehicle	A12-T04B		C04-H02B		B14-N11
Insulation (electrical)	A12-E+	21-25	B04-H02R		C12-G06
tape	A12-E03		C04-H02R		C14-N11
wiring	A12-E02+	26-30	B04-H02S	Iodine isotopes	B05-A04D
	G02-A05A		C04-H02S		C05-A04D
Insulators (electrical)	L03-A	3	B04-H02C	Iodo - see also Halo	
Insulin and derivatives	B04-B02D2		C04-H02C	Iodoxygenated/	
	B04-J03A	31-35	B04-H02T	iodohydrogenation of	
	C04-B02D2		C04-H02T	polymers	A10-E04
	C04-J03A	4	B04-H02D	Iodonium compounds	B10-A01
Intaglio printing plates	G05-A03		C04-H02D		C10-A01
Integral skin foams	A12-S04E	5	B04-H02F	organic	E10-A01
Integrated circuits		6	C04-H02F	Iodostyrenes	
lead frames	L04-C23		B04-H02G	(co)polymers	A04-C
photographically		7	C04-H02G	monomer	A01-D02
produced	G06-D06		B04-H02H	Iodosulphonated/	
polymer use in	A12-E07C	8	C04-H02H	iodosulphonation of polymers	A10-E12B
systems for	L04-F03		B04-H02J		
Integrated injection logic		9	C04-H02J	Ion beam etching of	
devices - I2L or IIL devices	L04-E06		B04-H02K	semiconductors	L04-C07A
Integrated optical systems	L04-F04	general and other	C04-H02K	Ion channel proteins	B04-N07
Integrin	B04-H21	Interlinings for garments	B04-H02		C04-N07
	C04-H21		C04-H02	Ion exchange	J01-D04
Intensifying screen for X-ray		Intermediate for unknown	F04-C	fibres	F04-E
materials	G06-A09	monomer	A01-F	non-ferrous metal	
Interfacial		Intermedin	B04-B02D4	extraction	M25-B03
(co)polycondensation	A10-D01		B04-J05G	petroleum processing	H02-D01
addition polymerisation	A10-B07	Intermingling of fibres	C04-B02D4		
			C04-J05G		
			F01-H02		

regeneration of exchanger resins	J01-D04A A12-M+	processes	B11-C01 C11-C01 D09-A02A D09-B07 E11-P	inorganic	B05-C03 C05-C03 E32-B
tests	B11-C08D2 C11-C08D2 D04-A01G			organic	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B
water purification by		Irradiation in water treatment	D04-A01P2A		A04-D A01-D07
Ion implantation doping of semiconductor layers	L04-C02B	Irradiation of food	D03-H02C K08-H02	vinyl (co)polymer vinyl, monomer	B05-C03 C05-C03 E32-B
Ion or plasma deposition apparatus for semiconductor manufacture	L04-D04	Irritable bowel treatment	B14-E10C C14-E10C	Isocyanide (inorganic)	B10-A15 C10-A15 E10-A15A
Ion plating	M13-E	Ischaemia treatment cerebral	B14-F02D1 C14-F02D1	Isocyanide (organic)	A05-A04 B06-D03 C06-D03 E06-D03
Ionene polymers	A05-J09	coronary	B12-F02 B14-F01E C12-F02 C14-F01E	Isocyanuric acid, glycidyl derivatives of	B04-B02C6 B04-L07 C04-B02C6 C04-L07
Ionising radiation addition (co)polymerisation crosslinking graft copolymerisation polymer modification	A10-B06 A11-C02B A10-C03C A10-E10	general	B14-F02D C14-F02D B12-F07 C12-F07	Isoindole	D05-A01B5 D05-A02E B12-G01B5 B14-D09 C12-G01B5 C14-D09
Ionising radiation sensitive materials	A12-L+	muscle	B12-K02	Isomerase	D05-C03F
Ionising radiation stabilisers	A08-A02	pulmonary	B14-F02D2 C12-K02 C14-F02D2	agonists	B11-C01 C11-C01 E11-J01 H04-D03
Ionomers	A10-E21B			enzyme processes	A03-B
IPN	A07-A+	Island-in-sea fibres	A12-S05B F01-E01+	inhibitors	A01-E05
Iridium catalysts	N02-E N02-E04 A02-A06	Islets of Langerhans treatment	B14-N13 C14-N13	production by fermentation	B10-C02 C10-C02 E10-C02C E10-C02C1 E10-C02C2
Iridium compounds	B05-A03B C05-A03B E35-X E05-N E05-N02B	Isobenzofuran	B06-A02 C06-A02 E06-A02	Isomerisation process	A01-E11
Iron		Isobutene (co)polymers monomer	E10-J02C A04-G05+ A01-D13	gasoline production	A05-E03
based powder cores, powders	L03-B02A1	Isobutene-isoprene copolymer (butyl rubber)	A04-G05A	Isomers of natural rubber	E10-J02C A04-G05A
electrodeposition melt treatment	M11-A06A M24-C	Isobutyl acrylate (co)polymers monomer	A04-F06+ A01-D10B	Isophorone diamine condensant	A04-B07 A04-B06 A01-C05
powder preparation for magnetic purposes processing production	L03-B02A1 M24-B01 M24-A	Isobutyl alpha-chloroacrylate (co)polymers monomer	A04-E A01-D10	Isophorone diisocyanate condensant	
Iron catalysts	N02-A	Isobutyl cyanoacrylate (co)polymers monomer	A04-D A01-D04 A01-D10	Isophthalic acid	
element oxide	N02-A01 N02-A01	Isobutyl methacrylate (co)polymers monomer	A04-F06+ A01-D10B	condensant saturated polyesters based on	
Iron chloride polymerisation catalyst		Isobutyl vinyl ethers (co)polymers monomer	A04-F11 A01-D11	Isoprene butyl rubber copolymers (excluding butyl rubber) with isobutylene homopolymer monomer	
Friedel Crafts other	A02-A04 A02-A06B	Isobutylene (co)polymers monomer	E10-J02C A04-G05+ A01-D13	Isopropenyl methyl ketone (co)polymers monomer	A04-F03 A01-D05
Iron compounds	B05-A03A2 C05-A03A2 E35-U E05-L02 E05-L02A G01-A05	Isocitric acid	E10-C02A	Isopropenyl nitrile (co)polymers homopolymer monomer	A04-D03+ A04-D02+ A01-D04
inorganic organic		Isocyanate based resin adhesives	A12-A05F G03-B02E4 A01-E02		
pigments or fillers	G01-A05	condensants crosslinking agents for ethylenically unsaturated polymers crosslinking agents for others	A08-C09A A08-D04A		
Iron oxide pigments	A08-E02 G01-A05				
Ironing textiles	F03-J02				
Irradiation					
addition (co)polymerisation crosslinking graft copolymerisation medical polymer modification polymer surface treatment	A10-B06 A11-C02B A10-C03C K08-H01 A10-E10 A11-C04E				

Isopropyl acrylate (co)polymers monomer	A04-F06+ A01-D10B	Izod impact strength of polymers	A09-A05A	J	
Isopropyl alpha- chloroacrylate (co)polymers monomer	A04-E A01-D10			Jackets	F04-C03
Isopropyl cyanoacrylate (co)polymers monomer	A04-D A01-D04 A01-D10			Jam	D03-H01V
Isopropyl methacrylate (co)polymers monomer	A04-F06+ A01-D10B			Jacquard weaving	F02-A02
Isopropylidene acetone (co)polymers monomer	A04-F03 A01-D05			Jars, polymer use	A12-P06A
Isopropylidene bisphenols condensants	A01-E13			Jasmolin	B04-A07C C04-A07C
Isoquinoline	B06-D03 C06-D03 E06-D03			Javanicin	B02-J C02-J
Isothiazole	B07-F01 C07-F01 E07-F01			Jelly	B12-M03 C12-M03
Isothiocyanate (organic)	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B			Jersey fabrics	A12-S05H F02-B02
Isothiocyanate condensants	A01-E02			Jet crimping	F01-H04C2
Isothiourea	B10-A13A C10-A13A E10-A13A E10-A13A1 E10-A13A2			Jet engines	A12-T03+
Isotope containing compounds	B05-A04+ C05-A04+ E31 E05-R			Jet fuel	A12-T03+ H06-B03
inorganic	E31			Jet ink	G05-F03
organic	E05-R			Jet inks	A12-W07+ G02-A04
Isotope separation	J01-J			Jet looms	F02-A04B
Isotopes of non-metal (free element)	B05-A04+ C05-A04+ E31			Jewellery	A12-F
Isotopic labelling	K09-E			Joining	L03-A01B2
Isourea	B10-A13B C10-A13B E10-A13B E10-A13B1 E10-A13B2			cables	
Isoxazole	B07-E01 C07-E01 E07-E01			fabric lengths	F03-K
Itaconic acid				glass by sealant	L01-H07
addition (co)polymers monomer/condensant	A04-F05 A01-D08 A01-E12			glass by fusion (excluding vitreous enamelling)	L01-H04
Itaconic acid ester				glass by soldering	L01-H03
addition (co)polymers monomer	A04-F07 A01-D10 A01-E12			glass by welding	L01-H03
Ivermectin	B02-A C02-A			glass using interlayer	L01-H05
				glass using other methods	L01-H09
				optical glass fibres	L01-F03H
				Joint disorders	B14-S14 C14-S14
				Joining compositions	G04-B02
				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
Kanamycin	B02-K C02-K
Kaolin	E31-P G01-A10 A08-R06B
filler	
Kapton ®	A05-J01+
Keratin	A03-C01 B04-B04A6 B04-N02 C04-B04A6 C04-N02
Kerosene	H06-B02
Ketal (non-heterocyclic)	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B
Ketalised polymers	A10-E02
Ketals, polyvinyl	A10-E02
Ketenes	E10-F02
Ketomethylene, photographic couplers	G06-H08C
Ketone	B10-F02 C10-F02 E10-F02 A01-E10
condensants	
monomers (mono-unsaturated, aliphatic)	A01-D05
polymers	A04-F03
thio	B10-F01 C10-F01 E10-F01
Ketone condensation polymers	
with amides/amines	A05-B
with other condensants	A05-J08
with phenols	A05-C
Kevlar ®	A05-F05
Kickers for blowing agents	A08-B
Kidney extracts	B04-B04H C04-B04H
Kidney machines (polymer use)	A12-V02 A12-V03B
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

kinases	B04-L04C C04-L04C
Kitchenware	A12-D03
Kneading of polymers	A11-A03+
Knees, artificial	A12-V02 D09-C01D
Knit-deknit crimping of fibres	F01-H04C F02-B03
Knitted fabrics	A12-S05H F02-B02
Knitting	
machine accessories	F02-B04
machines	F02-B03
methods	A11-C05A F02-B03
warp	F02-B03A
weft	F02-B03B
Knives (tableware)	A12-D03
Knop yarn	F01-E
Knotted carpets	F02-E03
Knotting	F02-E03
Knotting of fibres to join ends	F01-H03B
Kodachrome ® type colour materials	G06-C02
Krypton (element)	B05-B02C C05-B02C E31-J
Krypton compounds	
inorganic	B05-B02C C05-B02C E31-J
organic	B05-B02C C05-B02C E05-K
Kurchatovium compounds	B05-A04 C05-A04
inorganic	E35-R
organic	E05-Q
Kuru disease treatment	B14-N16C C14-N16C

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	film	A12-S06C+	Latensification	G06-G04
other addition polymers, vinyl ester or unsaturated acid polymer excluding acrylic	G02-A02D3	phenol-formaldehyde resin in	A05-C03A	Latent image transfer process, electrophotographic	G06-G08D
other addition polymers, vinyl halide polymer	G02-A02D2	phenolic resin in reinforced plastics	A05-C01B1	Latex (latexes, latices) paints	A07-B+
other additional polymers, diene or polyene polymers phenoplasts	G02-A02D1	sheet	A12-S08A		A12-B01A
polyesters	A12-B01H	unsaturated polyester in unspecified	A05-D02E1	rubber	G02-A+
polymers (general)	A12-B01I	Laminating	A12-A04D		A07-B01
polyurethane	G02-A02F		A11-B05+	Laundering compositions	F03-J+
silicone	A12-B01K	adhesive, of fabrics	A11-B09+		D11
synthetic polymers (general)	G02-A01A	board (chip-, fibre-, card-) production	F03-D+	Laundry detergent compositions	F03-J03
	G02-A02B	decorative laminates	F03-D01		D11-D01H
Lacquers	A12-B+	production	A11-B09B	Lauro lactam condensant	A01-E04
additives for chemical removers for general addition polymer	G02-A03+	decorative laminates	A11-B09B	Lauroyl peroxide catalyst for polymerisation	A02-A01
general condensation polymer	G02-A03C	production	A11-B09C	crosslinker for addition (co)polymers	A08-C05
organic pigment used in polymeric	A12-B01X	production using moulds/extrusions	A11-B09C	crosslinker for other polymers	A08-D
polymeric, solvent based	A12-B01B	filament winding	F03-D02	redox catalyst for polymerisation	A02-A03
polymeric, water based	A12-B01A	flame of fabrics	A11-B09D	Lauryl acrylate (co)polymers monomer	A04-F06+
Lactam	A01-E04	non-fibrous bodies (film, sheet etc.)	F03-D+		A01-D10B
condensants	A05-F03	process for fabrics to form specific goods	A11-B09A+	Lauryl methacrylate (co)polymers monomer	A04-F06+
derived polyamides	E26-B	Lamps	A12-E11		A01-D10B
dye precursor	E26-B	discharge, luminescent envelope for discharge, structural	L03-C04B	Lavatory cleaners ware	D11-D01D
Lactides condensants	A01-E11	parts for incandescent	L03-C03		A12-R02
	A01-E12	shades for	L03-C05	Lavsan ®	A05-E04+
	A01-E14	Landfills	A12-L03	Lawrencium compounds	B05-A04
Lactones	A01-E12	waste storage	J10-A	inorganic	C05-A04
condensants/monomers, (cyclo)aliphatic	A01-E14	Lanolin	B04-B01B	organic	E35-R
condensants/monomers, aromatic	A01-E11	Lanthanide (-um) compounds	B05-A03B		E05-Q
dye precursor	A01-E14	containing glass	L01-A02A	Laxatives	B12-J07
saturated polyesters	E26-B	inorganic (general)	E34-E02		B14-E09
derived from	A05-E02	inorganic (other than cerium)	E34-E02B	Lay-flat film	C12-J07
Lactose	D06-G	organic	E05-P		C14-E09
in compositions	E07-A02	Lanthanide (-um), production	M25-G21	Lay-up of fibre reinforced plastics	A12-S06+
production	B04-D01	Lanthanide catalysts	N03-A02	to form specific goods	A11-B09+
	C04-D01	general	N03-A02	Laying of textile webs	A11-B09A+
	B07-A02	lanthanoids (other than cerium)	N03-A02B	LCD, polymer use	F03-K01
	C07-A02	Lanthanum catalysts	N03-A01	sealant materials(resins)	A12-L03B
Ladles, casting	M22-G03G	Lasers			L03-G05B5A
Lagging for pipe, tube, hose	A12-H02D1	annealing in semiconductor production	L04-C16B	LDPE	A04-G02+
Lamb	D02-A03B	beams for electric welding and cutting	M23-D05	Leaching (non-ferrous metal extraction)	M25-B
Laminated		compositions	L03-F02A	Lead alloys	M26-B04
film	A12-S06C+	Oxide compositions	L02-G10B	Lead catalysts	N03-G04
for packaging	A12-P01A	dye lasers	L03-F02A3	Lead compounds	B05-A02
glass	L01-H02	construction and design	L03-F02B		C05-A02
sheet	A12-S07A	fluorescent and luminescent materials for semiconductor manufacture	L03-G09G	inorganic	E35-J
Laminates	E12-A11	polymerisation initiated by	A10-B06	organic	E05-F02
decorative	A12-A04A		A10-C03C	pigment/filler	E05-F02C
fabric/fibre reinforced	A12-S08A	recording devices	A10-D+	Lead for pencils	G01-A04
	F03-D	semiconductor type	A12-L03C		A12-D05B
			G06-D07	Lead frame attachment to semiconductor and other devices	G02-A04
			L04-E03B		L04-C24

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 A12-L+
Lead removal from waste water	D04-B05 D04-B05A	agonist/mimetic	B14-L04 C14-L04	polymer compositions for radiation sensitive systems	G06-F03+
Leads and terminals preparation	L03-A01B5	antagonist/inhibitor	B14-L08 C14-L08	Lighters, chemical	K04-B02
Leasing	F02-A01	Levelling agents for electroplating	M11-B01	Lighting, electrical	A12-E11 L03-H04A
Leather		Levomycetin (chloramphenicol)	B02-C01 C02-C01	Lightning arresters	L03-B04E
artificial, general	A12-B02A F04-B01+ D07-B	Lewis acid polymerisation catalyst	A02-A04	Lignin	A03-C02 B04-C03D C04-C03D
coatings on	A12-B02A	Lewis acid, metal halide catalyst	N04-D01	Lignite	A03-C03
coatings on natural	A12-B06	Lexan ®	A05-E06+	Lignosulphonate	A10-E12A B04-C03D C04-C03D
mechanical treatment	D07-A	Lichen controlling	B12-P07 C12-P07	Limbs, artificial	A12-V02 D09-C01D
waste	B04-B04E C04-B04E F04-B01A F04-B01B	Lids for containers	A12-P03	Lime (calcium oxide, hydroxide)	E34-D01 L02-B04 L02-B01
with polyurethanes	F04-B01A	Ligase	B04-B02C7 B04-L08 C04-B02C7 C04-L08	Limestone (calcium carbonate)	E34-D03 L02-B01
with polyvinyl chloride	F04-B01B	agonists	B14-L01A6 C14-L01A6	production	L02-B01
Leathercloth	A12-B02A F04-B01	inhibitor	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Limiting oxygen index of polymers	A09-A01
Leaves (of plants)	B04-A07D5 B04-A09A C04-A07D5 C04-A09A	Ligase enzyme process	D05-A01B6 D05-A02F	Lincomycin	B02-L C02-L
extracts	B04-A10B C04-A10B	Light concrete	L02-D03	Linear low density polyethylene (LLDPE)	A04-G06+
Lecithin	B04-B01B B05-B01P C04-B01B C05-B01P	Light emitting: diodes	L04-E03A	Linear polyethylene (HDPE)	A04-G02+
LED, polymer use	A12-E11A	diode lamps	L03-C06	Linen, fabric use	F04-D01 F04-D02
Fluorescent and luminescent materials for semiconductor manufacture	L03-G09G	fluorescent and luminescent materials	L03-G09G	Liners (well equipment)	H01-C07
Light emitting diodes	L04-E03A	luminescent and fluorescent compositions	L02-G10A	Lining of pipes, processes	A11-B09A+
Legs, artificial	A12-V02 D09-C01D	semiconductor devices	L04-E03	Linings for casting ladles	M22-G03G2
Length metering, in winding of fibres	F01-H03B	Light irradiated/irradiation of polymer for chemical modification	A10-E10	casting moulds	M22-A04
Lenses	A12-L02A	crosslinking	A11-C02B	drums (packaging)	A12-P05
coating	L01-G04D	Light receiving and detecting devices (semiconductor) general	L04-E05	furnaces	M22-G03G2
contact	A12-V02A D09-C01A	Light stabilisers	F03-C07	garments	F04-C
spectacle	A12-L02A A12-V02A	fabrics	A08-A03	hoses	A12-H02D+
Leprosy treatment	B12-A03 B14-A01B1 C12-A03 C14-A01B1	polymers	G06-G18	ingot moulds	M22-G02B
Letterpress printing plates	G05-A02	Light, photographic exposure to	G06-G18	iron and steel apparatus	M24-A05A
Leuco base (general)	E26			oil wells	A12-W10C
Leuco dyes (dye precursor) for dyeing/printing fibres	E26 F03-F23			pipes	A12-H02D+
for heat sensitive systems	G06-F08A			tanks	A12-P05
				tubes	A12-H02D+
				Linoleum	F04-B02
				Lip gloss	D08-B01 D08-B01B

Lip liner	D08-B01	deposition apparatus for semiconductor processing	L04-D03	Loudspeakers	A12-E12 L03-H02
	D08-B01B	epitaxial growth of semiconductor layers	L04-C01C	Low alkali glass	L01-A01C
Lipid	B04-B01B C04-B01B	etching of semiconductors	L04-C07C	Low calorie beer	D05-B02 D03-H01T3
Liposome	B12-M11F C12-M11F	Liquid skin care formulations	D08-B09A1A	Low carbohydrate food	D03-H01T3B
Liposome site-specific release	B12-M10E1 C12-M10E1	Liquid soap	D11-C01C	Low density polyethylene	A04-G02+
Lipoxygenase	B04-L03E C04-L03E	Liquid toning, electrophotographic	G06-G06	Low fat food	D03-H01T3A
Lipstick	A12-V04C D08-B01 D08-B01B	Liquid-gas mass transfer	J01-A02	Low pressure polyethylene	A04-G02+
		Liquids, application to surfaces	J02-C	Low silica glass	L01-A04
Liquefaction of natural gas	H01-F02	Liquids, treatment with adsorbents	J01-D01	Low temperature detergents	D11-D01F
Liquefied gas vessels	J06-B1	Liquids, Biological treatment	J01-D07	Lozenges	A12-V01 B12-M11 C12-M11
Liquefied natural gas	H06-A02	Liquids, materials for filtering	J01-H02A	Lubricants	
Liquefied petroleum gases	H06-A01	Liquids, vessels for storing	J06-B	additives	H07-G
Liquefying gases for separation	J07-D01 J07-D02	Lithium catalysts	N01-A	ceramic oxide	L02-G08
Liquid chromatography-mass spectrometry	J04-B01C6	Lithium compounds	B05-A01B C05-A01B E35-G E05-A E05-A01	coatings (oil free) for metal containing oxygen	M13-H H07-A02 H07-B01
Liquid crystals	A12-L03B E12-B07 G04-B L03-G05B1 L03-G05B4 A12-L03B L03-G05A	inorganic	E35-G	extremely high viscosity oils for electrical components	H08-E04 A12-S05S F01-H06+
		organic	E05-A01	for fibres	A12-S05S F01-H06+
		Lithium halide polymerisation catalyst	A02-A07+	for metal working	M21-B03 H08-D07
additives	L03-G05B4	Lithographic films or papers	G06-D02	for polymers	A08-M03+
display devices	A12-L03B L03-G05A	Lithographic printing plates produced photographically	G05-A01 A12-W07B G05-A01 G06-D05+	for refrigerators	J07-A09 H08-D11
display devices, components for display devices, (electro)photographic production of mixtures	L03-G05B G06-D06B L03-G05B2 A09-A02A	Liver extract	B04-B04H C04-B04H	for rolling	M21-A06 H08-D07 H07-E
properties	A09-A02A	Liver fluke treatment	B12-B06 B14-B03 C12-B06 C14-B03	gaseous layers in magnetic recording	L03-B05K3 H07-B H07-A01
Liquid detergent compositions	D11-D07			of vegetable origin	H07-A01
dishwashing detergents	D11-D07D			photographic	G06-H17
laundry detergents with bleach (stain removers)	D11-D07C3	Liver treatment	B12-G02 B14-N12 C12-G02 C14-N12	polymeric production	A12-W02 H07-L
laundry detergents with special use	D11-D07C			refrigeration	H08-D11
Light duty liquid laundry detergents	D11-D07B	Liverworts	B04-A08A C04-A08A	semi-solid and solid synthetic treatment of fabrics	H07-D H07-A A12-S05S F03-C05
liquid soap type (hand washing compositions)	D11-D07F	LLDPE (linear low density polyethylene)	A04-G06+	Lubrication systems	H07-F
Liquid etching of metal, compositions	M14-A03	Lobed fibres	A12-S05A F01-E02	Luggage	A12-T
Liquid fabric softeners	D11-B15B F03-C05	Looking glasses	A12-L03	Luminescent ceramic oxides	L02-G10A
Liquid food, testing and monitoring	D03-K03	Looms		compositions for discharge lamp or tube surfaces	L03-C02C
Liquid freezing	J07-B	conventional	F02-A04A	compounds containing metals	E24-A06A
Liquid metal coolants (for nuclear reactor)	K05-B03A	jet, rapier	F02-A04B	cosmetic pastes	D08-B01
Liquid metal cooled reactor processes	K05-A02C	shedding mechanisms	F02-A02	dyes containing metals	E24-A06A
Liquid particle separation	J01-F	shuttleless	F02-A04B	dyes (gen.)	E24-A06
Liquid personal face and body wash	D08-B09A2A	weaving methods	F02-A04+	heterocyclic dyes	E24-A06B
Liquid petroleum fuel	H06-B	Lorries	A12-T+	envelopes and screens	L03-C04 G04-A
Liquid phase chromatography	J01-D01A	Lost patterns	M22-C01	materials for semiconductor manufacture	L03-G09G
		Lost wax process	M22-G03N	others dyes	E24-A06C
		Lotions		Lung disease treatment	B12-K06 B14-K01 C12-K06 C14-K01
		cosmetic	A12-V04+ D08-B A12-V01 B12-M02B C12-M02B		
		pharmaceutical			

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Magneto-optical recording devices layers	G06-D07 G02-A05B1	Manganese production	M25-G17	Material handling (polymers)	A11-C06
Magnetography	G05-F	Manifolds for forming fibres	F01-C01	Mats, sport	A12-F01A
Magnetophoretic display	L03-G05H	Manufacture, tyre equipment	A12-T01A	Matting agents (photographic)	G06-H16
Magnetorheological fluid	H08-D12	Manufacturing processes, for polymer articles	A11-B+ A11-C+	Matting agents for polymers inorganic organic	A08-E02 A08-E03C
Magnetos	A12-E08B	Marble, artificial	A12-R01	Mattresses	A12-D01
Magnetostrictive materials	L03-G09I	Margarine	D03-C	Mayonnaise	D03-H01H
Magnets	A12-E08 L03-B	margarine	D03-C02	MDI condensants	A01-E02
Make up (cosmetics)	A12-V04+ D08-B01 D08-B01C D08-B01A	Mariculture	A12-W04+	Measuring purity of water	D04-A01H
Eye make up	D08-B01A	Marine drilling equipment drill ships	H01-B01 H01-B01C	Measuring, electrical	A12-E13
Male sexual dysfunction	B14-P04A C14-P04A	Fixed multi-well platforms	H01-B01A	Measuring, non-electrical	A12-L04B
Maleate, diallyl (co)polymers monomer	A04-A03 A01-B03	mobile jack-up platforms	H01-B01B	Meat paste	D02-A03B
Maleic acid esters (monoolefinic) (co)polymers monomer	A04-F07 A01-D10 A01-E12	semi-submersible platforms	H01-B01D	Meat preservation	D03-A01
Maleic acid/anhydride (co)polymers monomer	A04-F05 A01-D08 A01-E12	Marine production equipment, for oil and gas	H01-D05	Meat processing	D02-A
Maleic anhydride	E07-A01	Marine production platforms Decommissioning	H01-B01E	Meat products	D02-A03
Maleic esterified polymer	A10-E07A	Marine storage and transport, for oil and gas	H03-D	Meat substitutes	D02-A03E
Maleimides (co)polymers monomer	A04-D09 A01-D01	Marker buoys	A12-T	Mechanical etching of metal	M14-A01
Maleinised rosin	A10-E23	Marker gene	B04-E12 C04-E12	finishing of fibres and yarns	F01-H
Malnutrition treatment	B14-E11C C14-E11C	Marketing textiles	F03-K	properties of polymers	A09-A05+
Malt	B04-A07F B04-A09F C04-A07F C04-A09F	Marking defective semiconductor devices	L04-C19	purification of paper pulps	F05-A03
Malting grain	D05-B01A	Marking inks	A12-D05B G02-A04+	relaxation or stabilisation of fabrics	F03-A02
Maltose	D06-G E07-A02 B04-D01 C04-D01 B07-A02 C07-A02	Marmalade	D03-H01V	testing of properties	J04-C02D
in compositions	B04-D01	Masers	L03-F01	tools	A12-H
production	B07-A02 C07-A02	Mask design and manufacture in semiconductor processing	L04-C06A	Mechanical engineering	A12-H+
Mammary gland	B14-N18 B14-N18	Masking materials in semiconductor processing	L04-C05	Mechanical engineering, use of polyamides	A05-F01E2
Mammalian extracts (general)	B04-B04L C04-B04L	Masking methods (photographic)	G06-E02	polyethylene	A04-G02E4
Mammotrophin	B04-B02D4 B04-J05 C04-B02D4 C04-J05	Masking techniques (for semiconductors)	L04-C06	polyurethanes	A05-G01E2
Manganese alloys	M26-B	Masonry, coating compositions for	G02-A05F	PTFE	A04-E08B
Manganese catalysts for polymerisation	N03-E A02-A06+	Mass colouring of polymer	A11-A01+	PVC	A04-E02E1
Manganese compounds	B05-A03A1 C05-A03A1	Mass spectroscopy testing	B11-C08A C11-C08A J04-B01A1 J04-B01C5A	reinforced polymers	A12-S08D1
inorganic	E35-S	Mass transfer (liquid-gas)	J01-A02	silicon polymers	A06-A00E2
organic	E05-L03 E05-L03A	Masterbatching with polymers of additives	A11-A03+ A11-A01+	Mechanical treatment of fabrics	A12-S05U
		of pigments	A11-A01+	fibres	F03-A+ F01-H
		Masticating of polymers	A11-A03+	fibrous raw material in papermaking	F05-A01
		Mastics	A12-R08 G04-B02	natural fibrous material	F01-A+
		Mastitis treatment	B14-N18 C14-N18	natural fibrous material, animal fibres	F01-A01
		Matches	A12-T03A K04-D	natural fibrous material, mineral fibres	F01-A03
				natural fibrous material, vegetable fibres	F01-A02
				Mechanisms, loom shedding	F02-A02
				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	Melts of polymers	A12-S	Metal atom incorporation in polymer	A10-E20 A10-E21+ A10-E22+
PVA	A10-E09B2 B04-C03B C04-C03B	Membranes	A12-W11A		
silicone polymers	A06-A00E3 B04-C03 C04-C03	battery use	A12-E06B		
Medical, surgical, polymer use	A12-V+	electrolysis cell separators	A12-E09 J03-B03 J01-E02C1	Metal casting	M22-G
Medicine		ion transport	A12-W11A	casting ingots for rolling, forging	M22-G02
nuclear applications to	K09-B	reverse osmosis use	D04-A01D A12-W11A	casting pigs for remelting	M22-G01
Medicines, polymer use in	A12-V01	semipermeable	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 L03-G04B L03-G04A	Directional solidification	M22-G03L
catalyst for polymerisation	A02-A01	optical	B14-J01A4 C14-J01A4	For aero engines	M22-G03K1A
crosslinking agent for addition (co)polymers	A08-C05	semiconductor		For IC engines	M22-G03K2
crosslinking agent for other polymers	A08-D	Memory enhancer		For turbines	M22-G03K1
redox polymerisation catalyst	A02-A03 E07-D13 A01-E01 A05-B02	MEMS	L03-G10M	Investment casting	M22-G03N
Melamine		Mendeleeveium compounds	B05-A04 C05-A04 E35-R E05-Q	Rapid Solidification Processes	M22-G03M M22-G03E
condensant		inorganic		vacuum casting	
formaldehyde resin		organic		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		Metal containing heat stabiliser for polymers	A08-A04A
Melanocortin agonists	B14-D01E1 C14-D01E1	for addition (co)polymers	A08-C03	Metal containing monomer/ condensant	A01-A+
Melanocortin antagonists	B14-D02E1 C14-D02E1	for other polymers	A08-D04	Metal drawing of sheet, wire, rod, tube or profile equipment	M21-B01 M21-B01B M21-B01A
Melanocyte stimulating hormone	B04-B02D4 B04-J05G C04-B02D4 C04-J05G	Mercerising of fabrics	A11-C05C F03-B	Metal extrusion of sheet, wire, rod, tube or profile auxiliary processes	M21-B02 M21-B02B M21-B02D
Melanophoric hormone	B04-B02D4 B04-J05G C04-B02D4 C04-J05G	Mercuric sulphide	L04-A03A	control devices	M21-B02C
Melt		Mercury alloys (e.g. amalgam)	M26-B02	equipment	M21-B02A
adhesives	A12-A+	Mercury catalysts	N03-F02	processes	
blowing	A11-C05A1 F01-C07A	Mercury compounds	B05-A03A5 C05-A03A5 E35-E E05-N E05-N03C G01-A09	Metal fillers or reinforcing agents for polymer	A08-R05
coating onto substrates	A11-B05E	inorganic		Metal incorporated polymer	A10-E20 A10-E21 A10-E22
iron and steel treatment	M24-C	organic			
proofing of fabrics	F03-C03+	pigments/fillers	M25-G15	Metal inhibitors for polymer	A08-A07
spinning	A11-B15B F01-C08B	Mercury production	L03-A03B	Metal insulator semiconductor field effect transistor (MIST, MISFET)	L04-E01C
spinning, high speed	A11-B15B1 F01-C08B1	Mercury selenide	E25-B E25-E	Metal-organic framework gas sorption	J01-E02B1 J01-E03C1 J06-B06C
Melting refractory or ceramic	L02-A05	Merocyanine dyes			
		Merocyanine/ neutrocyanine spectral sensitisers	G06-H07B		
		Mesa isolation in semiconductor manufacture	L04-C12C		
		Mesogenic/ mesomorphic (liquid crystal property of polymer)	A09-A02A		
		Metabolic disease treatment	B14-S13 C14-S13		
		Metaformaldehyde condensant	A01-E09		

Metal removal from water	D04-B05	Methacrolein	B10-D01	Methine dyes	E25-B
heavy metals	D04-B05A	(co)polymers	C10-D01	Methoxylated melamine	
other metals	D04-B05B	monomer	A04-F02	formaldehyde resin	A10-E08C
Metal salt adhesion		production	A01-D05	Methoxylated methylolated	
promoter for polymers	A08-M01C	use	E10-D01A	melamine	A10-E08C
Metal salt containing polymer	A10-E21+	Methacrylamide	E10-D01D	Methoxymethylated melamine	
	A10-E22+	(co)polymers		formaldehyde resin	A10-E08C
Metal spraying	M13-C	monomer	A04-D04+	Methyacrylated polymers	A10-E07B
Metal supports for magnetic			A01-D06	Methyl acrylate	E10-G02
recording	L03-B05L2	Methacrylates		(co)polymers	A04-F06+
Metal wires	F04-A	diolefinic (co)polymers	A04-B09	monomer	A01-D10B
Metal working		diolefinic monomers	A01-C01	Methyl cellulose	A03-A04+
ancillary equipment	M21-N	monoolefinic (co)polymers	A04-F06+		B04-C02A2
control and testing	M21-M	monoolefinic monomers	A01-D10		C04-C02A2
manipulators	M21-N02	polyolefinic (co)polymers	A04-A03		
safety devices	M21-N03	polyolefinic monomers	A01-B03	Methyl ethyl ketone	
take-offs, furnaces and		Methacrylic acid	E10-C04G+	condensant	A01-E10
cooling beds	M21-N04	(co)polymers	A04-F04+	Methyl ethyl ketone peroxide	
Metal(loid) containing polymers		monomer	A01-D08	catalyst for addition	
	A06+	Methacrylic acid aldehyde		polymerisation	A02-A01
Metal, polymer coating on	A12-B04+	(co)polymers	A04-F02	crosslinking agent for	
Metal-ceramic composites	L02-J01	monomer	A01-D05	addition (co)polymers	A08-C05
Metal-ceramic seals	L02-J01C	Methacrylic acid esters		crosslinking agent for	
Metallic electrical conductors	L03-A01	(co)polymers	A04-F06+	other polymers	A08-D
insulated	L03-A01B	monomer	A01-D10B	redox polymerisation	
non-insulated	L03-A01A	production	E10-G02D3	catalyst	A02-A03
Metallic fibres features		use	E10-G02H2C	Methyl hydroxypropyl cellulose	
chemical	F01-D09	vinyl methacrylate	E10-G02D1		A03-A04
fibres, dyeing/ printing	F03-F12		E10-G02H2A		B04-C02A2
Metallic magnets	L03-B02A	Methacrylic acid halide			C04-C02A2
Metallic pigments/fillers	G01-A12+	polymers	A04-E	Methyl isopropenyl ketone	
Metallised ceramic	L02-J01A	Methacrylic acid production	E10-C04G1B	(co)polymers	A04-F03
Metallised dyes for dyeing/		Methacrylic acid use	E10-C04G2B	monomer	A01-D05
printing fibres	F03-F25	Methacrylic anhydride		Methyl methacrylate	E10-G02
Metallised polymers	A11-C04B1	(co)polymers	A04-F04+	(co)polymers	A04-F06
Metallising from metal		monomer	A01-D08	monomer	A01-D10B
vapour to form coatings	M13-F	Methacrylic fibres		Methyl methacrylate-	
Metallising plastics	A11-C04B1	chemical features in		glycidyl acrylate copolymer	A04-F06+
Metallising printed circuits	L03-H04E3	production	F01-D02		A05-A04
Metallising textiles	F03-H	dyeing/printing	F03-F05	4-Methyl pentene-1	
Metallocenes general	E05-V+	Methacrylonitrile	B10-A15	(co)polymers	A04-G10
	B05-V		C10-A15	monomer	A01-D13
	C05-V	(co)polymers	E10-A15	Methyl phenol condensant	A01-E13
	E05-V02	homopolymer	A04-D03+	Methyl styrene, alpha	
bridged carbocyclic		monomer	A04-D02+	substituted	E10-J02B
carbocyclic with only	E05-V03	Methacryloyl halide polymers	A01-D04	(co)polymers	A04-C05
1 pi-arene ligand	E05-V04		A04-E	monomer	A01-D03
heteroatom-containing rings	A02-A06E	Methallyl acrylate		Methyl styrene, o-, m-, or p-	E10-J02B
metallocenes catalysts	E05-V05	(co)polymers	A04-B09	(co)polymers	A04-C05
Other 3-D structures		monomer	A01-C01	monomer	A01-D03
Unbridged metallocene with		Methallyl methacrylate		Methyl vinyl ether	
2-4 pi-arene ligands	E05-V01	(co)polymers	A04-B09	(co)polymers	A04-F11
Metalloproteases	B04-L05C1	monomer	A01-C01	monomer	A01-D11
	C04-L05C1	Methallyl sulphonc acid		Methyl vinyl ketone	
Metallurgical coke production	H09-A02A	(co)polymers	A04-A	(co)polymers	A04-F03
Metallurgy		monomer	A01	monomer	A01-D05
nuclear applications to	K09-J	Methane	B10-J02	2-Methyl-1,3-butadiene	E10-J02C
Metallurgy polymer use	A12-W12F		C10-J02	(co)polymers	A04-B07
Metals (non-silver), radiation		production by fermentation	E10-J02D	butyl rubber	A04-G05A
sensitive systems including	G06-F04	4,7-Methanoindene	D05-C14	homopolymer	A04-B06
Metalworking fluid	H08-D07		B09-D02	monomer	A01-C05
Metathesis of olefins	E11-H02		C09-D02	Methylenedioxy- benzene	B06-A02
			E09-D02		C06-A02
					E06-A02

Methylenedioxy- pyridine	B06-E03 C06-E03 E06-E03	Microscopy	B11-C08J C11-C08J	Miscarriage prevention	B14-P03 C14-P03
Methylenedioxy- quinoline	B06-E05 C06-E05 E06-E05	Microspheres	E12-A13	Missiles, military	A12-T03D+ K03-A
Methylolated melamine	A05-B02	Microsuspension	A10-B03	Miticide	B12-B04 B14-B04A C12-B04 C14-B04A
Methylolated urea	A05-B03	polymerisation	A10-B05	Mitomycin	B02-M C02-M
MF resins	A05-B02	Microwave heat sealing/ welding of polymers	A11-C01+	Mixed chromophore dyes	E24-C
Mica fillers	A08-R06B G01-A06	Microwave treatment of pigments fillers	G01-B01	Mixed filament yarns	F01-E07
Microarray	B11-C08E6 C11-C08E6	Microwelding printed circuits	L03-H04E7	Mixers	
Microanalysis	J04-B04	Mikamycin	B02-M C02-M	flow	J02-A02A J02-A03A
Microbial mutants	D05-H03	Military		for polymers	J02-A02B
recombinant	D05-H14A	fabrics and products	F04-E02	rotary	A11-A03 J02-A
Microbial polysaccharide	B04-C02F C04-C02F	polymer use	A12-T03D+ A12-S08D3	Mixing	
Microbicidal	B14-A01 C14-A01	polymer use, reinforced		devices for fermentation	D05-A03B A11-A03A J02-A02
Microbiological culture, apparatus	D05-H02	Milk	B04-B04K C04-B04K	vessels	
media	D05-H01	additives	D03-B15	equipment	
Microbiology	A12-W11L D05-H	carriers for	D03-B08	equipment, for batter	D01-A05
Microcapsules	A12-W05 B12-M11E C12-M11E	concentrates	D03-B10	and dough	L01-B
detergent use	D11-D02B	synthetic	D03-B07	glass batch	D03-K07
photographic	G06-C16	testing	D03-B09	food	J02-A01
Microcomputers for sewing machines	F02-F01B1	transporting	D03-B10	processes	A07-A
Microdenier yarns	F01-E06	Milling of plastics	A11-A05+	Mixtures of polymers	A04-D02B A04-D03B
Microfilm	G06-D	Millipedes	B04-P01C C04-P01C	Modacrylic fibres	F01-D02 F03-F05
Microfluidic devices	B11-C08C1 C11-C08C1	Mimetic general and other	B14-L01 C14-L01	chemical features of dyeing/printing	A12-F
Microgels of polymers	A12-S	Minced meat	D02-A03B	Modelling compositions, clays	K08-B
Microorganisms	A12-W11L B04-B02B B04-F01 C04-B02B C04-F01	Mineral (naturally occurring)	B04-D02 C04-D02	Moderating neutrons	K05-B05
animal feeds from	D03-G02	Mineral acids in detergents	D11-B13	Moderators for nuclear reactors	
Bacteria	D05-H04	Mineral bound to enzyme	D05-A01A5	Modification, chemical of	
Fungi	D05-H05	Mineral fibres		drying oils	G02-B03
linked to a carrier	D05-A03A	mechanical treatment	F01-A03	natural resins	G02-B01
linked to a carrier, polymeric	A12-W11L	preparation	L02-B08	Modification, chemical of	
microbial mutants	B04-B04A5	product	L02-D11	polymers by	
protein from	B04-N03 C04-B04A5 C04-N03 D03-F03 D05-H06A	Mineral oils	B04-B01C3 C04-B01C3	acetalisation	A10-E02
viruses		lubricants	H07-B	alcoholysis	A10-E09+
Microparticle	B12-M11N C12-M11N	Mineral removal from water	D04-B07G	alkylation	A10-E03
Microprocesses	J04-F01	Mineral waxes	B04-B01C3 C04-B01C3	amidation	A10-E17
Microphones, polymer use	A12-E12	Mineralocorticoid antagonist	B14-D02A C14-D02A	amination of epoxy or polyether resins	A10-E18
Microprocessors in polymer processing	A09-D+	Mines (explosive)	K03-A01	amination other polymers	A10-E19
Microreactor	J04-X04	Minicells/organelles	B04-F12 C04-F12	arylation	A10-E03
		Mining		cyclisation	A10-E14
		(meth)acrylamide	A04-D04A2	dehalogenation	A10-E04
		(co)polymer use in	M25-F04	dehydrohalogenation	A10-E04
		using low or zero gravity	A12-W10+	depolymerisation,	
		polymer use in		degradation	A10-E05+
		MIP (Macrophage		electric discharge	A10-E10
		inflammatory protein)	B04-H11 C04-H11	epoxidation	A10-E06
		Mirrors	A12-L03	esterification	A10-E07+
		MIS	B04-H10 C04-H10	etherification	A10-E08+
				glycolysis	A10-E09+
				halogenation	A10-E04A
				hydrohalogenation	A10-E04
				hydrolysis	A10-E09+
				incorporating OH or COOH groups other than by hydrolysis	A10-E23

incorporation of alkali(ne earth) metal including ammonium	A10-E21+	organic	E05-M E05-M03C	application compounding	A04-G01E A04-G01B
incorporation of other metals including B and Si	A10-E22+	Monitoring radiation	K07-A	fabrication	A04-G01C
incorporation of phosphorus irradiating with ionising radiation	A10-E20	Monoalkyl orthophosphate (or its salt)	B05-B01P C05-B01P E05-G09C	production treatment	A04-G01A A04-G01D
irradiating with visible or UV light	A10-E10	Monoazo dyes for polymers pigment	A08-E03A+ E21	Monoolefin, aromatic monomer, substituted monomer, unsubstituted polymer	A01-D02 A01-D03 A04-C+
nitration, sulphation, thio group formation, sulphonisation	A10-E24	Monobath processing, photographic	G06-G15	Monoolefinic monomers	A01
oxidation, ozonisation	A10-E11	Monochloroalkane	E10-H02K E10-H03C5 E10-H04C5	Monoquaternary ammonium compounds	B10-A22 C10-A22 E10-A22
reduction	A10-E13	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				
sulphonation	A10-E12A				
sulphurisation	A10-E24				
thio group formation	A10-E24				
ultrasonic vibrations	A10-E10				
urethanisation	A10-E24				
xanthation	A10-E24				
Modified polymers	A10-E+	Monoclonal Antibodies prepared by hybridoma techniques	D05-H11A	Monothiocarbamic acid, or ester (organic)	B10-A12B C10-A12B E10-A12B
Modifiers		prepared by recombinant DNA techniques	D05-H11A1		E10-A12B1 E10-A12B2
polymerisation	A02-B			Mops	A12-D03
viscosity, for polymers	A08-M06	Monocotyledons	B04-A08C2 C04-A08C2	Mordant, photographic	A12-L02F G06-H10
Moisture conservation	B12-P10 C12-P10 C14-T02	Monocytes	B04-F04 C04-F04	Morphinan	B04-A04 B06-D18 C04-A04 C06-D18 E06-D18
Moisture crosslinking agent	A08-D06	Monoepoxy condensants	A01-E07		
Moisture sensitive resistors	L03-B01A3	Monofilaments (monofils)	A12-S05E F01-E05	Morphine	B04-A04 C04-A04
Molasses	B04-D01 C04-D01	Monoglycidyl ether/ester condensants	A01-E07	Morpholine	B07-E03 C07-E03 E07-E03
Molasses, extraction of sugar from	D06-F	Monolithic capacitors	L03-B03B	Mortars, cements	A12-R01A L02-D01
Molecular chaperones/ chaperonins	B04-N09 C04-N09	Monomer	A01-A	Moss	B04-A07D B04-A08A C04-A07D C04-A08A
		Sulphur dioxide	A01-F	controlling	B12-P07 C12-P07
Molecular properties of polymers, testing of	A09-C	Monomer intermediates	A10-G01A		
Molecular sieve		Monomer recovery/removal from polymer	D04-B06	Moth proofing	A12-S05R F03-C02B
catalysts	N06-A N06-B03 L02-G01A	Monomer, polymerisation coating process	A11-B05C	of fabrics, non-resinous	A12-G F03-C02B
(silico)phosphate				of fabrics, resinous	
sorption (petroleum processing)	H02-B01 J01-E02B1 J01-E03C1 J06-B06C	Mononuclear monohydric phenols condensants	A01-E13	Motilin	B04-J12 C04-J12
gas sorption		Mononuclear polyhydric phenols condensants	A01-E13	Motion sickness treatment	B12-D05 B14-E05 C12-D05 C14-E05
Molluscicides	B12-N04 B14-B12 C12-N04 C14-B12	Monoolefin, aliphatic, substituted monomer	A01	Motor molecules	B04-H20 C04-H20
Molten polymers	A12-S	Monoolefin, aliphatic, substituted polymer containing halogen (but not nitrogen)	A04-E+ A04-D+	Motors, electric	A12-E08B L03-B02E
Molybdenum		containing nitrogen not containing halogen or nitrogen	A04-F+	Mould inhibitors	B12-A02 B14-A04 C12-A02 C14-A04
alloys	M26-B13 M25-G18				
production					
Molybdenum catalysts	N03-D N03-D02 A02-A06+				
for polymerisation					
Molybdenum compounds	B05-A03B C05-A03B E35-Q				
inorganic					
inorganic compound					
pigment	G01-A14				

Mould material		Mouth disease	B14-N05A C14-N05A	Mushrooms	
control and testing	M22-A			cultivation	D05-A04C
drying or cooling	M22-B03	Mouth wash	D08-B08B	extracts	B04-A07F1 B04-A10A C04-A07F1 C04-A10A
hardening including		whitening	D08-B14B		
catalysts	M22-A	MSH (melanocyte stimulating hormone)	B04-J05G C04-J05G	protein	B04-B04A4 B04-N01 C04-B04A4 C04-N01
machines for handling or dressing	M22-B				
mixing, grinding and kneading	M22-B01	Mucolytic	B12-K05 B14-K01E C12-K05 C14-K01E	whole	B04-A07D5 B04-A08D C04-A07D5 C04-A08D
reclaiming, sieving and separating	M22-B02				
Mould release agents for concrete moulding polymers	L02-D02 A08-M03B	Mud, drilling	A12-W10A		
Mould repellent (biological)	A08-M02	Mulch films	A12-S06+ A12-W04A B12-P10 C12-P10 C14-T02	Musical instruments	A12-W08
Mouldable refractories	L02-E05			Mutagen	B14-H02 C14-H02
Moulded articles	E12-A09			Mutant formation - general	D05-H03
Moulding		Mulches	A12-W04A B12-P10 C12-P10 C14-T02	Mutant sequences	D05-H12B D05-H12B2 D05-H12B1
blow	L01-E03			engineered	
food	D03-K06	Mule spinning	F01-G02	naturally occurring	
foundry	M22-A			Mutase	B04-L07 C04-L07
glass	L01-E05	Mullerian inhibitory substance	B04-H10 C04-H10	Mycobacteria	B04-F10B2 C04-F10B2
machine	M22-E				
pressure (ceramics)	L02-A03	Multi-CSF	B04-H02C C04-H02C	Mycobactericides (-stats)	B12-A03 B12-A04 B14-A01B1 C12-A03 C12-A04 C14-A01B1
pressure (glass)	L01-E04				
Mouldings of polymers		Multicolour diffusion transfer materials	G06-C09+	Mycocides	B12-A02 B14-A04 C12-A02 C14-A04
blow	A11-B10	Multicomponent inorganic pigment	G01-C		
compression	A11-B11	Multicore optical glass fibres	L01-F03J	Mycoplasma	B04-B02B5 B04-F10A4 C04-B02B5 C04-F10A4
equipment control/safety in A09-D1		Multilayer (electro)-photographic systems	G06-C14+	Mycostats	B12-A02 B14-A04 C12-A02 C14-A04
foams	A11-B06C	Multilayer systems i.e. with multiple conductive layers	L04-C13		
injection	A11-B12+	Multiple sclerosis treatment	B12-C10 B12-E02 B14-S01 C12-C10 C12-E02 C14-S01	Mydriatics	B12-E03 B14-J05B C12-E03 C14-J05B
rotational	A11-B04A				
slush	A11-B04B	Multiply paper material	F05-A06A F05-A06A2	Myeloma	B14-H01P C14-H01P
stereographic	A11-B16	multiply tissue/wipes		Mylar ®	A05-E04+
stereolithographic	A11-B16	Multistep processing in semiconductor manufacture involving conductive and insulating layer formation	L04-C14 L04-C15	Myocardial infarct treatment	B12-F01B B14-F01B C12-F01B C14-F01B
transfer	A11-B11	Multivitamin compositions	B15-Z C15-Z		
with crosslinking	A11-C02D	Muscarinic	B14-J02A2 C14-J02A2	Myopics	B12-E03 B14-J05B C12-E03 C14-J05B
Mouldings, polymeric, ejection of	A11-C06	Muscle contractant	B14-J05C C14-J05C	Myosin	B04-H20C2 C04-H20C2
Moulds		Muscle proteins	B04-H20C+ C04-H20C+	Myotrophics	B12-E02 B14-J05 C12-E02 C14-J05
apparatus for production (for foundry casting)	M22-E	Muscle relaxants	B12-E02 B14-J05A C12-E02 C14-J05A		
chill casting	M22-G03C1				
compositions	M22-A01	Muscular active general	B14-J05 C14-J05		
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)					
for glass	M22-D				
for ingots	L01-E06				
injection	M22-G02B				
of plastics, of polymers	A11-B12B A12-A02 A12-H05 A12-H05				
of rubber					
Moulds, compositions					
surface coating, mould					
Mouth preparations	B12-L04 B14-N05 C12-L04 C14-N05 D08-B08+				

Myotropics	B12-E02 B14-J05 C12-E02 C14-J05	N			Nanostructures, inorganic	B05-U06 C05-U06 E31-U
Myriapods	B04-P01C C04-P01C				Nanostructures (bound to dye or pigment)	E24-U
			N-Acylation reactions	E11-F07D	Nanostructures (containing heteroatoms)	E05-U06
			N-methylol (meth)acrylamide (co)polymers monomer	A04-D04+ A01-D06	Nanostructures (organic)	E05-U07
			N-Propyl acrylates (co)polymers monomer	A04-F06+ A01-D10B	Nanotechnology	B11-C12 C11-C12 J04-F02 A12-W14
			N-vinyl carbazoles (co)polymers monomer	A04-D06 A01-D01	Nanotechnology devices	B12-M10A7 C12-M10A7
			N-vinyl phthalimides (co)polymers monomer	A04-D08 A01-D01	Nanotubes, carbon only	B05-U03 C05-U03 E05-U03 E31-U02 L02-H04B E05-U03B E05-U03C E05-U03A
			N-vinyl pyridines (co)polymers monomer	A04-D07 A01-D01	double-walled multiple-walled single-walled	
			N-vinyl pyrrolidones (co)polymers monomer	A04-D05A A01-D01	Nanotubes, carbon plus heteroatom	B05-U04 C05-U04 E05-U04
			Nadic condensants	A01-E12	Nanowhiskers	E31-U02
			Nafion ®	A04-E09 A04-E10+	Nanowhiskers (carbon only)	E05-U05B
			Nail care preparation	A12-V04C D08-B02 D08-B02C D08-B02A D08-B02B	Naphtha extenders	A08-P08
			Nail disease treatment	B14-N19 C14-N19	Naphthacene	B08-C01 C08-C01 E08-C01
			Nails (or extracts)	B04-B04E C04-B04E	Naphthalene	B10-J02 C10-J02 E10-J02B A01-E
			Nairit ®	A04-B08	condensant	
			Nanobuds (carbon only)	E05-U05D	Naphthalene 1,5- diisocyanate condensant	A01-E02
			Nanocatalyst	N06-C09	Naphthalene dicarboxylic acid	E10-C02C E10-C02C1B E10-C02C2B A01-E11
			Nanocrystals	M26-C02	condensant	
			Nanofilms	E31-U03 B05-U05B C05-U05B	Naphthalene dicarboxylic based saturated polyester	A05-E05A
			Nanofilms (carbon only)	E05-U05C	Naphthalene sulphonic acid condensant	A01-A A01-E
			Nanofilters	J01-C04	Naphthalene sulphonic acid-formaldehyde resin	A05-J08
			Nanoform (morphology) chromophores (general) dyes pigments	E27-B03A E27-B02A E27-B01A	Naphthalenes, vinyl (co)polymers monomer	A04-C05 A01-D03
			Nanohorns (carbon only)	E05-U05D	Naphthol condensant	A01-E13
			Nanomaterials conductive	L03-A01A6 L03-A02G L03-A03N L03-A01C4 L04-A05	Naphtholic couplers, photographic	G06-H08A
			insulative semiconductive		Napkins, baby	A12-V03A F04-C01A D09-C03
			Nanoparticles	E31-U01	shape of	
			Nanoparticles (carbon only)	E05-U05A	Napping of fabrics	F03-A
			Nanophase alloys	M26-C02	Narrow fabrics	F02-E02
			Nanopowder (carbon only)	E05-U05A		
			Nanorods	E31-U02		
			Nanorods (carbon only)	E05-U05B		

Nasal preparations	B12-L04 B14-N04 C12-L04 C14-N04	Needle-free injector	B11-C04E C11-C04E	Neurotropics	B12-E02 B14-J01A4 C14-J01A4
Natriuretics	B12-G03 B14-N08 C12-G03 C14-N08	Needle selection in knitting machines	F02-B01	Neutral refractories	L02-E09
Natta catalysts for polymerisation	A02-A06+	Needling to give non-woven fabrics	F02-C02D	Neutrocyanine/merocyanine spectral sensitisers	G06-H07B
Natural flavouring agents	D03-H01C D03-H01E1	Neisseria	B04-F10A5 C04-F10A5	Neutron counters	K08-A01
food colorant gums	A03-A A03-C02	Nematocides	B12-B02 B14-B03A C12-B02 C14-B03A	flux control (nuclear reactor) moderating and producing	K05-B06A K08-B
resins	A03-C02 G02-B01	Neodymium compounds	B05-A03B C05-A03B	Neutrophil activating protein	B04-H02J C04-H02J
rubber	A03-B	catalysts	N03-A02B	Nibs for pens	A12-D05B
Natural fibrous material		inorganic	E34-E02B	Nickel	
treatment		organic	E05-P	alloys	M26-B08
chemical	F01-B+	Neomycin	B02-N C02-N	alloys, magnetic electrodeposition	L03-B02A4 M11-A02
mechanical	F01-A+	Neon (element)	B05-B02C C05-B02C E31-J	electrodes for batteries production	L03-E01B4 M25-G19
Natural gas	H01-F	Neon compounds	B05-B02C C05-B02C E31-J E05-K	Nickel catalysts	N02-C N02-C01 N06-C
field treatment	H01-F01	inorganic		element	
liquefaction	H01-F02	organic		Raney	
products	H06-A02	Neopentyl glycol condensant	A01-E14	Nickel compounds	B05-A03B C05-A03B E35-W
recondensation systems for	H03-E01	Neoprene		inorganic	
Natural leather, coatings on	A12-B06	(co)polymers	A04-B08	inorganic compound pigment	
Natural polymers	A03-A+ A03-B+ A03-C+ B04-C03D C04-C03D A12-A05A G03-B02A A12-B04C A12-B01D G02-A02A A07-A01+	monomer	A01-C04	organic	G01-A13 E05-L02 E05-L02C
adhesives/binders	A12-A05A G03-B02A A12-B04C A12-B01D G02-A02A A07-A01+	Nephritis treatment	B12-G03 B14-N10 C12-G03 C14-N10	Nickel, Raney, see N6-C also	
coatings on metal	A12-B04C	Neptunium compounds	B05-A04 C05-A04 E35-R E05-Q	Niobium	
coatings/paints	A12-B01D G02-A02A A07-A01+	inorganic		alloys	M26-B13
in polymeric blend	A10-E21A A10-A	organic		Niobium catalysts	N03-C N03-C03 A02-A06+
modified by alkali(ne earth) metal incorporation	A10-E21A A10-A	Nerve gas antidotes	B12-E04 B12-J05 B14-M01 C12-E04 C12-J05 C14-M01	for polymerisation	
Natural polypeptides	A03-C01			Niobium compounds	B05-A03B C05-A03B E35-N E05-M E05-M03A
Natural products (general)	E04			inorganic	
Natural resins	A03-C02 B04-C03D C04-C03D G02-B01 A12-B04C G02-A02A			organic	
for coating metal	A12-B04C	Net fabrics	A12-S05J F02-E03	Nitrates, cellulose	A03-A03 B04-C02A3 C04-C02A3
paints	G02-A02A	Net lace	F02-E01	Nitrates, inorganic	
Natural rubber	A03-B B04-C03D C04-C03D A12-A05A G03-B02B	Net making	F02-E03	general	B05-C02 C05-C02 E31-H D04-B07C
adhesives/binders	A12-A05A G03-B02B	Nets	A12-P07 F02-E03	removal from water	
in polymeric blends	A07-A+ A07-B01	Neurohypophyseal	B04-B02D4 B04-J05 C04-B02D4 C04-J05	Nitrates, organic	B10-A05 C10-A05 E10-A05
latex	A07-B01			Nitration (catalytic)	N07-D08C
Nausea treatment	B14-E05 C14-E05	Neuroleptics	B12-E02 B14-J01B3 C12-E02 C14-J01B3	Nitration of polymers	A10-E24
NBR (acrylonitrile-butadiene rubber)	A04-B04	Neuroprotective	B14-J01 C14-J01	Nitric acid	B05-C02 C05-C02 E31-H
Near infra-red dyes	E24-D	Neurospora	B04-F09B C04-F09B	Nitric oxide	
Nebulizer	B12-M01B3 C12-M01B3	Neurotensin	B04-J15 C04-J15	agonists	B14-L01D C14-L01D B14-L06D C14-L06D
Needles	B11-C02B C11-C02B			antagonists/inhibitors	
				Nitrides	
				abrasive	L02-F03
				ceramic	L02-H02B2
				hard alloy	M26-B12

layers on semiconductors	L04-C12B	Nitrogen oxides, organic	B10-A03 C10-A03 E10-A03B	Non-electrolytic deposition/ coatings	
Nitriding metal				cathode sputtering	M13-G
using gas	M13-D03A			cementation by diffusion	
using liquid	M13-D02A	Nitrolic acid	B10-A03 C10-A03 E10-A03A	processes	M13-D
using solid	M13-D01A			cladding of or with metal	M13-H01
Nitriding metal using		Nitrone	B10-A03 C10-A03 E10-A03A	electroless plating	M13-B
Nitrification inhibitors	B12-N08 C12-N08 C14-T01D			electrostatic coating, general	M13-H06
				electrostatic coatings	M13-H06
Nitrile acrylic		Nitroso compounds, organic	B10-A03 C10-A03 E10-A03C	enamelling/vitreous	
(co)polymers	A04-D03+			coating of metal	M13-J02
monomer	A01-D04			gas plating by	
polymer	A04-D02+	Nitroso dyes	E25-A	decomposition or reduction	M13-E
Nitrile rubber	A04-B04	Nitroso group containing		hot dip metal coating	M13-A
Nitrites, organic	B10-A05 C10-A05 E10-A05	(co)polymers	A04-A04	metal spraying	M13-C
		monomer	A01-A05	metallising from metal	
		NMR analysis of polymers	A09-B	vapour	M13-F
Nitro compounds, organic	B10-G03 C10-G03 E10-G03	NMR diagnosis	B12-K04C2 C12-K04C2	oil free lubricant and	
				friction coatings	M13-K
Nitro dyes	E25-A	NMR testing	B11-C08A B11-C08G2 C11-C08A C11-C08G2	plastics coatings	M13-H05
Nitrocellulose	A03-A03 B04-C02A3 C04-C02A3			refractory coatings, general	M13-H04
		Nobelium compounds	B05-A04 C05-A04 E35-R E05-Q	sintering on or of metal	M13-H02
Nitrogen (element)	B05-C03 C05-C03 E31-H03	inorganic		using adhesives	M13-H03
		organic		vacuum evaporation or	
Nitrogen catalysts	N04-A	Noble gas catalysts	N04-A	Non-ferrous alloys (based on particular metals)	M26-B
Nitrogen compounds,		Noble gases	B05-B02C C05-B02C E31-J	Non-ferrous alloys (changing physical structure)	
inorganic (excluding				changing physical	
ammonia, ammonium)	E31-H	compounds	B05-B02C C05-B02C	properties	M29-E
halogen and/or sulphur				cold working	M29-B
containing	E31-H03	compounds, organic	E05-K	heat treatment	M29-C
other, production	E31-H04	inorganic	E31-J	heat treatment, apparatus	M29-C02
other, use	E31-H05			heat treatment, of	
Nitrogen containing		Noble metals		specific articles	M29-C01
compound crosslinker	A08-C09 A08-D03 A08-D04	alloys	M26-B01	hot working	M29-A
		electrodeposition	M11-A05	special physical treatment	M29-D
		production (excluding silver)	M25-G20	Non-ferrous alloys (production)	
Nitrogen containing				by melting	M26-A
inorganic compounds		Noble metals catalysts	N02	by pressing or sintering	M26-A01
removal from water	D04-B07C	Noise insulation	A12-R06 A12-T04B	by removing material	M26-A02
Nitrogen containing inorganic detergent		in transport		from another alloy	M26-A03
additives	D11-B20	Nomex ®	A05-F05	Non-ferrous metal compounds	
		Non-chocolate candy+		extraction from ore by wet	M25-B
Nitrogen containing mono-		chewy	D03-E10B2	method	
unsaturated monomers		hard	D03-E10A2	Non-ferrous metals (changing physical structure)	
amide	A01-D06	Non-circular fibres	A12-S05A F01-E02	changing physical	
cyclic	A01-D01			properties	M29-E
nitrile (aliphatic)	A01-D04	Non-coding sequences	D05-H12D D05-H12D2	cold working	M29-B
others (not specified above)	A01-D07	antisense sequences	D05-H12D6	heat treatment	M29-C
Nitrogen containing		other	D05-H12D1	heat treatment, apparatus	M29-C02
monoolefinic (co)polymers	A04-D+	primers	D05-H12D1	heat treatment, of	
Nitrogen halides, organic	B10-A02 C10-A02 E10-A02	probes	D05-H12D5	specific articles	M29-C03
		regulation sequences	D05-H12D4	hot working	M29-A
		ribozyme	D05-H12D3	special physical treatment	M29-D
Nitrogen oxides, inorganic	B05-C03 C05-C03 E31-H E31-H	triple-helix forming		treating and testing (other)	M29-E
		Non-combustible polymers	A09-A01	Non-ferrous metals (production)	
		Non-destructive testing of		apparatus	M25-J
production	E31-H04	ferrous metals	M24-E	control/testing	M25-H
removal, catalytic	E31-H01 H06-C03B	non-ferrous metals	M25-H	dry reduction of ore	M25-C
		welds	M23-G	dry reduction of ore, apparatus	M25-C01
removal, other	E31-H02	Non-drying oil derived		dry reduction of ore, methods	M25-C02
use	E31-H05	polyesters	A05-E08	extraction from scrap, flue dust, slag	M25-E

refining by carbonyl reduction	M25-D	intensifying screens	G06-A09	Nuclear explosives	K08-D
refining in a vacuum	M25-F01	intermediate	G06-A10	Nuclear fusion reactors	K05-A03
specific metal by general method	M25-G	magnetic	G06-A12	constructional features	K05-A03C
Non-ferrous ore treatment	M25-A	nucleating	G06-A04	fusion targets	K05-A03B
concentration	M25-A01	protective	G06-A08	plasma containment	K05-A03A
sintering, crushing, roasting, briquetting	M25-A02	receiving	G06-A04	Nuclear hormone receptor	B04-K01X
Non-flammability of polymers	A09-A01	reflective	G06-A11		C04-K01X
Non-ionic detergents	A12-W12+ D11-A03	release	G06-A05	Nuclear magnetic resonance	
Non-iron textile finish		scratch resistant	G06-A08	analysis of polymers	A09-B
non-resinous	A12-S05R	storage phosphors for		testing	B11-C08A
	F03-C04	X-ray material	G06-A09		B11-C08G2
resinous	A12-G02	stripping	G06-A05		C11-C08A
	F03-C04	subbing	G06-A01		C11-C08G2
Non-magnetic layers for magnetic recording	L03-B05K	Non-resinous sizing of fabrics and fibres	A12-G04	Nuclear power	
Non-mammalian extract (general)	B04-B04M C04-B04M	Non-silver metal, radiation sensitive system including	G06-F04	heat exchangers for plant aspects	K06-B
Non-metal additive in glass composition	L01-A07	Non-steroidal nuclear hormone receptors	B04-K01X C04-K01X	steam raising plant for	K06-X
Non-metal compounds	E31	Non-stick coatings	G02-A05D	Nuclear reactors	K05-A
Non-metal conductors	L03-A02A	Non-woven fabrics	A12-S05G F02-C01	accessories	K05-B07
Non-metal/ceramic composites	L02-J02	adhesive or binder bonded polymer-bonded	F02-C01C A12-B02B	materials for	K05-B10
Non-metallic coating of metal by surface reaction	M14-D	production	F02-C02	Nucleating agents for polymer foam	A08-M10
chromate layer	M14-D03	production by air laying	F02-C02F	Nucleating layer, photographic	A08-S07
oxide layer	M14-D01	production by hydroentangling	F02-C02F	Nucleic acid - see also DNA and RNA	B04-B04A1
phosphate layer	M14-D02	production by spunlacing	F02-C02F	detection and analysis of	J04-B03
Non-metallic coating of metal electrolytically	M11-F	production by wet laying	F02-C01A	Nucleosides	B04-B03A
Non-metallic electric conductors	L03-A02	Non-woven pile fabrics	F02-C01A	biosynthesis of	C04-B03A
non-insulated	L03-A02A	Non-woven self-bonded fabrics	F02-C01B1	Modified nucleosides	D05-C06
Non-metallic magnets	L03-B02B	Nonyl phenoxy polyethylene glycol	A10-E08B	Nucleotides	B04-B03D
Non-metals	E31	Noodles	D01-B02E	biosynthesis of	C04-B03D
Non-oxide ceramics	L02-H	Nootropics	B14-J01A4 C14-J01A4	Modified nucleotides	D05-C05
Non-oxide network former, in glass composition	L01-A07B	Norbornene monomer	A01-D13	Nutritional additives, or compositions	B04-B03E
Non-polymer coating on fabrics and fibres (sizes) on polymers	A12-G04 A11-C04+	monoolefinic (co)polymer	A04-G	Nutritional agents	B14-E11
Non-radiation sensitive agent binders	G06-A06	Normalising, ferrous metals	M24-D02B	Nuts (seed)	C14-E11
filter dyes	G06-A02	Norovirus	B14-A02B0 C14-A02B0	extracts	B04-A09F
nucleating	G06-A04	Nose preparations	B12-L04 B14-N04 C12-L04 C14-N04	products	C04-A10G
nuclei	G06-A04	Notched izod impact strength	A09-A05A	Nuts and bolts	C04-A10G D03-Q
screening dyes	G06-A02	Novobiocin	B02-N C02-N	Nuts, treatment of	A12-H12
Non-radiation sensitive copying materials	G05-E	Novolacs	A05-C+	Nylon 11	D03-J02
Non-radiation sensitive layer		Nozzles	J02-C01	dyeing fibres	A05-F03
antihalation	G06-A02	for glass fibre formation	L01-F03B		F01-D03A
antistatic	G06-A03	for metal casting	M22-G03G1		A12-S05N
barrier	G06-A08	NR - see Natural rubber	A03-B		F03-F06+
conversion screens	G06-A09	Nub yarn	A12-S05E F01-E	Nylon 66	F01-D03A
dielectric	G06-A13	Nuclear warfare engineering		dyeing fibres	A12-S05N
electrically conductive (for electrophotography)		protection against	K02-A03		F03-F06+
	G06-A07	Nuclear ceramic oxides	L02-G09	Nylon 6:10	A05-F02
filter	G06-A02	Nuclear engineering (polymer use)	A12-W11C	dyeing fibres	F01-D03A
					A12-S05N
					F03-F06+

Nylon 6:6	
Nylon 66	A05-F02
Nylon fibre filler for polymers	A05-F+ A08-R08A
Nylon fibres dyeing/printing	A12-S05N F03-F06+
Nylons	A05-F+
Nylons modified by alkylation or by alkoxyalkylation	A10-E19
Nystatin	B02-N C02-N

O

O/W dispersion of polymers	A07-B+
Obesity treatment	B14-E12 C14-E12
Octene-1 (co)polymers monomer	A01-D13 A04-G
Odorant for polymers	A08-M04
Odorant treatment of textiles	F03-C09
Oedema treatments	B12-G03 C12-G03
general	B14-C03 C14-C03
Oesophagus disease treatment	B14-E10A C14-E10A
Oestr - see also Estr- Oestrogen inhibitors	B12-G01A B14-D02A C12-G01A C14-D02A
Oestrogen receptors	B04-K01L2 C04-K01L2
Oestrogenic	B12-G04C B14-D01B C12-G04C C14-D01B
Oestrus cycle determination	B12-K04A6 B12-K04G2E C12-K04A6 C12-K04G2E
Office equipment	A12-D05+
Office use, polyethylene in	A04-G02E3 A12-D05+
Office, polypropylene use in	A04-G03E1 A12-D05+
Oil baths, heat treatment of iron and steel	M24-D02C
Oil cloths	
general	F04-B01
with polyurethanes	F04-B01A
with polyvinyl chloride	F04-B01B
Oil lifting equipment	H01-D01
Oil repellant textile treatment non-resinous	A12-S05R F03-C02
resinous	A12-G03 F03-C02
Oil shale production and treatment	H01-D10
Oil testing methods	H01-E03
Oil well	
consolidation	H01-C09
control equipment	H01-B03B
Oil wells (polymer use)	A12-W10+
Oil-in-water dispersion of polymers	A07-B+
Oiling agents for fibres	A08-M03A
Oiling of fibres	F01-H06+

Oils	D10-A
additives, methacrylate antioxidants for	D10-A03
additives, methacrylate antioxidants for, (co)polymer in	A04-F06E3 A12-W02A
chemical modification of	D10-B02
compositions containing cooking(liquid)	D10-A06 D03-C01
dielectrics for cables	L03-A01B
dielectrics for capacitors	L03-B03
dielectrics for transformers	L03-B02D
drying	G02-B03
edible	D03-C
edible(liquid)	D03-C01
essential	D10-A05
extenders	A08-P08
fatty acids from	D10-B01
halogenated	B04-B01A C04-B01A J01-F04X3
filtration	L03-A01B4
insulating for cables	L03-B03D
insulating for capacitors	A08-P08
plasticisers	
pollution of water by, treatment	D04-B02 D04-B03 H03-G H05-L02 D10-A03
preservation, by additives	
production from raw materials	D10-A01
proofing textile - see Oil	
repellant textile treatment	
recovery	A12-W10B
refining	D10-A02
removal from water	A12-W11+ D04-B02 D04-B03 J01-D03
repellants as - see Oil	
repellant textile treatment	
repellants as additives for polymers	A08-S08
repellants as textile finishes/treatment	A12-G03
separation of mixtures of slick control	D10-A04 A12-W11+ D04-B02 D04-B03
textile finishes - see Oil	
repellant textile treatment unhalogenated	B04-B01C C04-B01C
Ointments	B12-M02 C12-M02
Oleandomycin	B02-O C02-O
Olefins	
di-unsaturated polymers	A04-B+
hydrocarbon polymer	
adhesives	A12-A05+
mono-unsaturated monomers	A01
mono-unsaturated, aromatic polymer	A04-C
monomer as crosslinking/ curing agent	A08-C07+

Olefins	B10-J02 C10-J02 E10-J02C	Optical bleaches	A08-E03C E24-A F03-B01 F05-A06D	silicones	A06-A00E4 A12-L+
(co)polymer in polymeric blends	A07-A+	addition to paper		Optically anisotropic melt of polymers	A09-A02A
diolefinic (co)polymers	A04-B+	Optical bleaching of fabrics	F03-B01	Optically anisotropic/ anisotropy of polymers	A09-A02A
diolefinic monomers	A01-C+	polymer	A11-A01+	Optically readable records	A12-L03C
metathesis	E11-H02	Optical brighteners	E24-A	Opto-electronics	A12-E11+
monoolefinic (co)polymers	A04-G+	for detergents	D11-B01		L03-G
monoolefinic monomers	A01-D13	for fabrics	F03-B01	devices	L03-G10
production by disproportionation	E10-J02C2	for paper	F05-A06D	electrophotographic production of materials	G06-D06B L03-G
production by oligomerisation	E10-J02C1	inorganic pigments	A08-E02		
production by other methods	E10-J02C3	organic	A08-E03C		
uses	E10-J02C4	removal from water	D04-B06B	Ordered copolymerisation by addition	A10-C+
Olefins, mono-unsaturated - see Monoolefins		Optical cables		Ore (non-ferrous) treatment concentration	M25-A M25-A01
Oligomerisation equipment	A10-B08 A10-B01	coatings	G02-A05H	sintering, crushing, roasting, briquetting	M25-A02
Oligonucleotides	B04-B03C C04-B03C D05-H12	Optical cables (polymer use)	A12-L03A F04-G01	Ore treatment for iron and steel manufacture	M24-A01
antisense sequences modified	D05-H12D2 B04-B03F C04-B03F	Optical ceramic oxides	L02-G10	Organs, artificial	B11-C04F C11-C04F
primers	D05-H12D1	Optical cards	L03-G04B5	Organ preservation	D09-A03A
probes	D05-H12D1	Optical discs	L03-G04	Organelles/minicells	B04-F12 C04-F12
triple-helix forming	D05-H12D3	coatings	L03-G04B4 G06-D07 A12-L03C	Organic coatings on glass sheet of polymers	L01-G04B A12-B05
Oligosaccharides	B04-C02X C04-C02X	photographic use	A12-L03C	Organic compounds catalyst	N05
Omega-aminocaproic acid condensant	A01-E04	polymer use	F04-G01 L01-L05 G02-A05H	Organic photoconductors for radiation sensitive system	G06-F06
Omega-aminoenanthic acid condensant	A01-E04	Optical fibres	L01-F03F3 A12-L03A	Organic pigments	A08-E04
Omega-aminoundecanoic acid condensant	A01-E04	Optical filters	A12-L03D	Organic semiconductors materials	L04-A04 A12-E07C
On-site foaming of polyurethanes	A11-B06+ A12-S02A	(electro)photographic production of	G06-D06B	polymer use in	
Oncogene	B04-E02G B04-E03G C04-E02G C04-E03G	Optical glass component coating	L01-G04D	Organic substrates	
Onium compounds as disinfectants other than of food or air	D09-A01B	Optical glass fibres	L01-F03M	Metal coatings, processes	M13-F03C
Open cell foams	A12-S+	cable manufacture	L01-F03L	Organic treatment of pigment/filler	G01-B03
Open hearth process	M24-B02B	coating	L01-F03A1	Organic waste fermentation	D05-A04A
Open-end spinning	F01-G05	core and sheath manufacture	L01-F03F1	Organo silane adhesion improvers	A08-M01D
Opening of fibres	F01-F03	cutting and joining	L01-F03H	Organoaluminium + transition metal (compound) polymerisation catalyst	A02-A06C
Ophthalmic lenses	A12-L02A A12-V02A D09-C01A	drawing and spinning	L01-F03G	Organoaluminium compound (not with transition metal/ compound) as polymerisation catalyst	A02-A07C
Ophthalmic preparations	B12-L04 B14-N03 C12-L04 C14-N03	manufacture, multicore and elliptical single core manufacturing apparatus	L01-F03J L01-F03K L01-F03F	Organoantimony compounds	B05-A02 C05-A02 E05-J
Opium alkaloids	B04-A04 C04-A04	preform manufacture with preformed sheath and core	L01-F03F4	Organoarsenic compounds	B05-B01C C05-B01C E05-H
Optical (electro-) uses	A12-E11+	Optical memory elements	L03-G04B	Organoboron compounds	B05-B01A C05-B01A E05-C E05-C01 E05-C02
Optical application of glass	L01-L05	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+ A04-F06E4 A12-L+ A12-L+ A10-E09B2 A12-L+		
		(meth)acrylate (co)polymer			
		polymers			
		PVA			

Organolithium catalysts for polymerisation	A02-A07+	Osteogenesis treatment	B14-N01B C14-N01B	Oxidase agonists	B14-L01A1 C14-L01A1
Organometallic compounds	B05 C05 E05	Osteoporosis treatment	B12-J08 B14-N01A C12-J08 C14-N01A	Oxidase inhibitors	B14-D05A C14-D05A
activator for Ziegler type catalysts	A02-A07A	Other processes, appts.	B11-C09 C11-C09	Oxidation	
catalysts (excluding transition metals)	A02-A07+	Apparatus	B11-C09B C11-C09B	LOCOS	L04-C12C3
complexes (general)	E05-W	Processes	B11-C09A C11-C09A	polymers	A10-E11
condensants (for polymers)	A01-A04			sewage and waste water	D04-B08
monomer	A01-A04			water	D04-A01K
Organophosphorus compounds	B05-B01 E05-G	Oto-rhino laryngology	C12-L04	water using ozone	D04-A01K1
Organoselenium or -tellurium compounds	B05-B01D C05-B01D C05-B01D E05-K	Outerwear	A12-C03 F04-C03	water using other	D04-A01K2 D04-B08
Organosilicon compounds	B05-B01B C05-B01B E05-E	Outlet moulding	A11-B12+	Oxidation base, for dye (general)	E26
Organosols of polymers	A12-S	Ova	B04-F03 C04-F03	Oxidation process	B11-C01 C11-C01 E11-E
Orientation		Oven cleaners	D11-D01B1	for polymers	A10-E11
fibres	A11-B02B F01-C06	Ovicide	C12-B04	other than with air or oxygen (O2) (catalytic)	N07-C03
films	A11-B02A	Ovulation inhibitors	B12-G01 B14-P01B C12-G01 C14-P01B	with air	E11-E01
polymers	A11-B02+			with air (catalytic)	N07-C01
Orlon ®	A04-D02+ A04-D03+ F01-D02			with oxygen (O2)	E11-E01
Orphan G protein coupled receptor	B04-K01 C04-K01	Oxacyclobutanes	B07-A03 C07-A03 E07-A03C A01-E08	with oxygen (O2) (catalytic)	N07-C01
Orthopaedic casts	A12-V03A	condensants		Oxidative polymerisation	A10-D06
Orthophosphoric acid (and salts)	B05-B02A C05-B02A E31-K	Oxadiazole	B07-E04 C07-E04 E07-E04	Oxide catalyst carrier for polymerisation	L02-G12 A02-D
Orthophosphoric acid, alkyl ester	B05-B01P C05-B01P E05-G09C	Oxalic acid	B10-C02 C10-C02 E10-C02D E10-C02D1	Oxide coating of metals by surface reaction	M14-D01
Osmium		Oxanol spectral sensitiser	G06-H07C	Oxide layers for semiconductors	L04-C12A
alloys	M26-B01	Oxathiazine	B07-G C07-G E07-G	Oxide network formers in glass composition	L01-A07A
electrodeposition	M11-A05	Oxathiazole	B07-G C07-G E07-G	Oxides of non-transition metals as polymerisation catalysts	A02-A07+
production	M25-G20	Oxathiole	B07-C C07-C E07-C	Oxides of transition metals as polymerisation catalysts	A02-A06A
Osmium catalysts	N02-E	Oxazine (excluding morpholine)	B07-E02 C07-E02 E07-E02 A01-E06	Oxides, abrasive, harsh	L02-F04
Osmium compounds	B05-A03B C05-A03B E35-X E05-N E05-N02A	condensants		Oxides, inorganic (general)	B05-C08 C05-C08 E31-D L02-G+ L02-G12
inorganic		Oxazole	B07-E01 C07-E01 E07-E01 G06-H09A	preparation	
organic		photographic brighteners		Oxidised polymers	A10-E11
Osmosis	J01-C03	Oxazoli(di)nes condensants	A01-E06	Oxidising agents as crosslinkers	A08-C05 A08-D
in water treatment reverse	A12-W11A	Oxazoline chain couplers for polymers	A02-B	as polymerisation catalysts	A02-A+
Osmotic pump	B12-M01A1 C12-M01A1	Oxepine	B07-A03 C07-A03 E07-A03C	Oxidising agents as disinfectant other than of food or air	D09-A01A
Osteoarthritis treatment	B14-C09A C14-C09A	Oxetane	B07-A03 C07-A03 E07-A03C A01-E08	Oxidising, using gas	M13-D03B
Other condensation polymer coatings	A12-B01V	condensants		Oxidoreductase	B04-B02C2 B04-L03 C04-B02C2 C04-L03
				Oxidoreductase agonists	B14-L01A1 C14-L01A1
				Oxidoreductase enzyme process	D05-A01B1 D05-A02A
				Oxidoreductase inhibitors	B12-G01B1 C12-G01B1

general and other	B14-D05 C14-D05	P		hydroxyalkyl acrylates	A12-B01E G02-A02C2
Oxidoreductase production by fermentation	D05-C03B			addition polymer, other, vinyl halide polymer	A12-B01F G02-A02D2
Oxime	B10-A18 C10-A18 E10-A18 E10-A18A E10-A18B	Package formation of yarns	F01-H03D	addition polymers, other addition polymers, other, diene or polyene polymers	A12-B01C G02-A02D1
Oxirane	B07-A03 C07-A03 E07-A03 A01-E07	Packaging involving heat sealing/welding	A11-C01A1	addition polymers, other, unsaturated aromatic (styrenic) polymers	A12-B01G G02-A02D4
condensant		Packaging materials using films (laminates)	A12-P01A L01-L06 A05-F01E3 A12-P+	addition polymers, other, vinyl ester or unsaturated acid polymer excluding acrylic	A12-B01F A12-B01H G02-A02D3
Oxonium compounds	B10-A01 C10-A01 E10-A01	glass	A12-P+	alkyd resin	G02-A02E
organic		polyamide	A05-F01E3 A12-P+	aminoplasts	A12-B01J G02-A02F
Oxy-diethanol condensant	A01-E14	polyethylene	A04-G02E2 A12-P+	emulsions	A12-B01A
Oxygen (element)	B05-C08 C05-C08 E31-D	polymer	A12-P+	epoxy resins	A12-B01L G02-A02G
in oxidation reaction	E11-E01	polypropylene	A04-G03E1 A12-P+	inorganic film formers	A12-B01C G02-A01+
Oxygen catalyst for polymerisation	A02-A01	saturated polyester	A05-E01D3 A12-P+	inorganic polymer, silicone, or diene/polyene polymers	A12-B01C A12-B01D G02-A02A
Oxygen catalysts	N04-A	Packaging of coffee	D03-D01A L03-J02	natural polymers	G02-A02+
Oxygen halide (organic)	B10-A02 C10-A02 E10-A02	electr(on)ic devices	F04-F04	organic film formers	G02-A02+
Oxygen stabiliser	A08-A06	fabrics	D03-K03	phenoplasts	A12-B01J G02-A02F
Oxygenase agonists	B14-L01A1 C14-L01A1	food	L01-J04	polyesters	A12-B01H G02-A02E
inhibitors	B14-D05C C14-D05C	glass		polymer (general)	A12-B01+
Oxygenating devices (polymer use)	A12-V03B	pharmaceutical and agricultural compositions	B12-M04 C12-M04 G06-E	polyurethanes	A12-B01K G02-A02H
Oxyhalides of transition metals as polymerisation catalyst	A02-A06B	photographic materials	A11-C06	silicones	A12-B01C G02-A01A A12-B01B
Oxytetracycline	B02-T C02-T	plastics	L04-C21	solvents	
Oxytocin	B04-J05A C04-J05A	semiconductor devices	D03-D02A	vinyl ester, or halogen containing addition polymers	A12-B01F A12-B01A
Oxyuris treatment	B12-B02 B14-B03A C12-B02 C14-B03A	tea	F01-H03+	water	A12-D03
Ozone	B05-C08 C05-C08 E31-D	yarns		Paint brushes	
generation	J03-A01	Packaging types	A12-P+	Paint spray booths	
Ozone catalysts	N04-A	aerosol containers	A12-P06A	cleaning/maintenance	G02-A06A
Ozone stabiliser	A08-A05	bags	A12-P02	Paint, based on	
Ozonisation of polymers	A10-E11	blister packs	A12-P06C	general addition polymers	A12-B01W
Ozonised polymer	A10-E11	boil-in-bag packs	A12-D03 A12-P02	general condensation polymers	A12-B01X
		bottles	A12-P06A	Painting, general	A11-B05+ G02-A06+
		boxes, cartons, crates	A12-P06B	Paints	A12-B+ G02-A+
		closures	A12-P03	additives	G02-A03+
		collapsible tubes	A12-P06C	applied to cloth/felts	A12-B02+
		drums	A12-P05	applied to glass/glass fibre	A12-B05
		film and laminates	A12-P01A	applied to inorganic material	A12-B08
		foam use in	A12-S04C	applied to leather	A12-B06
		rigid packs	A12-P06B	applied to metal	A12-B04+
		sachets	A12-P06C	applied to others	A12-B
		sacks	A12-P02	applied to paper	A12-B03
		shrink	A12-P04	applied to polymer	A12-B07+
		tanks	A12-P05	applied to wood/cellulosics	A12-B09
		wrapping film	A12-P01A	chemical removers	A11-C07
		Packing of polymer materials	A11-C06		
		Packing, sealing compositions	A12-R08 G04-B02		
		Pails	A12-D04		
		Paint based on acrylics	A12-B01E G02-A02C		
		acrylics, containing aminoalkyl acrylates	A12-B01E G02-A02C3		
		acrylics, containing epoxy	A12-B01E G02-A02C1		
		acrylics, containing			

general addition polymer	A12-B01W	Paper	A12-W06+	Paraffins (aliphatic hydrocarbon)	B10-J02
general condensation polymer	A12-B01X		B04-C02A		C10-J02
magnetic	L03-B02H		C04-C02A		E10-J02D
pigments (organic)	A08-E04	addition of non-polymer	F05-A+	Parasite	
	G02-A03A	addition of polymer or resin	A12-W06+	microbial	B04-F01
powder forms	A12-B01+		F05-A06C		C04-F01
	A12-S09	coatings on	A12-B03	Parasympathetic blocker	B12-E04
road, traffic signs	A12-R		F05-A06B		B14-J02B
	G02-A05F		G02-A05C		C12-E04
skin	B12-M02	composition	F05-A06+		C14-J02B
	C12-M02	composition, containing polymer		Parasympathetic stimulant	B12-E05
solvent based	A12-B01B		A12-W06+		B14-J02A
water based	A12-B01A		F05-A06C		C12-E05
Palladium		cutting	F05-A05		C14-J02A
alloys	M26-B01	felts, use of fabric	F04-E05A	Parasympatholytic	B12-E04
containing glass	L01-A02B	felts, use of polymer	A12-H04		B14-J02B
electrodeposition	M11-A05	manufacture	A12-W06+		C12-E04
production	M25-G20		F05-A+		C14-J02B
Palladium catalysts	N02-F	manufacture, fibreboard	F05-A07	Parasympathomimetic	B12-E05
element, not on C	N02-F02	multiply	F05-A06A		B14-J02A
element, on C	N02-F01	testing	F05-A05		C12-E05
for polymerisation	A02-A06+	Paper making machine	A12-H+		C14-J02A
Palladium compounds	B05-A03B		F05-A04+	Parathyroid hormone	B04-B02D3
	C05-A03B	accessories	F05-A05		B04-J04B
carboxylate catalysts	N02-F04	complete	F05-A04D		C04-B02D3
inorganic	E35-X	dewatering	F05-A04B		C04-J04B
inorganic salt catalysts	N02-F03	embossing equipment	F05-A05B	Paresis	B12-E02
organic	E05-M	forming equipment	F05-A05B		C12-E02
	E05-M02C	head boxes	F05-A04A	Parisons	
Palladium in glass composition	L01-A02	methods of producing paper	F05-A04+	(pre)heating of	A11-A02B
Pallets	A12-T	press and drier sections	F05-A04C	blow moulding of	A11-B10
Pancakes	D01-B02F	stamping equipment	F05-A05B	glass, formation	L01-E02
Pancreas treatment	B14-N13	testing equipment	F05-A05A	Parkinson's disease	
	C14-N13	wet end, general	F05-A04A	Parkinson's disease treatment	B12-C04
Pancreas, artificial	D09-C01C	Paper making process			B14-J01A3
Pancreatic hormone	B04-B02D2	addition polymer in pulp (cellulosic)	A12-W06B		C12-C04
	C04-B02D2		F05-A06C		C14-J01A3
Pancreatic hormone general	B04-J03	cleaning/sterilisation of equipment	F05-A04E	Partially hydrolysed	
	C04-J03	condensation polymer in pulp (cellulosic)		ethylene-vinyl acetate copolymer	A10-E09+
Pancreatitis	B14-N13		A12-W06C	polyvinyl acetate	A10-E09+
Pancreozymin	B04-J13	from non-cellulosic polymer	A12-W06A	Particle accelerator, use of electro(in)organics	L03-H04D
	C04-J13		F05-A06E	Particle board	F05-A07
Panels		mechanical treatment of fibrous raw material	F05-A01	polymer use in	A12-A04B
decorative laminate	A12-A04A	methods	F05-A04	Particle engineering	B11-C13
furniture	A12-D01	natural polymer in cellulosic pulp	A12-W06D		C11-C13
of reinforced polymer	A12-S08A	polymer use in, general	A12-W06+	Particle counters	
solar	A12-R02B		F05-A06C	for neutrons	K08-A01
wall, ceiling	A12-R07	pretreatment of digested material	F05-A03	for charged particles	K08-A02
Panes, window	A12-R04	pulp after-treatment	F05-A02B	for gamma and cosmic rays	K08-A03
Pans	A12-D03	pulp purification	F05-A03	for X-rays	K08-A04
Pantographs	L03-A01A4	pulping	F05-A02A	Particles	E12-A08
Pants, baby	A12-V03A	regeneration of pulp liquor	F05-A02C	Particles of polymers	A12-S09+
	D09-C03	testing	F05-A05A	Particulate forms	E12-A08
Panty hose	F04-C01	PAPI condensant	A01-E02	Parylene ®	A05-J
	F04-C02	Papier-mache, manufacture of articles	F05-A07	Passivating and insulating layers for semiconductor devices	L04-C12
Papain	B04-B02C3	Parachutes	F04-E02	Passivating layers, glass for semiconductor devices	L04-C12D
	B04-L05C	Paraffin wax	B04-B01C		
	C04-B02C3		C04-B01C		
	C04-L05C	lubricant	A08-M03+		
Papaverine	B04-A04				
	C04-A04				

Passivating layers, plastics for semiconductor devices	A12-E07C L04-C12E	Penicillins	6-acetamido other	B02-P03 C02-P03	Permeability property of polymer	A09-A09
Passivation coating of metal chromate layer	M14-D	6-acetamido, alpha-substituted by N-atom		B02-P02	Permeability reducers	A12-W10C
oxide layer	M14-D03			C02-P02	Permeable membranes	A12-W11A J01-C03
phosphate layer	M14-D01	general		B02-P	for water treatment	D04-A01D
Passive deodorisation/disinfection	M14-D02			C02-P	Per mucosal administration	B12-M11F C12-M11F
	D09-B01C	Pens		A12-D05B		
Pasta	D01-B02E	Pentacene		B08-B	Peroxidases	B04-L03B C04-L03B
Paste	A12-S10			C08-B	agonists	B14-L01A1 C14-L01A1
	B12-M02			E08-B		B14-D05B C14-D05B
polymeric coating process	C12-M02	1,3 Pentadiene (co)polymers	E10-J02C		inhibitors	
Pasteurising food	A11-B05D	monomer	A04-B			
Pastilles	D03-H02		A01-C05		Peroxide catalysts	N04-A
	B12-M01	Pentaerythritol condensant	E10-E04H3		catalysts, polymerisation crosslinkers	A02-A01 A08-C05 A08-D
	C12-M01	tetraacrylate (co)polymers	A01-E14			
Pastry products	D01-B02D	tetraacrylate monomer	A04-A03		redox catalyst for polymerisation	A02-A03
Patient compliance methods	B11-C11A		A01-B03		Peroxide disinfectants (not of food or air)	D09-A01A
	C11-C11A	Pentane volatile blowing agent		A08-B04B	Peroxide, inorganic (general)	B05-C08 C05-C08 E31-E
Pathology (polymer use in)	A12-V03C2	Penton ®	A05-H		Hydrogen peroxide	E31-E01
Pattern cards for (including design)		Pepsin antagonist	B12-G01B3		Inorganic peroxide (general)	E31-E05
knitting machines	F02-B01		B14-D07C		Perborate	E31-E04
looms	F02-A02		C12-G01B3		Percarbonate	E31-E02
			C14-D07C		Persulfate	E31-E03
Pattern control in knitting	F02-B01	Peptide hydrolases	B04-L05C		Peroxide, organic	B10-A04 C10-A04 E10-A04B+
weaving	F02-A02		C04-L05C		Peroxide, vulcanising agent (addition polymers)	A08-C05
Pattern plates	M22-C02	Peptide nucleic acid	B04-E10		Peroxisome proliferator activated receptor	B04-K01X1 C04-K01X1
			C04-E10		Persalts - see also Peroxide crosslinker	A08-C05 A08-D A02-A01
Patterning processes for printed circuits	L03-H04E2		D05-H12D9		polymerisation catalyst	A02-A03
Patterns, foundry	M22-C	Peptising agents for polymers	A08-M08		redox catalyst for polymerisation	A02-A03
Patterns, lost	M22-C01	Peracid, inorganic (general)	B05-C08		Personal face/body wash	D08-B09A2 D08-B09A2A D08-B09A2B
Paving compositions	A12-R09		C05-C08		Liquid	D08-B09A2A
PBT	A05-E04+	Perchlorinated polymers	E31-E		Solid	D08-B09A2B
fibres	F01-D04	Perchlorination	A10-E04A		Personal care compositions	D11-D01J
PCTFE	A04-E10D	Perchlorovinyl polymer	A10-E04A		Personnel dosimeter	K07-A01
PE	A04-G02+	Percutaneous	B12-M02F		Perspex ®	A04-F06+
			C12-M02F		Persulphates - see also Peroxide crosslinker	A08-C05 A08-D A02-A01
Peat	B04-A07D1	Perfluoroalkyl acrylate polymers	A04-E10D		polymerisation catalyst	A02-A03
	B04-A09J				redox catalyst for polymerisation	A02-A03
	C04-A07D1	Perfluoroalkyl methacrylate polymers	A04-E10D		Personal face/body wash	D08-B09A2 D08-B09A2A D08-B09A2B
	C04-A09J				Liquid	D08-B09A2A
	H09-B				Solid	D08-B09A2B
Pectin	B04-C02D	Perforating polymers	A11-A05A		Personal care compositions	D11-D01J
	C04-C02D	Perfumes	B12-L07		Personnel dosimeter	K07-A01
Peek ®	A05-J10		B14-R04		Perspex ®	A04-F06+
Pellet	B12-M11D		C12-L07		Persulphates - see also Peroxide crosslinker	A08-C05 A08-D A02-A01
	C12-M11D		C14-R04		polymerisation catalyst	A02-A03
	E12-A06		D10-A05		redox catalyst for polymerisation	A02-A03
Pelleting of polymers	J04-A05	in air (masking)	D09-B04		Pesticide (general)	B12-N01 B14-B01 C12-N01 C14-B01 B12-J05D B14-M01E C12-J05D C14-M01E
	A11-A04	in cosmetics	D08-B12			
		in detergents	D11-B23			
Pellets as carriers for microorganisms	D05-A03A	Perhalate (organic)	B10-A02			
			C10-A02			
Pellicle design/manufacture	L04-C06A1		E10-A02			
Pellets	A12-R02	Periodontal treatment	B14-N06B			
Pelt shearing machine	D07-A		C14-N06B			
Pencil (lead)	G02-A04	Peripheral vascular disorder treatment	B14-F02F+			
containing polymer	A12-D05B		C14-F02F+			
Pendant device	B12-M10A5	Perlon ®	A05-F03			
	C12-M10A5					

use of polymers	A12-W04C	Phenol, condensant	A01-E13	Phosgene condensant	A01-E12
PET	A05-E04+	Phenol, thio - see also		Phosphate coating of metal	
dyeing of	F03-F07+	Thiophenol	B10-E01	by surface reaction	M14-D02
fibres, chemical features of	F01-D04A		C10-E01	Phosphate glass compositions	L01-A07A
pH Monitoring	J04-C02A		E10-E01+	Phosphates plasticisers/ extenders	A08-P05
Petroleum		Phenolic		Phosphates see also	
chemicals general	A01-B04	compound removal from		Phosphorus compounds	
coke	H08-E02	water	D04-B06A	Phosphatides	B04-B01B
fuel additives	A12-T03B	condensants	A01-E13		B05-B01P
	H06-D	crosslinkers for other			C04-B01B
liquid paraffin	B04-B01C3	polymers	A08-D		C05-B01P
	C04-B01C3	crosslinkers for			D03-F07
nuclear applications to	K09-H	unsaturated polymers	A08-C09		
product, miscellaneous	H08-E	disinfectants (not food		Phosphide ceramic	L02-H03
resins	A03-C04	or air)	D09-A01B	Phosphodieseterases	B04-L05A1
resins, in polymeric blend	A07-A01A	fibres	A05-C+		C04-L05A1
resins, production	A10-A		A12-S05+	Phospholipids	B04-B01B
Phage lambda	B04-F11	Phenols, glycidyl ethers of	A05-A02		B05-B01P
	C04-F11	Phenoplast	A05-C+		C04-B01B
Phage display libraries	B11-C10D	adhesives	A12-A05D		C05-B01P
	C11-C10D		G03-B02E1		D03-F07
Phagemids	B04-E08	coatings, paints, varnishes	A12-B01J	Phosphonitrile linear polymers	A06-B
	B04-F11		G02-A02F	Phosphonitrilic halides	
	C04-E08	electrophotographic use	A05-C01B2	condensants/monomer	A01-A02
	C04-F11	fibres	A05-C+	Phosphonium compounds	
Phagocytosis treatment	B12-D02	fibres, chemical features of	A12-S05+	aliphatic or alicyclic	B05-B01G
	C12-D02	foams	F01-D10		C05-B01G
Pharmaceutical antidote		from monohydric phenol	A12-S03		E05-G03A
general	B14-M02	and aldehyde (excluding		aromatic	B05-B01F
	C14-M02	formaldehyde)	A05-C04		C05-B01F
Pharmaceutical composition		from monohydric phenol		heterocyclic	E05-G02
general	B12-M05	and formaldehyde	A05-C03+		B05-B01E
	C12-M05	from polyhydric phenol	A05-C02		C05-B01E
machine for producing	B11-C05	in polymeric blends	A07-A+		E05-G01
	C11-C05	photographic use	A05-C01B2	Phosphorus (element)	B05-B02A3
Pharmaceuticals	A12-V01	resins	A05-C01+		C05-B02A3
Pharmacogenomics	B12-Q01A	resins, compositions/ production	A05-C01A	production	E31-K04
	C12-Q01A	resins, uses	A05-C01B+	use	E31-K07
Pharynx cancer	B14-H01F	specific others	A05-C	Phosphorus catalyst	N04-B
	C14-H01F	Phenothiazine	B06-F04	for polymerisation	A02-A+
Phenanthrene	B08-D02		C06-F04	Phosphorus compounds	
	C08-D02	Phenoxazine	E06-F04	inorganic	B05-B02A
	E08-D02		B06-E04		C05-B02A
Phenanthridine	B06-D13		C06-E04		E31-K
	C06-D13	Phenoxy resins	E06-E04	inorganic, removal from	
	E06-D13		A05-H06	water	D04-B07B
Phenanthroline	B06-D15	Phenyl acrylate homopolymer	A04-F06+	organic	B05-B01
	C06-D15	Phenyl amine condensant	A01-E05		E05-G
	E06-D15	Phenyl methyl ketone		Phosphorus containing	
Phenazine	B06-D14	crosslinker for other		condensant	A01-A02
	C06-D14	polymer	A08-D	cross-linker (including	
	E06-D14	crosslinker for		polymer)	A08-C+
Phenol	B10-E02	unsaturated polymer	A08-C		A08-D05
	C10-E02	photocatalyst for		detergent additive, inorganic	D11-B21
	E10-E02B	polymerisation	A02-A09	detergent additive, organic	D11-B18
	E10-E02B1	Phenyl naphthylamine		flame retardant for polymers	A08-F03
	E10-E02E	antioxidant	A08-A06	flame retardant for textiles	F03-C03A
	E10-E02E1	Phenylene diamines		monomer	A01-A02
Phenol based		condensants	A01-E05	plasticiser (esters)	A08-P05
aldehyde resin (excluding		Phenylene dichloride		polymer	A06-B
formaldehyde)	A05-C04	condensants	A01-E	Phosphorus containing	
formaldehyde resin	A05-C03+	condensants		aliphatic (or alicyclic)	
ketone resin	A05-C	Phillips-type catalysts	A02-A06+	compounds	
terpene resin	A05-J	Phlogistic	B14-C05	with P-C bond	B05-B01G
Phenol blocking agent	A02-C		C14-C05		C05-B01G
					E05-G03

with P-halogen bond	B05-B01H C05-B01H E05-G03A	polymer	G06-F03A	polymers	A08-D+
with P-N bond	B05-B01L C05-B01L E05-G06	Photocopying, electrostatic	A12-L05+	crosslinkers for unsaturated polymers	A08-C+
with P-O (or S) bond	B05-B01P C05-B01P E05-G09	Photocrosslinking	A11-C02B	Photomasking	
Phosphorus containing aromatic compounds		Photodevelopable material for photosensitive system	G06-C07	opto-electronics printed circuits	G06-D06B G06-D06A G06-E02 L03-H04E2 G06-D06A G06-E02 L03-H04E2
with P-C bond	B05-B01F C05-B01F E05-G02	Photodiodes	A12-E11A	semiconductor	
with P-halogen bond	B05-B01H C05-B01H	Photoelectric cells	A12-E11B		
with P-N bond	B05-B01K C05-B01K E05-G05	Photoelectric elements (production)	G06-D06		
with P-O (or S) bond	B05-B01N C05-B01N E05-G08	Photoelectric materials	L03-G09J	Photopolymerisation of addition (co)polymers	A10-B06
Phosphorus containing heterocyclic compounds		Photographic agent (miscellaneous)	G06-H+	Photoresists	G06-D04 G05-B
with P-C bond	B05-B01E C05-B01E E05-G01	apparatus	A12-L02A	printing	
with P-halogen bond	B05-B01H C05-B01H	binder	A12-L01 A12-L05D	Photoresists (polymer use)	A12-L02+
with P-N bond	B05-B01J C05-B01J E05-G04	equipment	A12-L02A	Photoresists materials	L03-G09P
with P-O (or S) bond	B05-B01M C05-B01M E05-G07	film support	A12-L01	for printed circuit boards	L03-H04E2
Phosphorus incorporated/ incorporation by polymer modification	A10-E20	material	A12-L02+	for semiconductor	L04-C05
Phosphorus oxide	B05-B02A3 C05-B02A3 E31-K04 E31-K07 E31-K01	material, composition for electrical device	A12-L02B2	Photosensitive materials microencapsulated	A12-L02+ G06-C16
production		material, composition for printing plate	A12-L02B1	Photosensitive polymer for radiation sensitive system	A12-L02+ G06-F03+
use (excluding catalysts)		material, compositions containing other	A12-L02E	additives for (e.g. photosensitisers)	G06-F03D
use in catalysts		photosensitive polymer material, compositions containing unsaturated monomer	A12-L02C	light sensitive composition containing monomer	G06-F03B
Phosphorylation	A10-E20	material, compositions containing unsaturated polymers	A12-L02D	light sensitive polymer containing compositions	G06-F03C
Photocatalysts	J04-E04B A02-A09	process, general	A12-L02+	polymeric photoconductors	G06-F03A
for polymerisation		process, general, apparatus (including lenses)		resin system development system (type)	G06-G17 G06-C+
Photocatalytic apparatus	J04-E09C	support	A12-L02A A12-L01 G06-B+	Phototransistors	L04-E01G
Photochemical process	B11-C01 C11-C01 E11-P	Photographic use of (meth)acrylamide (co)polymers	A04-D04A1 A12-L+	Photovoltaic devices, photoelectric cells but see L03-E05 for solar cells	L04-E05D
Photochromic dye precursor	E26 E26-B	(meth)acrylate (co)polymers	A04-F06E4 A12-L+	Phthalate plasticisers	A08-P02
Photochromic materials	G04-A01 L03-G09R	phenoplasts, general	A05-C01B2 A12-L+	Phthalate, cellulose	A03-A03 B04-C02A3 C04-C02A3
Photoconductive polymer for electrophotography	A12-L05B G06-F03A	polyamides	A05-F01E3 A12-L+	Phthalates, diallyl (co)polymers monomer	A04-B09 A01-C01
Photoconductors polymeric	L04-E05B A12-L05B G06-F03A	polyethylene	A04-G02E3 A12-L+	Phthalazine	B06-D06 C06-D06 E06-D06
Photoconductors for radiation sensitive system	G06-F+	polypropylene	A04-G03E1 A12-L+	Phthalethrin	B04-A07C C04-A07C
inorganic	G06-F07+	PVA	A10-E09B2 A12-L+	Phthalic (iso-, ortho- and tere-) condensant	A01-E11
inorganic, containing zinc oxide or selenium	G06-F07A G06-F06	silicones	A06-A00E4 A12-L+	Phthalic acid	B10-C02 C10-C02 E10-C02C E10-C02C1B E10-C02C2B
organic		Photographically active materials released on processing, excluding dyes	G06-C15	condensant	A01-E11
		Photography nuclear applications to	A12-L+ K09-G	Phthalic anhydride condensant	E06-A02 A01-E11
		Photography, special techniques	G06-E+	Phthalic condensants	A01-E11
		Photohardening	A11-C02B	Phthalimides, vinyl (co)polymers monomer	A04-D08 A01-D01
		Photoinitiators catalysts for polymerisation	A02-A09	Phthalocyanine dye water insoluble	E23 E23-B
		crosslinkers for other			

water soluble	E23-A	organic	A08-E04	Pitch	A03-C03
water soluble, non-reactive	E23-A02		E21	in polymeric blend	A07-A01A
water soluble, reactive	E23-A01		E22		
Phylloquinone	B03-J		E23	Pitches, sports	A12-F01A
	C03-J		E24	Pituitary gland hormones	B04-B02D4
			E25		B04-J05
Physical process (general)	E11-R	organic, for ink, crayons	G02-A04B		C04-B02D4
Physical properties, testing	A09-C	organic, for paint	G02-A03A		C04-J05
Physical treatment of pigment/filler	G01-B01	polymeric, for ink treatment of	A12-W07E	Pizza bases	D01-B02D
			G01-B+	Placenta extract	B04-B04H
Physical treatment of pigment/filler	G01-B01	Pile			C04-B04H
Physical vapour deposition		cutting (fabrics)	F03-A	Plaiting of fibres	F02-E01
of ceramics	L02-A02B	fabrics	A12-S05J	Planes	A12-T+
of metal	M13-F	Pile fabrics	A12-S05J	Planographic printing plate	A12-W07+
Physiological amelioration of potable water by specific additives	D04-A04		F02-G03		G05-A01
Physiological response in animals or plants test	B11-C08E2	Piles treatment	B12-J04	Plant extract general	E04-A
	C11-C08E2		B14-E04	Plant or vessel scale, prevention of	
Phytohormone	B12-P04	Pill resistant fabric treatment non-resinous	C12-J04	Plant pots	A10-G02
	C12-P04		C14-E04		A12-W04A
	C14-U01C	resinous		Plant repellents (additive for polymer)	A08-M02
Pi bonded complex catalyst	N05-B		A12-S05R	Plants	
Picene	B08-B	Pilling prevention in fabrics	F03-C04	Angiosperms	B04-A08C2
	C08-B		A12-G02		C04-A08C2
	E08-B		F03-C04	antibodies to	B04-G10
Pickling foods	D03-H02D	Pillows	F03-C04		C04-G10
Pickling metal with solutions or molten salts	M12-A		A12-D01	Bryophytes	B04-A08A
apparatus	M12-A04		F04-D01		C04-A08A
disposal/regeneration processes	M12-A03	Pills	A12-V01	cells	B04-B04A2
solutions/salt mixtures	M12-A05		B12-M11		B04-F08
solutions/salt mixtures, inhibitors for	M12-A01	Pilo erecting	C12-M11		C04-B04A2
Picture frame	A12-D		B12-L05	extract general	C04-F08
Piezochromic dye (general)	E26		B14-R02		B04-A07F
Piezoelectric		Pipeline	C12-L05	extracts general and other	C04-A07F
ceramic oxides	L02-G07B	accessories	C14-R02		B04-A10
compositons	A12-E15	control	H03-B03	growth regulant (general)	C04-A10
devices	A12-E15	fluid loss additive	J06-C02		B12-P01
	L03-G10	installing	H03-B01	growth regulants	C12-P01
material	L03-G09A	repair	H03-B02	Gymnosperms	C14-U01
polymer use	A12-E15	system	H03-B04		B04-A08C1
transducers	L03-G10A	testing	J06-C01	polysaccharides	C04-A08C1
Pig casting	M22-G01	transporting oil or gas	H03-B03		B04-C02D
Pig iron production by processing iron	M24-B01A		H03-B	preservation	C04-C02D
Pig production, blast furnace by applying additives	M24-A02	Piperazine	B07-D11	produced by tissue culture	D09-A03B
making slags of special composition	M24-A02A		C07-D11		B04-A07D5
	M24-A02B	condensant	E07-D11		B04-A08
Pigmenting	A11-A01+		A01-E05	protection from poisons	C04-A07D5
Pigments	A08-E+	Piperidine	B07-D05		C04-A08
ceramic	L02-G04		C07-D05	protein	B12-J05E
compositions containing polymer	A12-W11H	condensant	E07-D05		B14-M01F
for dyeing/printing fibres	F03-F17	Piperylene (co)polymers	A01-E05		C12-J05E
formulations	E27-A01	monomer	E10-J02C		C14-M01F
inorganic	A08-E02		A04-B	Pteridophytes	B04-B04A4
	G01-A+	Pipes - see also Hoses	A01-C05		B04-N01
magnetic morphology of	L03-B05D1	fittings	A12-H02+	sap	C04-B04A4
	E27-B01	forming	A12-H02C		C04-N01
		lining process	A11-B08C		B04-A08B
		lining product	A11-B09A		C04-A08B
		mill (metal rolling)	A12-H02D		B04-A07D4
			M21-A03		B04-A09H
		Piscicide	B12-N05	stems	C04-A07D4
			B14-B11		B04-A09H
			C12-N05	whole	C04-A07D4
			C14-B11		C04-A09H
		Piston rings	A12-H08		B04-A07D5
					C04-A07D5

whole plants general and other	B04-A08 C04-A08	ester, aromatic, (excluding phthalate)	A08-P03	Plutonium compounds	B05-A04 C05-A04
whole tobacco	B04-A08C2 C04-A08C2	ester, hydroxy acid	A08-P06	inorganic	E35-R
Plasma		ester, inorganic	A08-P05	organic	E05-Q
arc welding or cutting	M23-D01	ester, Phosphorus containing	A08-P05	Plying of yarns, fibres	F01-H01
containment (fusion reactors)	K05-A03A	oils	A08-P08	Plywood	A12-A04C F05-B
deposition (or ion) for semiconductor processing apparatus	L04-D04	photographic phthalate	G06-H15 A08-P02	PMMA	A04-F06+
deposition in semiconductor layer growth	L04-C01B	waxes	A08-P08	Pneumatic laying of non- woven fabrics	F02-C02+
semiconductor layer growth apparatus	L04-D04B	Plastics		Pneumatic tyres	A12-T01+
etching of semiconductors	L04-C07D	ceramic composite	L02-J02B	Poisoning by heavy metal treatment	B12-J05C B14-M01D C12-J05C C14-M01D
polymerisation	A10-B	coating on glass	A12-B05 L01-G04		
reactors	J04-X01	coating on metal	A12-B04+ M13-H05		
spraying (flame) refractory or ceramic	L02-A06	nuclear applications	A12-W11C K09-A	Polarisers	
spraying metal	M13-C	passivating layers for semiconductor devices	A12-E07C L04-C12E	for liquid crystal displays	L03-G05B7B
techniques	K08-F	storage	A11-C06	Polarity, optical	A09-A02A
techniques, application of electro(in)organic materials	L03-H04D	substrates for printed circuits	A12-E07A L03-H04E1	Polarography testing	B11-C08B C11-C08B
treatment of polymer surfaces	A11-C04E	Plastification	A11-A03+	Polaroid ® - type development	G06-E03
Plasma (blood) substitute	B12-H06 B14-F11 C12-H06 C14-F11	Plastisol	A12-S10	Polishing	
Plasmids	B04-E08 C04-E08	Platelets	B04-F13 C04-F13	glass	L01-G06
Plasmin	B04-B02C3 B04-L05C C04-B02C3 C04-L05C	Platens, flat, pressing between	A11-B13	metal, electrolytic	M11-H02
Plasminogen	B04-B02C B04-L05C C04-B02C C04-L05C	Plates		metal, non-electrolytic	M14-B
Plasminogen activator	B04-H15 C04-H15	magnetic recording	L03-B05B	polymer	A11-C04
Plaster (building) board	L02-D01 A12-R01A L02-D07	printing	A12-W07+	Polishing composition (excluding French)	A12-B01+ G02-C
Plaster (medical)	A12-V03A B12-M02 C12-M02 D09-C04A	tableware	A12-D03	abrasive	A12-A03 G04-B04 L02-F G02-B05
casts	A12-V03A	Plating - see also Chemical plating, Electrodeposition and Non-Electrolytic deposition/coatings		French	
dental	D08-A06	Plating bath additives	A12-W12E	Pollen	B04-A09C C04-A09C
sticking	B12-M02D C12-M02D	Plating of polymers with metal	A11-C04B1	extracts	B04-A10D C04-A10D
Plastic coatings on glass sheet	A12-B05 L01-G04B	Platinum		Pollution control	
Plastic mixing	A11-A03+	alloys	M26-B01	marine oil	H03-G01
Plasticisation	A11-A03+	containing glass	L01-A02B	oil	D04-B
Plasticisers	A08-P+	electrodeposition	M11-A05	processes	A11-C07
coal tar fractions	A08-P08	in glass composition	L01-A02	refineries	H05-L
concrete additive	L02-D14E	production	M25-G20	relative to use of fuels	H06-C
epoxy compound	A08-P07	Platinum catalysts	N02-F	Soil contamination	H03-G02
ester, aliphatic, (excluding hydroxy acid)	A08-P04	carboxylate	N02-F04	storage and transport	H03-G
		element, not on C	N02-F02	use of polymer	A12-W11+
		element, on C	N02-F01	using coagulants	A12-W11E
		inorganic salts	N02-F05	using coagulants, for water	D04-A01B
		Platinum compounds	B05-A03B3 C05-A03B3	using flocculants	A12-W11E
		inorganic	E35-X	using flocculants, for water	D04-A01B
		organic	E05-N E05-N02C	using poly-electrolytes	A12-W11E
		Pleating of fabrics	F03-A01	water treatment	A12-W11J
		Plexifilaments	F01-E02	Polonium catalysts	N03-H
		Plexiglas ®	A04-F06	Polonium compounds	B05-A04 C05-A04
		Plugging, well (polymer use)	A12-W10C	inorganic	E35-R
		Plumbic, plumbous compounds - see Lead		organic	E05-Q
				Poly (4-vinyl-N-butylpyridinium bromide) (modified polymer)	A10-E19
				Poly (chloromethyl substituted styrene) quaternised using tertiary amine	A10-E19

Poly(1,3- imidazolidine dione-2, 4,5-trione)	A05-J02	Polyamine, with aromatic amino	B10-B01A C10-B01A E10-B01A	Polycarbonates compositions	A05-E06+ A05-E06A F01-D04
Poly(2,6-dimethyl-1,4-phenylene oxide)	A05-H07A			fibres, chemical features of	
Poly(4-methylpentene- 1) (co)polymers	A04-G10	Polyamine, without aromatic amino	B10-B01B C10-B01B E10-B01B E10-B01E	fibres, chemical features of, dyeing of	A12-S05N F03-F07+ A07-A+
Poly(alkyl vinyl ketones)	A04-F03			in polymer blends	A12-S05Q F03-F07+
Poly(meth)acrylates in polymeric blends	A07-A+	with carboxy deriv	E10-B01C+	printing of	A05-E06A A05-E06B
Poly(N-methylol-methacrylamide)	A04-D04+	with Hydroxy, ether	E10-B01D	production uses	
Poly-p-xylylene resin	A05-J	with Mercapto(ether)	E10-B01D	Polycarboranes	A06-C
Polyacetal resin	A05-H02+ A05-H02A	Polyamine- polymaleimide polymers	A05-J11	Polycarboxy methylene	A04-A03 A04-F04+
Polyacrolein	A04-F02	Polyaminoamide (Versamid)	A05-F04	Polycarboxylic acid	B10-C02 C10-C02 E10-C02
Polyacrylamide - see also Acrylamide, polymer	A04-D04+	Polyaminoamides from polymerised vegetable oil acids and polyamines	A05-F04	Polycarboxylic condensants (cyclo)aliphatic	A01-E12 A01-E11
Polyacrylate polymer paint	A12-B01E G02-A02C+	Polyaminobismaleimide	A05-J11	aromatic	
		Polyammonium methacrylate	A04-D09	Polychloroalkane	E10-H02H E10-H03C4 E10-H04C4
Polyacrylic acid or anhydride - see also Acrylic acid or anhydride polymer	A04-F04+	Polyanhydride	A05-J03	Polychloroalkene	E10-H02G E10-H03C3 E10-H04C3
Polyacrylic ester - see also Acrylate, alkyl polymer	A04-F06+	Polyarylate	A05-E10	Polychloroalkyne	E10-H02G E10-H03C3 E10-H04C3
Polyacrylonitrile - see also Acrylonitrile, polymer	A04-D02+	Polyarylene ethers	A05-H07A	Polychloroprene	A04-B08
Polyacryloyl chloride	A04-E	Polyarylene sulphides	A05-J05A	Polychlorotrifluoro-ethylene	A04-E10D
Polyalkenamers	A04-G	Polybasic (acid) condensant (cyclo)aliphatic	A01-E12 A01-E11	Polyclonal Antibodies	D05-H11B
Polyalkylene oxide detergents	A05-H+ A12-W12+ D11-A03A	aromatic		Polycondensation apparatus and equipment	A10-D+ A10-D04 A10-D06 A10-D05 A10-D01 A10-D02 A10-D03
Polyalkyleneimine	A05-J07	Polybenzimidazo- pyrrolones	A05-J02	electrolytic/exidative esterification	
Polyallomer	A04-G06+	Polybenzimidazoles	A05-J02	interfacial ordered	
Polyallyl (2 double bonds) sucrose	A04-A03	Polybenzobisthiazole	A05-J02	ring-closure, ring-opening	
Polyallyl alcohol	A04-F	Polybenzothiazole	A05-J02	Polycrystalline layers in semiconductor processing	see also L4-C10B L03-C04
Polyamic acid	A05-J01+	Polybenzothiazolene	A05-J02	Polycyanide (organic)	B10-A15 C10-A15 E10-A15A
Polyamide imides	A05-F A05-J01+	Polybenzoxazoles	A05-J02	Polycyanurates from dicyanates	A05-J02
Polyamideester	A05-E07	Polybenzyl acrylate	A04-F06+	Polycyclic quinone dye	E22-E
Polyamides (nylons)	A05-F+ B04-C03D C04-C03D A05-F05 A08-C08 A08-D04 A05-F01C A05-F+ A08-R08A	Polybisbenzimidazo- benzophenanthroline	A05-J02	Polycyclohexyl methacrylate	A04-F06+
		Polyblends	A07-A+	Polydiallyldimethyl ammonium chloride	A04-B
		Polybromobutyl acrylate	A04-E	Polydiene polyol	
		Polybutadiene	A04-B02+	polyurethanes	A05-G
		Polybutadiene diol and isocyanate based polyurethane	A05-G	Polydiolefin in polymeric blends	A07-A+
		Polybutadiene in polymeric blends	A07-A+	Polydodecamethylene dodecane-dioic amide	A05-F02
		Polybutadiene, production	A04-B02A	Polydodecanolactam	A05-F03
		Polybutene-1	A04-G04	Polyelectrolytes	A12-M+ A12-M01 A12-M02
		Polybutene-2	A04-G	acrylic others	
		Polybutenyl succinimide	A10-E03	Polyenanthalactam	A05-F03
		Polybutylene terephthalate (PBT)	A05-E04+ F03-F07+ F01-D04		
		dyeing of			
		fibres, chemical features of			
		Polycaprolactam	A05-F03		
		Polycaprolactone polyol polyurethane	A05-G02		
		Polycapryllactam	A05-F03		
		Polycarbamates	A05-G+		
		Polycarbodiimides	A05-J09		

Polyene		production	A05-E01A1	dyeing of fibres	A12-S05N
dye	E25-B	textiles, textile treatment	A05-E01B+		F03-F07+
polymer coatings	A12-B01C	textiles, textile treatment,		Polyethylene terephthalate	
	G02-A02D1	chemical treatment	A05-E01B2	isophthalate	A05-E03
polythiol polymers	A05-J05	textiles, textile treatment,			A05-E04+
Polyepichlorohydrin	A05-H04	mechanical treatment	A05-E01B1	Polyfluoroacrylates	A04-E10D
Polyepihalohydrins	A05-H04	textiles, textile treatment,		Polyformaldehyde	A05-H02+
Polyepisulphides	A05-J05	uses	A05-E01B3	Polyfunctional stabilisers	A08-A01+
Polyepoxides	A05-A+	Polyesters, unsaturated	A05-D02+	Polygermanates	
cycloaliphatic	A05-A05	application	A05-D02E+	(polymerisation product)	A06-D
Polyesteramides	A05-E07	application, building		Polyglutamic acid	A05-F03
fibres, chemical features of	F01-D03	components, laminates	A05-D02E1	Polyglycerol	A05-H
	F01-D04	compounding	A05-D02B	Polyglycerol polyether	A05-H
Polyesterether	A05-E09	fabrication	A05-D02C		
from poly (tetramethylene		production	A05-D02A	Polyglycidyl compounds -	
ether) glycol, dimethyl		treatment	A05-D02D	see also Epoxy resins	A05-A+
isophthalate and		Polyesterurethanes	A05-G02	Polyglycidyl isocyanurate	A05-A04
ethylene glycol	A05-E03	foams	A12-S02+	Polyhexafluoro- propylene	A04-E10D
	A05-E09	Polyetheresters	A05-E09	Polyhexamethylene adipamide	
	A05-H05	fibres, chemical features			A05-F02
		of	F01-D04	caprolactam	
Polyesterification	A10-D05		F01-D10	cocondensate (nylon 6:6/6)	A05-F02
Polyesterification		Polyetherketones	A05-J10		A05-F03
modification	A10-E07+	Polyetherpolyol and		hexamethylene azelaamide	
Polyesterimides	A05-E07	isocyanate based		cocondensate (nylon	
	A05-J01+	polyurethane	A05-G03	6:6/6:9)	A05-F02
Polyesterpolyol and isocyanate		Polyethers	A05-H+	hexamethylene	
based polyurethanes	A05-G02		B04-C03C	azelaamide- caprolactam	
Polyesters - see also Polyester			C04-C03C	cocondensate (nylon	
saturated, and Polyesters,		based on dihydric phenol	A05-H06	6:6/6:9/6)	A05-F02
unsaturated		based on ethylene oxide	A05-H03+		A05-F03
adhesives/binders	A12-A05E	based on ethylene oxide,		hexamethylene	
	G03-B02E3	composition	A05-H03A	isophthalamide	
coatings/paints	A12-B01H	based on ethylene oxide,		cocondensate (nylon	
	G02-A02E+	production	A05-H03A	6:6/6iP)	A05-F
fibres, chemical features		based on furan	A05-H05		A05-F02
in production	F01-D04	foam	A12-S02D	hexamethylene sebacamide-	
fibres, dyeing	A12-S05N	in polymeric blends	A07-A+	caprolactam cocondensate	
	F03-F07+	polyether polyol based		(nylon 6:6/6:10/6)	A05-F02
fibres, printing	A12-S05Q	polyurethane	A05-G03		A05-F03
	F03-F07+	propylene oxide based		hexamethylene	
non-linear (alkyd resin)	A05-E08	(including epihalohydrins)	A05-H04	terephthalamide	
polyol based polyurethane	A05-G02	Polyethersulphones	A05-J06	cocondensate (nylon 6:6/6T)	
Polyesters, saturated	A05-E+	Polyetherurethanes	A05-G03		A05-F
based on aliphatic acid	A05-E02	foams	A12-S02D		A05-F02
based on aromatic acid		Polyethylene - see also		Polyhexamethylene azelaamide	A05-F02
(excluding iso and		Ethylene, polymer	B04-C03B	Polyhexamethylene	
terephthalic acids)	A05-E05		C04-C03B	dodecanedioic amide	A05-F02
based on Hydroxyacids	A05-E02B	fibres, chemical features of	F01-D05	Polyhexamethylene	
based on isophthalic acid	A05-E03	fibres, dyeing/printing	F03-F08	isophthalamide	A05-F
based on lactones or		homopolymer	A04-G02+	Polyhexamethylene	
glycolides	A05-E02C	Polyethylene glycol	A05-H03	sebacamide	A05-F02
based on saturated		Production	A05-H03A1	Polyhexamethylene	
(cyclo)aliphatic, dicarboxylic		Composition	A05-H03A3	terephthalamide	A05-F
acids and dihydric alcohols	A05-E02A	Polyethylene imine	A05-J07	Polyhexene-1	A04-G
or phenols	A05-E04+	Polyethylene naphthalate	A05-E05A	Polyhexyl acrylate	A04-F06+
based on terephthalic acid		Polyethylene oxide	A05-H03+	Polyhydantoin	A05-J02
based on terephthalic	A05-E04E	Homopolymer Production	A05-H03A1	Polyhydrazides	A05-J09
acid, application		Homopolymer Composition	A05-H03A3	Polyhydric alcohol acrylic esters	A04-F06+
based on terephthalic	A05-E04B	Copolymer Production	A05-H03A2	Polyhydric alcohol condensants	A01-E14
acid, compounding		Copolymer Compostion	A05-H03A4	Polyhydric phenol condensants	A01-E13
based on terephthalic	A05-E04C			Polyhydric phenols-aldehyde	
acid, fabrication		Polyethylene terephthalate -		resins	A05-C02
based on terephthalic	A05-E04A	see also Polyester,			A05-J01+
acid, production		saturated, based on			
based on terephthalic		terephthalic acid	A05-E04+		
acid, treatment	A05-E04D	chemical features of fibres	F01-D04A		
composition	A05-E01A2				

Polyimines	A05-J11	halogen containing		Polymerised	
Polyindene	A04-C	flame retardants	A08-F04A	drying oils	A03-C
Polyisobutene	A04-G05	impregnants and coatings		vegetable oil acids and	
Polyisobutenyl succinimide	A10-E03	for concrete	L02-D14M	polyamine based polyamides	
Polyisobutylene	A04-G05+	impregnants and coatings			A05-F04
Polyisocyanates		for concrete	A12-R01A	Polymerising	
condensants	A01-E02	paper, synthetic	A12-W06+	condensant during coating	A11-B05C
crosslinkers	A08-C09A		F05-A06+	monomer during coating	A11-B05C
	A08-D04A	particulate filler for polymers	A08-R08B	Polymers	A11-C07
		reinforcing agents	A08-R08+	removal from water	D04-B06D
Polyisocyanurates	A05-J02	supports for magnetic			
Polyisomaltose	B04-C02	recording	A12-E08A+	Polymers general (excluding	
	C04-C02		L03-B05L1	polypeptide and	
		Polymerisation	B11-C01	polysaccharide)	A01
Polyisoprene			C11-C01		B04-C03
(co)polymers, butyl rubber	A04-G05A	controllers	A02+		C04-C03
copolymers	A04-B07	controllers, catalysts	A02-A+	addition in paper	
homopolymer	A04-B06	controllers, chain transfer		manufacture	A12-W06+
Polyitaconic acid	A04-F05	agents	A02-B		F05-A06C
Polyketones including		controllers, inhibitors	A02-C	additives for concrete	A12-R01A
polyether-ketones	A05-J10	controllers, modifiers	A02-B		L02-D14F
Polylauryllactam	A05-F03	controllers, regulators	A02-B	additives for polymers	A08+
		equipment	A10-B01	analysis of	A09-B
Polymaleic acid/anhydride			A10-D04	blends/mixtures	A07-A+
(co)polymer	A04-F05	equipment, cleaning	A10-G	bonded to antigen or	
		equipment, scale		antibody	B11-C07A6
Polymaleimide- polyamine		prevention/ reduction	A10-G02		C11-C07A6
polymers	A05-J11	natural polymer production	A10-A	bonded to enzyme	A12-W11L
Polymer coatings on metal		process, addition	A10-B+		D05-A01A2
general	A12-B04+	process, condensation	A10-D+	bonded to non-woven	
preparation of compositions;		process, gasoline		fabrics	A12-B02B
resinous metal treatment	A12-B04B	preparation	H04-D01	carriers for microorganis	D05-A03A
using acrylic resins	A12-B04D	process, ordered	A10-C+	carriers for microorganisms	A12-W11L
using natural, inorganic				detergent additive	D11-B19
or condensation resin	A12-B04C	Polymerisation catalysts	A02-A+	detergent additive, for	
using other addition		Alfin	A02-A05	fibres	A12-W12A
polymer(s)	A12-B04F	alkali(ne earth) metal		detergent additive, for	
using vinyl ester or		containing organic		others	A12-W12B
halogen addition polymer	A12-B04E	compound	A02-A07B	filled with non-metallic	
		azo	A02-A02	conductors	L03-A02E
Polymer coatings on polymer		biocatalyst	A02-A12	film laminates	A12-S06C
(use)		enzyme	A02-A12	in paper	A12-W06+
general	A12-B07+	free radical	A02-A03		F05-A06C
on films (optionally		Friedel-Craft	A02-A04	natural	A03+
laminated)	A12-B07A	inhibitors	A02-C		B04-C03D
	A12-S06C+	metallic (non-transition			C04-C03D
on foams	A12-B07B	metal)	A02-A07+	of metal containing	
on tubes, cables or other		organoaluminium		compound (including	
profiles	A12-B07C	compound (not with		Boron, Phosphorus,	
Polymer use		transition metal/compound)	A02-A07C	Silicon) as crosslinkers	
Adsorption	A12-W11D	organoaluminium			A08-C08
		compound + transition			A08-D05
Polymerase		metal/compound	A02-A06+	pigment/filler treatment with	G01-B03
agonists	B14-L01A2		A02-A06C	removal from water	A11-C07
	C14-L01A2		A02-A07A		D04-B06
inhibitors	B14-D06A	organometallic (non-		sheet laminates	A12-S07A
	C14-D06A	transition metal)	A02-A07+	testing of	A09-C
Polymeric	A08-M03	P containing (excluding		Polymers, proteinaceous	A03-C01
adhesion promoter for		with transition metal/			
polymers	A08-M01B	compound)	A02-A11	Polymetaxylylene adipamide	A05-F02
animal repellent		peroxide	A02-A01		
compounds	A08-M02	persalt	A02-A01	Polymethacrolein	A04-F02
antiseptic compounds	A08-M02	redox	A02-A03		
conductors, electrical	L03-A02D	support	A02-D	Polymethacryloyl chloride	A04-E
cross-linking/curing agents	A08-C08	transition metal (compound)		Polymethacrylamide - see	
	A08-D+		A02-A06+	also Acrylamide, polymer	A04-D04+
dye or precursor	E24-B	transition metal halide or		Polymethacrylic acid	A04-F04+
dyeing aids	A08-M01A	oxyhalide	A02-A06B		
fibrous filler for polymers	A08-R08A	transition metal oxide	A02-A06A	Polymethacrylic anhydride	A04-F04+
fillers	A08-R08+	Ziegler (general)	A02-A06+	Polymethacrylic ester	A04-F06+
fungicidal compounds	A08-M02	Ziegler (halide containing)	A02-A06B	Polymethacrylonitrile	A04-D02+

Polymethyl isopropenyl ketone (co)polymer	A04-F03	Modified/cyclic	B04-C01H C04-C01H B04-N02 C04-N02 B04-N03 C04-N03 B04-N03C B04-N03D C04-N03C C04-N03D B04-N03G B04-N03H C04-N03G C04-N03H B04-N03E B04-N03F C04-N03E C04-N03F B04-N01 C04-N01 B04-N04 C04-N04 A10-A D05-C11 A04-E10D A04-E10D	Polyquinoxaline	A05-J02
Polymethyl methacrylate (PMMA)	A04-F06+	animal		Polysaccharides	A03-A+ B04-C02 C04-C02 D05-C08 D05-A01A1 A03-A01+
Polymethyl vinyl ketone	A04-F03	from microorganisms		bisynthesis	
Polymethylene polyphenylene polyisocyanate condensant	A01-E02	bacterial		bound to enzyme	
Polymyxin	B02-P01 C02-P01			general	
Polynaphthenate polymers	A05-E05A			other non-cellulosics (not specified elsewhere)	A03-A+ A03-A01A
Polynonanolactam	A05-F03	fungus		Polysilazanes	A06-A+
Polynorbornene (rubber)	A04-G			Polysilicon layers on semiconductor circuits	L04-C10B
Polynosic fibres		viral		Polysiloxanes (including polysilazanes)	A06-A+ A06-A00E+
chemical features	F01-D06			applications	
dyeing/printing	F03-F09			applications, adhesives, coatings, textile treatment	A06-A00E1 A06-A00E2
Polynuclear mono- or polyhydric phenols condensants	A01-E13	plant		applications, in engineering	
Polyoctene-1 (co)polymers	A04-G	polypeptide general		applications, medical, dental, cosmetic, veterinary	A06-A00E3
Polyol condensants	A01-E14	production by fermentation		applications, photographic, printing, optical	A06-A00E4 A06-A00B A06-A00C A06-A00A A06-A00D
Polyolefins	A04-G+ B04-C03B C04-C03B	Polyperfluoroalkyl acrylate		compounding	
adhesive/binder (based on)	A12-A05B2 G03-B02D3	Polyperfluoroalkyl methacrylate		fabrication	
fibres dyeing/printing	A12-S05P F03-F08	Polyphenol - see Phenol		production	
fibres, chemical features		Polyphenyl acrylate	A04-F06+	treatment	
in production	F01-D05	Polyphenylene oxide-styrene polymer blends ("Alloys")	A04-C+ A05-H07A A07-A04E	Polysodium acrylate	A04-F04+
foaming processes	A12-S04A1	Polyphenylene oxides/ethers	A05-H07A	Polystyrene	A04-C02+ A04-C02E
foams (compositions)	A12-S04A2	Polyphenylene sulphide	A05-J05A	applications	
in polymeric blends	A07-A+	Polyphosphate, inorganic - see Phosphorus compounds, inorganic		chloromethylated and quaternised using tertiary amine	A10-E03 A10-E19
stabilisers for	A08-A01A1	Polyphosphazene	A06-B	compounding	A04-C02B
Polyoxadiazoles	A05-J02	Polyphthalocyanine	A05-J02	expanded, foams	A12-S01+ A04-C02C
Polyoxazoli(di)nes	A05-J02	Polypropylene	A04-G03+ B04-C03B C04-C03B A04-G03E	foam, composition or process	A12-S01A
Polyoxazolidones		application		production	A04-C02A
from diglycidyl ether of bisphenol A and polyisocyanate	A05-A02 A05-J02	application, for packaging, medical, home, photographic, film	A04-G03E1 A04-G03B A04-G03C	treatment	A04-C02D
Polyoxyethylene copolymers	A05-H03+ Production Composition	fibres		Polysulphides, organic	B10-A04 C10-A04 E10-A04 A05-J05+
Polyoxyethylene homopolymers	A05-H03+ Production Composition	fibres, chemical features of	F01-D05	polymer	
Polyoxymethylene (co)polymers	A05-H02+	fibres, dyeing/printing	F03-F08	Polysulphone	A05-J06
Polyoxypropylene copolymers	A05-H04+ Production Composition	production	A04-G03A	Polysulphonamides	A05-F
Polyoxypropylene homopolymers	A05-H04+ Production Composition	treatment	A04-G03D	Polyterpenes	A03-C
Polyparabanic acid	A05-J02	Polypropylene oxides/glycols	A05-H04+	Polytetrafluoro-ethylene	A04-E08+
Polyparaxylylene	A05-J	Polyppyromellitimides from pyromellitic condensant and diamines	A05-J01+	application to engineering	A04-E08B A04-E08A
Polyparaxylylene dodecanedioic amide	A05-F02	Polyppyrroles	A05-J12	compositions, production	
Polypeptides	A03-C01 B04-C01 C04-C01	Polyppyrrolidone	A05-F03	Polytetrahydrofuran	A05-H05
		Polyquaternary ammonium compounds	B10-A21 C10-A21 E10-A21	Polytetrahydrofuran based polyurethane	A05-G03
		Polyquinazalone	A05-J02	Polythene see also Polyethylene	A04-G02+
				Polythiocarbonates	A05-E06+
				Polythiodiethanol	A05-H
				Polythioethers	A05-J05+
				Polythiol-polyene resins	A05-J05
				Polythiophenes	A05-J12
				Polythiourea	A05-J04
				Polythiourethanes	A05-G

Polytitanates (polymerisation product)	A06-D	Polyvinyl cinnamate	A10-E07B A10-E09+	Potassium halide	B05-A01A C05-A01A E33-B
Polytriazoles	A05-J02	Polyvinyl cyclohexane	A04-G	Potassium hydroxide	E33-A
Polytrimethyl dihydroquinoline	A04-D08	Polyvinyl fluoride	A04-E10A	electrolytic production	E33-A01
Polyundecanolactam	A05-F03	Polyvinyl formal	A10-E02	production	E33-A02
Polyunsaturated compound, monomer	A01-B03 A01-C+	Polyvinyl iodide	A04-E04	use	E33-A03
Polyunsaturated compound, polymer	A04-A03 A04-B+	Polyvinyl isobutyl ether	A04-F11	Potassium iodide	E33-B
Polyurea	A05-J04	Polyvinyl ketal	A10-E02	Potassium nitrate	E33-E
adhesives	A12-A05F G03-B02E4	Polyvinyl pyridines	A04-D07	Potassium oxide	E33-A E33-A04
Polyurethane polyurea	A05-G+ A05-J04	Polyvinyl stearate	A04-F10	Potassium persulphate	E31-E03
Polyurethanes	A05-G+	Polyvinylamine	A10-E09	catalyst for polymerisation	A02-A01
applications	A05-G01E+	Polyvinylene carbonate	A04-F	crosslinker	A08-C05 A08-D
applications, adhesives	A12-A05F G03-B02E4	Polyvinylidene bromide	A04-E06	redox catalyst for polymerisation	A02-A03
applications, artificial leather	A12-B02A F04-B01A	Polyvinylidene chloride	A04-E06	Potassium sulphates	E33-C
applications, coatings	A05-G01E1 A12-B01K G02-A02H A05-G01B	Polyvinylidene fluoride	A04-E10B	Potassium sulphites	B05-A01A C05-A01A E33-C
compounding elastomers	A05-G+	Polyvinylidene iodide	A04-E06	Potassium titanate filler/ reinforcing agent	A08-R09
expanded, foamed	A12-S02+	Polyvinylpyrrolidone	A04-D05A B04-C03A C04-C03A	Potentiometry testing	B11-C08B C11-C08B
fabrication	A05-G01C	iodine complex	A10-E04A	Potted components (electrical, polymer use)	A12-E04
fibres, chemical features in	F01-D07	Polyxylylene	A05-J	Potting compound (electrical)	A12-E04
fibres, dyeing and printing	F03-F10	Pools, swimming	A12-F01A	Poultices	B12-M02C C12-M02C D09-C04A
foams	A12-S02+	Popcorn making	D03-J11	Poultry (whole), processing	D02-A01
in polymeric blends	A07-A+	Porcelain	L02-G03A	Poultry products	D02-A03
monomeric polyol based	A05-G04	Pore formers for polymers	A08-B+	Pour depressant (lubricant additive)	H07-G05
polyester polyol based	A05-G02	Pore forming of polymers	A11-B06+	polymeric	A12-W02A
polyether polyol based	A05-G03	Pork	D02-A03B	Pour point depressants (fuels)	H06-D05
production	A05-G01A	Porous		Powder metallurgy	M22-H
treatment	A05-G01D	forms	A12-S+ E12-A10	compacting	M22-H03A
Polyvinyl acetal	A10-E02	metal by electrolysis	M28-D	compacting and sintering	M22-H03C
Polyvinyl acetate	A04-F08	Porphin dye (general)	E23	composite materials	M22-H03F
Polyvinyl alcohol	A10-E09+	Porphyrin	B06-D18 C06-D18 E06-D18	fibre reinforced material	M22-H03D
fibres, chemical features	F01-D08	Portland		impregnation or post treatment	M22-H03E
fibres, dyeing/printing	F03-F11	cement	L02-C02	powder metal treatment	M22-H02
production by hydrolysis	A10-E09	cement, polymer use in clinker in cement	A12-R01A L02-C03	pressing	M22-H03A
Polyvinyl bromide	A04-E04	Positron emission tomography	B12-K04C3 C12-K04C3	sintering	M22-H03B
Polyvinyl butyral	A10-E02	Post halogenated polymer	A10-E04A	specific products	M22-H03G
Polyvinyl butyrate	A04-F10	Post-forming glass fibres	L01-G L01-F03E	Powder coatings	G02-A07A
Polyvinyl carbazoles	A04-D06	Post-treatment of castings	M22-G03H	Powder paints, of polymer	A12-B+ A12-S09+ G02-A07A
Polyvinyl chloride	A04-E02+	Posters, advertising	A12-W03	Powder treatment, of polymers	A11-A04
applications	A04-E02E+	Posthalogenation	A10-E04A	Powdered filler, reinforcing agents for polymers	A08-R+
applications, adhesives	A12-A05B3 G03-B02D2	Potassium bicarbonate	E33-D	Powdering detergents	D11-D03
applications, artificial leather	A12-B02A F04-B01B	Potassium bromide	E33-B	Powders	E12-A07
applications, coatings	A12-B01F G02-A02D2	Potassium carbonate	E33-D	coating onto substrates	A11-B05E
applications, in engineering, building	A04-E02E1 A04-E02B	Potassium catalysts	N01-A01	dusting	B12-M02E
fabrication	A04-E02C	Potassium chloride	E33-B	formation of polymer	C12-M02E E12-A07 A11-A04
fibres, chemical features	F01-D08	Potassium compounds	B05-A01A C05-A01A E33-S		
fibres, dyeing/printing	F03-F11	inorganic	E05-A		
production	A04-E02A	organic	E05-A02		
treatment	A04-E02D	Potassium fluoride	E33-B		

metal production by electrolysis	M28-D	Prehardening during colour processing	G06-G14	Pressure vessel discharge of gas from filling with gas	J06-B04 J06-B03
metal production by other methods	M22-H01	Preheating furnace charge	J09-B03	for nuclear reactors	K05-B01
of polymers	A12-S09	hot blast	M24-A05E1	gas/liquid storage	J06-B01
oral application	B12-M11G C12-M11G	polymers	A11-A02+	Prestressed concrete	L02-D05
polymeric coating process	A11-B05E	Premenstrual tension treatment	B12-C05 B14-N14 C12-C05 C14-N14	Pretreatment before digesting (in paper-making)	F05-A02A
Powdery mildew	C14-A06N			Pretreatment of surfaces for application of adhesive	G03-B03
Pozzuolanic cements	L02-C03			Prevention of scales on polymerisation vessels	A10-G02
PP	A04-G03+	Preparation of catalysts, general	N06-E	Prills	B12-M11D C12-M11D
PPAR agonist	B14-L01C C14-L01C	Prepolymers of polyurethanes	A05-G+	Primers (explosive)	K04-B01
PPAR antagonist	B14-L06C C14-L06C	Preservation of body parts (chemical)	D09-A01 D09-A03 D03-A05 D03-A03 D03-A02 D03-H02 D03-A01 D09-A03A D09-A03B D03-A04 F05-B01	Primers for coatings	G02-A05E
Praseodymium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	edible seeds	D03-A05	Primers for polymers	A08-M01+
catalysts		eggs and egg products	D03-A03	Printability improver for polymers	A08-M01A
inorganic	E34-E02B	fish and fish products	D03-A02	Printability of polymers	A09-A06
organic	E05-P	foods (general)	D03-H02	Printed circuit boards encapsulation by plastics or glass	A12-E04 A12-E07A L03-H04E8 L03-H04E9
Pre-spinning yarn process	F01-F	meat and sausages	D03-A01	other treatment	
Prebiotics (health food)	D03-H01T2A	organs, animal tissue	D09-A03A	Printed circuits	A12-E07A L03-H04E L03-H04E3
Probiotics (health food)	D03-H01T2A	plant tissue	D09-A03B	electroplating of manufacture, photographically manufacture, reprographically metallising	G06-D06 L03-H04E2 L03-H04E3 L03-H04E7 L03-H04E2 L03-H04E6
Precious metal conductor tracks for semiconductor devices	L04-C10E	vegetables and fruit	D03-A04	microwelding	L03-H04E7
Precious metal catalysts	N02	wood	F05-B01	patterning processes	L03-H04E2
Precipitating with shear to give fibres and fibrils	F01-C07	Preservatives agricultural/pharmaceutical	B12-M06 C12-M06	soldering, brazing	L03-H04E6
Precipitation of polymers, purification by tests	A10-G B11-C07 C11-C07	biological, for fibres/fabrics for polymer	F03-C02B A08-M02	substrate	L03-H04E5
water treatment	D04-A01B	Preserved food product	D03-A	substrate, ceramic	L03-H04E1
Prednisolone	B01-B02 C01-B02	Preserving apparatus	B11-C06 C11-C06 D03-H02	substrate, plastics	
Prednisone	B01-B01 C01-B01	food (general)	D03-H02	Printing after treatment	A12-W07+
Prefabricated concrete compositions	L02-D04 L02-D04A	Press polishing of polymers	A11-C04	apparatus for auxiliaries	F03-F14 F03-F01 F03-F32
methods	L02-D04B	Press section of papermaking machine	F05-A04C	auxiliaries for fibres	F03-F32
products	L02-D04D	Presses (forging, hammer and extrusion)	M21-J02	by photographic methods	A12-L02B1 G06-D05 G05-A02 A12-W07E G02-A04B
Preformed glass rod and sheath for optical fibre manufacture	L01-F03F4	Pressing of ceramic powder, cold	L02-A03	equipment (excluding plates) made of polymers	A12-W07F
Preforming, pelleting of polymers	A11-A04	ceramic powder, hot	L02-A04	fabrics	A12-S05Q
Preforms for optical glass fibre	L01-F03F	while sintering	L01-E04	gravure	G05-A03
1,4-Pregnadiene (excluding prednisone and prednisolone)	B01-B03 C01-B03	glass	M22-H03A	ink	A12-W07D G02-A04A A08-E+ G05-F03
Pregnadiene (two ring "A" double bonds other than 1,4)	B01-B04 C01-B04	metal, powder	M21-J	ink for polymer surfaces	
		metal, sheet, wire, rod, tube profile	M21-J	ink jet	G05-F03
		metal, sheet, wire, rod, tube profile, control devices	M21-J03	ink jet inks	A12-W07D1
		metal, sheet, wire, rod, tube profile, equipment	M21-J02	intaglio	G05-A03
		metal, sheet, wire, rod, tube profile, processes	M21-J01 A11-B13	lithographic	A12-W07B G05-A01
		polymers		others, produced photographically	A12-W07C
		Pressure casting	M22-G03E	paste for polymers	A08-E01
		filters	J01-F02A	pigment for printing ink	G02-A04B
		swing adsorption	J01-E03D	planographic	G05-A01
		Pressure sensitive adhesive polymer	A12-A+ A12-D05A G05-D		
		copying material	A12-D05A		
		office materials	A12-D05A		
		Pressure Swing Adsorption	H02-B05		

plastics	A11-C04A	Prohormone	B04-J99	Propylene urea condensant	A01-E03
plates	A12-W07+ G05-A+		C04-J99	Propylene urea-formaldehyde resin	A05-B04
polymeric, non-photographic	A12-W07A	Projectiles	K03-A02	Propylene- vinylchloride copolymer	A04-E03+ A04-G09
polymeric, photographic composition for making plates	A12-L02B1	lethal	K03-A02A		
production of plates by electrophotographic methods	A12-L02B1 G06-D05A	non-lethal	K03-A02B	Propylene-ethylene copolymer	A04-G06+
silicone resins used in stencil for substrates	A06-A00E4 G05-A04	Prolactin	B04-J05 C04-J05	Propylene-ethylene- diene copolymer	A04-G06+
thermal (heads)	A12-W7F2 G05-F02 L03-G10B	Promethium compounds	B05-A04 C05-A04	Prostacyclin	B04-H03D C04-H03D
transfer sheets	A12-W07F1 G05-F01	catalysts	N03-A02B	Prostaglandins	B04-B02E B04-H03 C04-B02E C04-H03
Printing plastics		inorganic	E34-E02B	agonist/mimetic	B14-L04 C14-L04
Painting plastics	A11-C04A	organic	E05-R	antagonist/inhibitor	B14-L08 C14-L08
Printout materials for photo-sensitive system	G06-C06	Promoters for addition (co)polymers	A08-C02	prostaglandin E1	B04-H03A C04-H03A
Prions	B04-N10 C04-N10	blowing agents	A08-B	prostaglandin E2	B04-H03B C04-H03B
Prion disease treatment	B14-N16 C14-N16	crosslinking agents for other (co)polymers	A08-D+ D08-B03A	prostaglandin F2 alpha	B04-H03C C04-H03C
Prion detection, testing and identification	D05-H06B	hair growth	G05-C	prostaglandin I2	B04-H03D C04-H03D
Probes (DNA) used in tests (process)	B11-C08E5 C11-C08E5	Proofing, colour		Prostate disease treatment	B12-G03 B12-G04 B14-N07A C12-G03 C12-G04 C14-N07A
Probes (electrical-polymer use)	A12-E13	1,3-Propane dicarboxylic condensant	A01-E12	Prostheses	A12-V02+ D09-C01 F04-E04 B12-M16 C12-M16
Process, general	B11 C11 E11	Propane diol condensant	A01-E14		
catalytic	N06	Propane-1,2,3-triol condensant	A01-E14	Protactinium compounds	B05-A04 C05-A04
Processing agent or step (photographic)	G06-G+	Propargyl alcohol (co)polymers	A04-A02 A01-B02	inorganic	E35-Y
Processing aid for fabrics	F03-C05	monomer	A12-T03C K04-C	organic	E05-Q
polymers	A08-M03+	Propene (see also Propylene) monomer	E10-J02C A01-D13	Proteases	B04-L05C C04-L05C
Processing of polymers forming processes	A11-B+	Properties of polymers	A09-A+	agonists	B14-L01A3 C14-L01A3
miscellaneous processes	A11-C+	absorption/adsorption	A09-A08	inhibitors	B14-D07C C14-D07C
preliminary processes	A11-A+	biodegradeable	A09-A07	Protective chemicals (agriculture)	A12-W04C
Prodegradant for polymers	A08-M08	dyeability	A09-A06	Protective clothing	A12-C02 D09-C04D F04-C06 K07-A
Prodrugs	B14-S28 C14-S28	electrical	A09-A03	against radiation	
Proenzyme	B04-L01 C04-L01	electroluminescent	A09-A03A	Protective coatings photographic polymer use	G06-A08 A12-B+
Progestagen inhibitor	B12-G01A B14-D02A C12-G01A C14-D02A	flammability	A09-A01	Protective colloid (additive to polymer system)	A08-S06
Progestational	B12-G04D B14-D01C C12-G04D C14-D01C	heat stability	A09-A01A	Protective layers in magnetic recording photography	L03-B05K1 G06-A08
Progesterone (excluding 17-hydroxy)	B01-C04 C01-C04	impact strength	A09-A05A		
Programs for sewing machines	F02-F01B1	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		
		(co)polymers with other monomers	A04-G09		
		homopolymer	A04-G03		
		monomer	A01-D13		
		Propylene glycol condensant	A01-E13		
		Propylene oxide	E07-A03A		
		(co)polymers	A05-H04		
		condensant	A01-E07		
		Propylene oxide - TDI polyurethanes	A05-G03		
		Propylene oxide-ethylene oxide copolymer based polyurethane	A05-G03		

Protein	B04-B04A B04-N04 C04-B04A C04-N04 D03-F B11-C08F C11-C08F J04-B03	Psychotropic	B12-C05 B14-J01 C12-C05 C14-J01	Putty	A12-R08 G04-B02
analysis		Pteridine	B06-D09 C06-D09 E06-D09	PVA fibres, chemical features fibres, dyeing/printing	A10-E09+ F01-D08 F03-F11
animal	B04-N02 C04-N02	Pteridophytes	B04-A08B C04-A08B	PVAC	A04-F08
biosynthesis	D05-C12 D05-C13	PTFE	A04-E08+	PVC fibres, chemical features fibres, dyeing/printing	A04-E02+ F01-D08 F03-F11
composition	D03-F06	PU	A05-G+	PVC/ABS blend ("Alloy")	A04-C03 A04-E02B A07-A02A1
from animal or fish waste	B04-B04A5 C04-B04A5 D03-F04 B04-N03 C04-N03 D03-F03	Pullulan	A03-A+ B04-C02F C04-C02F D06-H	PVDC	A04-E06
from microorganisms		Pulmonary	B12-K06 B14-K01 C12-K06 C14-K01	PVDF	A04-E10B
from petroleum source - see also Biosynthesis	H08-E03 D03-F02	Pulp after-treatment in papermaking	F05-A02B	PVP	A04-E10A A04-D05A
from soya beans	B10-B02C C10-B02C E10-B02C	Pulp liquor regeneration, in papermaking	F05-A02C	Pyran (excluding tetrahydropyran)	B07-A03 C07-A03 E07-A03C
hydrolysate	B11-C10C C11-C10C	Pulping fruit	D03-J06	Pyrazine (excluding piperazine)	B07-D10 C07-D10 E07-D10
libraries	B04-N01 C04-N01	Pulping, in papermaking	F05-A02A	Pyrazino(1,2-b)- pyridazine	B06-D08 C06-D08 E06-D08
plant	B04-B04A6 B04-N04 C04-B04A6 C04-N04 D03-F01	Pulsed release	B12-M10D C12-M10D	Pyrazino(2,3-d)- pyrimidine	B06-D09 C06-D09 E06-D09
removal from waste water	D04-B04 B11-C08F7B C11-C08F7B	Pultrusion process for FRP production (excluding A11-B09A+)	A11-B09C	Pyrazino-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09
sequencing method	D03-F05 B04-N11 C04-N11 D05-H17A7 D05-H17B7	Pulverisation of polymers	A11-A04	Pyrazino-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
shaping (thread or film)		Pulverising process	J02-B	Pyrazole	B07-D08 C07-D08 E07-D08
zinc finger protein		Pumps for production of oil	H01-D03	Pyrazolo(1,2-a)- pyridazine	B06-D05 C06-D05 E06-D05
Proteinaceous		Pumps, polymer use in	A12-H	Pyrazolo(2,3-a)- pyrazine	B06-D08 C06-D08 E06-D08
artificial fibres, chemical features	F01-D10 A03-C01	Punch cards for knitting systems weaving system	F02-B01 F02-A02	Pyrazolo(2,3-a)- pyridine	B06-D05 C06-D05 E06-D05
polymers		Punching fabric (non woven) polymers sheet metal	F02-C02D A11-A05A M21-E02	Pyrazolo(2,3-b)- pyridazine	B06-D08 C06-D08 E06-D08
Proteomics	B11-C08F+ C11-C08F+	Purgative	B12-J07 B14-E09 C12-J07 C14-E09	Pyrazolo(3,4-b)- pyrazine	B06-D09 C06-D09 E06-D09
Prothrombin	B04-B04D3 B04-H19 C04-B04D3 C04-H19	Purging of polymer systems	A10-G+ A11-A+	Pyrazolo-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09
Proton pump inhibitors	B14-L12 C14-L12	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	Pyrazolo-pyridine (three N-atoms)	B06-D08 C06-D08 E06-D08
Protozoa	B04-F06 C04-F06	by chemical means by physical means catalytic			
Protsta		of drying oil of gas of natural resin of polymer of water by electrodialysis			
prostaglandin	C04-K01H	Purine	B06-D09 C06-D09 E06-D09		
PS	A04-C02	Purses, polymer use	A12-T		
Pseudomonas	B04-F10A6 C04-F10A6				
Psoriasis treatment	B12-A07 B14-N17C C12-A07 C14-N17C				
Psychosthenic	C12-C05				

Pyrazolo-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Pyrazolo-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pyrazolone photographic coupler	G06-H08B
Pyrazolotriazole based photographic couplers	G06-H08D
Pyrethrin	B04-A07C C04-A07C
Pyridazine	B07-D10 C07-D10 E07-D10
Pyridine (excluding piperidine)	B07-D04 C07-D04 E07-D04
Pyridines, vinyl (co)polymers monomer	A04-D07 A01-D01
Pyridinium	B07-D04A C07-D04A E07-D04A
Pyrido-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pyrido-pyrimidine (two N-atoms)	B06-D06 C06-D06 E06-D06
Pyridoxine	B03-D C03-D
Pyrimidine	B07-D12 C07-D12 E07-D12
Pyrimido-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Pyrimido-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pyroelectric materials	L03-G09C
Pyroligneous acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Pyrolysed polymer	A10-E05+
Pyrolysis (of) polymer waste	A10-E05+ A10-E05A A11-C07
sludge (water treatment)	D04-B10B
Pyromellitic acid condensant	A01-E11
Pyrophoric composition	K04-B02
Pyroxylin	A03-A03 B04-C02A C04-C02A

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 compounds	N05-D
Quaternary ammonium compounds	
disinfectants	D09-A01B
heterocyclic detergents	D11-A02A B10-A22 C10-A22 E10-A22
monoquaternary	
non-heterocyclic detergents	D11-A02B
polyquaternary	B10-A21 C10-A21 E10-A21
Quenching	
baths for ferrous metals following extrusion of polymers	M24-D04E A11-B07D
petroleum refining spun fibres	H05-M 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 E10-A06B
derivatives	
Quinoxaline	B06-D06 C06-D06 E06-D06
Quinuclidine	B06-D04 C06-D04 E06-D04

R

		tracer test	B11-C07B5 C11-C07B5 H01-A02B	organic	E05-P
		well logging		Rare earth oxides production	L02-G01C L02-G12D
Racemase	B04-L07 C04-L07	Radioactive compounds - see also specific element	B05-A04+ C05-A04+ E05-Q E05-R	Rare gas	B05-B02C C05-B02C E31-J
Racemates separation by	J01-X02	organic		compounds, inorganic compounds, organic	E31-J E05-K
Racemisation process	B11-C01 C11-C01 E11-J02	Radioactive element (non-metal)	B05-A04+ C05-A04+ E05-R E31	Rare gas catalysts	N04-A
Racquets	A12-F01B			Rauwolfia alkaloid	B04-A05 C04-A05
Radiation		Radioactive fall-out shelters	K07-A02B	Raw material, mechanical treatment in papermaking	F05-A01
measurement	K08-A	Radioactive waste treatment	K07-B	Rayon	A03-A05+
photographic exposure to	G06-G18	concentration	K07-B01	chemical features	F01-D06
protection against	K07-A	encapsulation	K07-B01	dyeing/printing of	F03-F09
sensitive resists	A12-L02+	encapsulation, in glass	L01-F	Razor blades	A12-V04
Radiation sensitive system (element in system)	G06-F+	gas treatment	K07-B02	Reaction apparatus	
diazo element	G06-F02	long-term storage	K07-B01A	Cyclization reaction	E11-A01
heat sensitive	G06-F08	polymer use in solidification	A12-W11C K07-B01	Decyclization (ring opening) reaction	E11-A02
inorganic photoconductor, other than selenium or zinc oxide	G06-F07	Radiochemistry	K09-E	Ring opening (decyclization) reaction	E11-A02
inorganic photoconductor, selenium (alloy) or zinc oxide		Radioprotectant	B14-M02B C14-M02B	Reaction injection moulding	A11-B12+
	G06-F07A	Radios	A12-E12	Reactions (analytical)	J04-B01B
light-sensitive dye	G06-F05	Radiotherapy	B14-S26 C14-S26	Reactions, in chemical modification of polymers	A10-E+
non-silver metal or compound	G06-F04	Radium catalysts	N03-A03	Reactive diluents for polymers	A08-P+
organic photoconductor (including electro- photographic)	A12-L02+ G06-F06 G06-F03+	Radium compounds	B05-A04 C05-A04 E34-E03 E05-Q	Reactive dyes see also under type or dye in (E02) i.e. Azo, Anthraquinone, Phthalocyanine for dyeing/printing fibre	E25-G F03-F19
photosensitive polymer		inorganic			
photosensitive polymer, containing additives e.g. photosensitisers	G06-F03D	organic		Reactor, nuclear	K05-A K05-B
photosensitive polymer, containing monomer	G06-F03B	Radomes	A12-E	accessory	K05-B07E
photosensitive polymer, polymer containing		Radon (element)	B05-A04 C05-A04 E31-J	cables	K05-B04A
composition	G06-F03C	Radon compounds	B05-A04 C05-A04 E31-J E05-Q	chemical production of fuel component	K05-B
photosensitive polymer, polymeric photoconductors	A12-L05B G06-F03A	inorganic		control	K05-B06
	G06-F01+	organic		coolant	K05-B03
silver halide		Rain proofing of fabric		coolant flow control	K05-B06B
silver halide core-shell emulsion	G06-F01B	non-resinous	A12-S05R F03-C02A	defective fuel location	K05-B06C
silver halide tabular grains emulsion	G06-F01A	resinous	A12-G03 F03-C02A	fast fission	K05-A01
silver salt (other than halide)	G06-F	Rainwater goods	A12-R02	fuel	K05-B04
		Raising fabrics	F03-A	fuel element construction	K05-B04B
Radio frequency welding of polymers	A11-C01+	Raney catalyst	N06-C01 A02-A06	fuel rod handling	K05-B07A
Radioactive		Rapid release	B12-M10C C12-M10C	fusion	K05-A03
decontamination	K07-A03	Rapier weaving/loom	F02-A04B	inspection apparatus	K05-B07J
decontamination of water	D04-B07	Rare earth catalysts	N03-A	liquid metal coolants	K05-B03A
metal elimination from body	B12-J05 B14-M01 C12-J05 C14-M01	Rare earth metal		maintenance	K05-B07D
		alloys - for magnetic purposes	L03-B02A5 L01-A02	measurements, other	K05-B06D
tracer bound to antigen or antibody	B11-C07A3 C11-C07A3	in glass composition production	M25-G21	moderator	K05-B05
		Rare earth metal compounds	B05-A03B C05-A03B E34-E	moderator, deuterium, heavy water	K05-B05A
		inorganic		neutron flux control	K05-B06A
		inorganic compound		other components	K05-B07G
		pigments	G01-A15	pipes	K05-B07E
				pressure vessel	K05-B01
				process	K05-A
				pumps	K05-B07F
				servicing	K05-B07D
				shielding	K05-B02
				shut down	K05-B06A1
				thermal	K05-A02
				thermal, gas-cooled	K05-A02A
				thermal, liquid metal-cooled	K05-A02C

thermal, water-cooled waste removal	K05-A02B K05-B07C	thyroid	B04-K01X2 C04-K01X2	Red sensitive (electro)photographic layer	G06-C14A
Reagent, analytical	J04-B01B	viral/viral antigen	B04-K01U C04-K01U	Redox catalysts for polymerisation	A02-A03
Receivers and housings, telephones	A12-E12	Reclaiming mould material polymers	M22-B02 A11-C03+	Reduced polymer	A10-E13
Receiving agent (photographic)	G06-A04	Recombinant cells	D05-H14	Reducers, permeability (polymer use in mining, oilwells)	A12-W10C
Receptors		Antibody-producing cells	D05-H15	Reductase agonists	B14-L01A1 C14-L01A1
adrenergic (alpha and/or beta)	B04-K01B C04-K01B	bacteria	D05-H14A1	Reductase inhibitors	B14-D05D C14-D05D
androgen	B04-K01L1E C04-K01L1E	fungi	D05-H14A2	Reductases	B04-L03D C04-L03D
angiotensin	B04-K01N C04-K01N	insect cells	D05-H14B1	Reduction process	B11-C01 C11-C01 E11-D
antibody	B04-K01W C04-K01W	Mammalian cells	D05-H14B2	for polymers	A10-E13
bacterial/bacterial antigen	B04-K01T C04-K01T	Microbial (specified) other than D05-H14A1 and -H14A2	D05-H14A3 D05-H14A	Reed switches	L03-B04A
blood cell/blood cell antigen	B04-K01R C04-K01R	microbial (unspecified) plant cells	D05-H14B3	Reeling yarns	F01-H03+
cancer cell/cancer cell antigen	B04-K01S C04-K01S	Recombinant cell lines (specified) other than D05-H14B1, -H14B2 and -H14B3	D05-H14B	Refinery products by cracking	A01-B04
cholinergic	B04-K01A	Recombinant protein production	D05-H17	Refining non-ferrous metals, carbonyl reduction	M25-D
corticosteroid	B04-K01L3 C04-K01L3	fusion protein	D05-H17C	Reflectors	L03-G02G
dopamine	B04-K01C C04-K01C	mutant protein	D05-H17B	Reflowing of electrodeposited metal	M11-B03
Estrogen	B04-K01L2 C04-K01L2	wild-type protein	D05-H17A	Reforming catalysts	H04-F02C
general and other	B04-K01 C04-K01	Reconstituted tobacco	D07-D	Reforming process	B11-C C11-C E11-H H04-C
growth factor	B04-K01J C04-K01J	Recording devices, magnetic direct electron magnetic tape	A12-E08A+ G06-D03 A12-E08A1	Refractive index of polymers	A09-A02
histamine (H1, H2)	B04-K01F C04-K01F	Records, gramophone	A12-W01	Refractories	
insulin	B04-K01M C04-K01M	Recovery of biological substances and materials	B11-B C11-B D05-H13	acidic	L02-E03
interleukin	B04-K01G C04-K01G	catalysts	N06-E	amphoteric	L02-E09
leukotriene	B04-K01H C04-K01H	nuclear fuel	K06-C	basic	L02-E04
lipoprotein (HDL, LDL)	B04-K01H C04-K01H	polymer scrap	A11-C03+	carbon or carbon-containing	L02-E07
melanin concentrating hormone	B04-K01Y1 C04-K01Y1	solvent vapour from gases	J01-E01	cast	L02-E08
non-steroidal nuclear hormone	B04-K01X C04-K01X	waste textile materials	F03-E	castable	L02-E05
other cell/microbe/antigen	B04-K01V C04-K01V	Recovery process, general	B11-B C11-B E11-Q	casting	L02-A05
other hormone receptor	B04-K01P C04-K01P	Recrystallisation of polymers during purification	A10-G01+	core material	L02-E06
other modifier of cell function and growth	B04-K01K C04-K01K	Rectification of polymers	A10-G01+	decorating	L02-A07
other steroid	B04-K01L4 C04-K01L4	Rectifiers	L04-E02	diatomaceous	L02-E02
parasympathetic	B04-K01A C04-K01A	diodes	L04-E02	drying	L02-A03
peroxisome proliferator activated	B04-K01X1 C04-K01X1	Recycling of ceramics	L02-A13	fireclay	L02-E02
sympathetic	B04-K01B C04-K01B	Recycling of fabric products	F03-E02	firing	L02-A04
thromboxane	B04-K01H C04-K01H	Recycling of electr(on)ic materials	L03-J01	flame (plasma) spraying	L02-A06
		Recycling of glass	L01-B02	for glass furnaces	L01-C
		Recycling of polymers	A11-C03+	glazing	L02-A07
		Recycling of semiconductors	L04-X06	gunnable	L02-E05
		Recycling of waste	J09-C01A	melting	L02-A05
		Recycling of waste water (apparatus)	D04-A06	mouldable	L02-E05
		Red phosphorus flame retardant	A08-F03	neutral	L02-E09
				polymer use in preparation of materials production (methods and equipment)	A12-W12G L02-B
				raw material preparation equipment	L02-A
				shaping	L02-A02
				testing	L02-A03
				Refractories, ceramics, cements general	L02-A08

Refractory		Releasing photographically		Residuum (petroleum)	H08-C
cement or concrete	L02-E05	active components on		Resin concrete	A12-R01A
coating of metal	M13-H04	processing excluding dyes	G06-C15		L02-D07B
composition, polymer use		Removal of		Resin system development,	
(excluding core moulds)	A12-W12G	catalyst from polymer	A10-G01A	photographic	G06-G17
metal alloy	M26-B13	chemicals	E11-R	Resins (general)	B04-C03
Refrigerants	G04-B01+	Halohydrocarbons	D04-B06E		C04-C03
halogen containing	G04-B01A	impurities from water	D04-B	addition in paper	
containing fluorine as the only halogen	G04-B01A1	monomer from polymer	A10-G01A	manufacture	A12-W06+
containing both fluorine and chlorine	G04-B01A2	non-cellulosics in paper-			F05-A06C
fluoroether refrigerants	G04-B01A3	making	F05-A02+	addition type, general	A04-H00H
hydrocarbon refrigerants	G04-B01B	of inorganic contaminants	J01-X01B	condensation type, general	A05-K00K
CO ₂ as a refrigerant	G04-B01C	of organic contaminants	J01-X01C	encapsulation of	
other specific chemicals as refrigerants	G04-B01E	scale on polymerisation		semiconductors	A12-E04
refrigerant compositions or blends		vessels	A10-G02		A12-E07C
refrigerants		workpiece from sewing		natural	L04-C20A
		machine	F02-F01B2		A03-C02
	G04-B01F	Removers, chemical, for ink			B04-C03D
Refrigeration	J07-A	and paint	G02-A03C		C04-C03D
	J07-C	Renewable energy devices	A12-W16		G02-B01
lubricants	J07-A09	Renin inhibitor	B12-F05A	petroleum	A03-C04
	H08-D11		B12-G01	reinforced with specifically	
media	J07-A08		C12-F05A	designed fabric	F03-D04
of foodstuffs	D03-H02	general or unspecified	C12-G01	Resist coating apparatus for	
Refrigerators	A12-D04		B14-D07C	semiconductor manufacture	G06-D06
Regenerated cellulose	A03-A05+	used as hypotensive	C14-D07C		G06-E04
	B04-C02A1		B14-F02B1		L04-D08
	C04-C02A1	Repair of polymer articles	C14-F02B1	Resist dyeing/printing of	
			A11-C	fibres or fabrics	F03-F28
Regenerated cellulose fibres		Repellence agent for polymer	A08-S08	Resist materials in	
chemical feature in		Repellents		semiconductor processing	G06-D06
production	A03-A05A	additive for polymers			L04-C05
	F01-D06	against animals,		Resistance	
dyeing/printing	F03-F09	insects, etc.	A08-M02	methods	M23-D02A
solvent dyeing	F03-F13A	additive for polymers		Resistance welding	
Regeneration of pulp liquors		against oils or water	A08-S08	apparatus	M23-D02
in papermaking	F05-A02C			butt	M23-D02B2
Regulation sequences	D05-H12D5	against animals	B14-B13	circuits	M23-D02A1
transcription	D05-H12D5		C14-B13	other	M23-D02B1
translation	D05-H12D5	against animals other		seam	M23-D02A4
Regulation, heat treatment		than insects	B14-B13	specially adapted for	M23-D02A2
(ferrous)	M24-D07	against insects	C14-B13	particular work	M23-D02A5
Regulators for polymerisation	A02-B		B12-L06	spot	M23-D02A3
Reheating furnaces for metal	M21-N04		B14-B05	Resistive oxide compositions	
Reinforced			C12-L06	including ceramic oxide	L02-G07D
concrete	L02-D05		C14-B05	Resistivity of polymers	A09-A03
plastics	A12-S08+	against mammals	D09-E02	Resistors (electrical)	A12-E07C
plastics, glass fibre	A12-S08B	including rodents	B12-N06		L03-B
plastics, hoses, tubes, pipes			C12-N06	fixed	L03-B01B
	A12-H02B	for fabrics	F03-C02+	gas sensitive	L03-B01A4
plastics, laminates	A12-S08A	Reperfusion treatment	B14-F05	moisture sensitive	L03-B01A3
plastics, lay up of	A11-B09+		C14-F05	semiconductor	L04-C12G
plastics, panels, sheets	A12-S08A	Reporter gene	B04-E12	thick film	L03-B01C
plastics, phenol-			C04-E12	variable	L03-B01A
formaldehyde resin in	A05-C03A	Repressuring (oil production)	H01-D07	Resists	A12-L02+
plastics, phenolic resin in	A05-C01B1	Reprographic method for		photo (excluding printing	
plastics, thermoplastics	A12-S08E	printed circuit production	A12-E07A	plates etc.)	G06-D04
plastics, uses	A12-S08D+		A12-L02B2	photosensitive printing	G05-B
Reinforcing agents for polymers			G06-D06	semiconductor processing	G06-D06
	A08-R+		L03-H04E2		L04-C06B
Relaxing of fibres	F01-H05	Reserpine	B04-A05	Resols	A05-C+
Relays	L03-B04		C04-A05	Resolution processes	B11-B
contact breakers	L03-B04B	Reservoir device	B12-M10A2		C11-B
Release coating compositions	G02-A05D		C12-M10A2		E11-L
Release layer, photographic	G06-A05	Residues in pulping, uses	F05-A02C		

Resorcinol	E10-E02A E10-E02D5 A01-E13 A05-C02	Rhizogenes	B12-P08 C12-P08 C14-U01D	Micro RNA	B04-E07D C04-E07D D05-H12D8B
condensant		Rhodium		Short interfering RNA	B04-E07C C04-E07C D05-H12D8A
phenoplast derived from	A05-C02	alloys	M26-B01	Road	
Resorcinol-formaldehyde resin	A05-C02	electrodeposition	M11-A05	paints	A12-R G02-A05F
Respirators, polymer use	A12-V03B	production	M25-G20	signs	A12-R
Respiratory active	B12-K06 B14-K01 C12-K06 C14-K01	Rhodium catalysts for polymerisation	N02-E A02-A06+	surfacing compositions	A12-R09 L02-D09
Restenosis treatment	B14-F01G C14-F01G	Rhodium compounds	B05-A03B C05-A03B E35-X E05-M E05-M02B	Roasting coffee	D03-D01D
Restrainers for photographic development	G06-H13	inorganic organic		Roasting, briquetting and sintering	
Retardant for adsorption properties of fabric		Ribbed tube production	M21-C	ferrous ore	M24-A01A
Retardant for adsorption properties of fabric	F03-C02+	Ribbons	A12-S06+ F02-E02 A12-P07 A12-D05A F02-E02	non-ferrous ore	M25-A02
Retarders for concrete set	L02-D14A	(polymer form) typewriter		Roasting food	D03-K01
Retarders for crosslinking of addition (co)polymers of other polymers	A08-C06 A08-D+	Riboflavin	B03-C C03-C	Robotics, polymer processing by	A09-D
Retarding water penetration in concrete	L02-D14Q	Ribozyme	B04-E07A C04-E07A D05-H12D4	Rocket fuel	A12-T03C K04-C01
Retinol	B03-A C03-A	Rice	D03-L	Rockets (polymer use)	A12-T03
Retreading of tyres	A12-T01D	Crackers	D01-B02C	Rod formation (glass)	L01-F02
Retrovirus	B04-F11B1 C04-F11B1	products	D03-L	Rodent repellent	B12-N06 B14-B13 C12-N06 C14-B13
Retting to obtain vegetable fibres	F01-B02	Rice blast treatment	B12-A02 C12-A02	Rodenticide	B12-N05 B14-B09 C12-N05 C14-B09
Reuse of		Rickettsia	B04-B02B1 B04-F10A7 C04-B02B1 C04-F10A7	Rods, fishing	A12-F01
Marine production platform components	H01-B01E	Rifamycin	B02-R C02-R	Rods, welding	M23-F
old tyres	A12-T01D	Rigid-pack	A12-P06B	Roll bonding metals	M13-H01 M23-E01
polymers	A11-C03	RIM	A11-B12+	Rollers (polymer use)	A12-H11
Reversal processing	G06-G16	Ring expansion/contraction process	B11-C C11-C E11-B01	Rollers for rolling mills, manufacture of	M21-A02A
Reverse osmosis	A12-W11A J01-C03A	Ring formed during modification of polymers	A10-E14	Rollers, mixing of polymers on	A11-A03+
water treatment, apparatus	D04-A01E	Ring opening		Rolling	
water treatment, membrane	A12-W11A	decyclization apparatus	E11-A02	glass	L01-D02
water treatment, waste	D04-A01D D04-B10	decyclization process	E11-A02	lubricants	H08-D07 M21-A06
Reverse transcriptase	B04-L04B C04-L04B	polycondensation	A10-D03	metal stock	M21-A
agonists	B14-L01A2 C14-L01A2	Ring spinning	F01-G01	webs of fabric	F03-K01
inhibitors	B14-D06B C14-D06B	Ring-closure polycondensation	A10-D03	Rolling mills	M21-A
Rhenium catalysts	N02-E02 N03-E	Ringless spinning	F01-G02	coilers	M21-A05
for polymerisation	A02-A06+	Rings, 'O' or piston (polymer use)	A12-H08	components	M21-A02
Rhenium compounds	B05-A03B C05-A03B	Risers; drilling	H01-B03C6	control mechanisms and processes	M21-A07
inorganic	E35-T	Riveting of		cooling beds	M21-A05
organic	E05-N E05-N03A	metal sheets, wires, rods, tubes or profiles	M21-J	feeding devices	M21-A04
Rheumatoid-arthritis treatment	B12-D03 B14-C09B C12-D03 C14-C09B	polymer material	A11-C01+	sheet mills	M21-A03B
		Rivets (polymer use)	A12-H12	stands	M21-A02
		RNA general	B04-E01 C04-E01	strip, bar and wire mills	M21-A03A
		RNA interference	B14-S03C C14-S03C	take-off devices	M21-A05
				tube and pipe mills	M21-A03
				Rolls - see Rollers	
				Roof	
				artificial	L02-D09
				felt	F04-B02
				lighting	A12-R04
				Roofing (polymer use)	A12-R05

Rooting compound	C12-P08
Rooting compounds	B12-P08 C14-U01D
Roots	B04-A09D C04-A09D
extracts	B04-A10F C04-A10F
Ropes	A12-P07 F04-A
Rosin	A03-C02 B04-C03 C04-C03
maleinised	A10-E03 A10-E23
Rot-proofing of fabrics	
non-resinous	A12-S05R F03-C02B
resinous	A12-G F03-C02B
Rotary	
drying	J08-G05
furnace	J09-A03 L02-A02
mixer	J02-A02B
Rotary drilling	H01-B03
derricks	H01-B03A1
drill bits	H01-B03C1
drill collars	H01-B03C2
drill pipe	H01-B03C3
hoists	H01-B03A3
kelly	H01-B03C4
mud processing	H01-B03A2
rig floor equipment	H01-B03A
rotating equipment	H01-B03A3
valves/control equipment	H01-B03B3
drilling riser	H01-B03C6
Rotational moulding of	
polymers	A11-B04A
Rotenone	B04-A07B C04-A07B
Rouges, abrasive	L02-F02
Rubber (natural)	A03-B B04-C03D C04-C03D
Rubber bands	A12-P07
Rubber latexes	A07-B01
Rubber vulcanisation	A11-C02A
Rubefacient	B12-L02 B14-R01 C12-L02 C14-R01
Rubidium catalysts	N01-A
Rubidium compounds	B05-A01B C05-A01B
inorganic	E33-H
organic	E05-A E05-A02
Rugs	A12-D02 F04-D04
Runways	
compositions	A12-R09
signs	A12-R
Rupturable container for	
photographic reagent	G06-E03

Rust preventing paints	A12-B04+ G02-A05E
Rusts treatment	C14-A06R
Ruthenium	
alloys	M26-B01
production	M25-G20
Ruthenium catalysts	N02-E N02-E01
for polymerisation	A02-A06+
Ruthenium compounds	B05-A03B C05-A03B
inorganic	E35-X
organic	E05-M E05-M02A
Rutile	A08-E02 E35-K
pigment filler	G01-A08

S

Saccharomyces	B04-F09C C04-F09C
Sachets	A12-P06C
Sacks	A12-P02
Safety	
airbags	F04-E03A
belts, fabric	F04-E03B
belts, transport	A12-T04E
clothing	A12-C02 F04-C06 M21-N03
devices for metal working	
devices for polymer	
processing	A09-D+
devices, transport	A12-T04E
gloves	A12-C02A
helmets	A12-C02B
Sail boards	A12-F01
Salicylate therapy	
dalicylate therapy	C12-D09
Saliva pumps	D08-A04
Salmonella	B04-F10A8 C04-F10A8
Salt (common)-(NaCl)	B05-A01B C05-A01B E33-B
Salt baths, heat treatment	
of iron and steel	M24-D02C
Salt, metal, formation	
during chemical	
modification of polymers	A10-E21+ A10-E22+
Samarium compounds	B05-A03B C05-A03B
catalysts	N03-A01
inorganic	E34-E02B
organic	E05-P
Sampling	J04-C01
devices for testing	B11-C08C C11-C08C
SAN	A04-C04B A04-D03
Sand casting (see also	
foundry moulding)	M22-A
Sand filler for polymers	A08-R06A
Sandpaper	A12-A03 G04-B04
Sanitary	
napkins, towels	A12-V03A D09-C02 F04-E04
other products	D09-C02B
ware	A12-R02
Sap (plant) produced by	
pressing	B04-A07D4 B04-A09H C04-A07D4 C04-A09H

Saponified ethylene-vinyl acetate	A10-E09+	Scrapie treatment	B14-N16D C14-N16D	Sebacic acid	E10-C02D E10-C02D2 A01-E12
Saponified/ saponification of polymers	A10-E09+	Scratch resistant coating/ layer, photographic	G06-A08	condensant	
Saponin (structure unknown)	B04-A07E C04-A07E	Screening electromagnetic high content	A12-E01A B11-C10B C11-C10B	Seborrhea treatment	B12-L05 B14-R02 C12-L05 C14-R02
Sarkomycin	B02-S C02-S			Secondary growth inhibitor (plants)	C12-P09
Sauce	D03-H01H	Screening, photographic dyes techniques	G06-A02 G06-E01	Secondary growth inhibitors (plants)	B12-P09 C14-U01E
Sausages	D02-A03C D02-A03D	Screens (coarse filters) for paper-making pulp solids well equipment	F05-A03 J01-K04 H01-C07	Secretin	B04-J12 C04-J12
Sawdust	B04-A07D3 B04-A09G C04-A07D3 C04-A09G	Screens for discharge tubes fluorescent compositions production	L03-C L03-C02B L03-C04A	Security documents with magnetic recording	L03-B05H
filler/reinforcing agent for polymers	A08-R07	Screws for extrusion for mixing of polymer forms made of plastic	A11-B07+ A11-A03+ A12-H12	Sedative	B12-C08 B14-J01B2 C12-C08 C14-J01B2
Sawing of plastics	A11-A05+	Scutching fibres	F01-A02	Sedimentation of particles in liquids solids for differential separation waste water or sewage	J01-F01 J01-K03 D04-A01B D04-A01L D04-B09
SBR	A04-B03+	Sea farming	A12-W04+		
Scale inhibition additives for polymers in polymerisation vessels in water systems use of polymers in	A08-S08 A10-G02 D04-A03A A12-W11J	Sea food	D03-A02	Sedimentation separation in test	B11-C08D C11-C08D
Scale removing see Scale inhibition		Sea water desalination	D04-A D04-B07F	Seeding agent for polymerisation	A02-D
Scandium catalysts	N03-A01	Sea-island fibres	A12-S05B F01-E01	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 B12-N07 C12-N07 C14-U02 B12-K04 C12-K04 B12-P03 C12-P03 C14-U01B
Scandium compounds	B05-A03B C05-A03B E34-E01 E05-L03 E05-L03A	Sealants for refrigeration and ac for batteries for joining glass	A12-R08 G04-B02 J07-A10 A12-E06C L01-H07	coatings on coatings on, agricultural edible, preservation of extracts	
Scar treatment	B14-N17F C14-N17F	Sealing circuits into packages or housings composition polymers	L04-F05 G04-B02 A11-C01+	germination inhibitor	
Scarving (flame)	M23-C	Seals battery	A12-H08 A12-E06C L03-E01D L02-J01C L01-H04A L03-C03A A12-P03	husks	
Scent - see Perfumes		Seam welding electric arc resistance	M23-D01A1 M23-D02A2	meal	
Schistosomes	B04-B02B B04-P01 C04-B02B C04-P01	Seamed metal tube production	M21-C	protectant	
Schistosomicide	B12-B06 B14-B03B C12-B06 C14-B03B	Seasoning of wood or timber	F05-B	viability determination	
Schizophrenia treatment	B14-J01B3 C14-J01B3	Seats for automobiles fabric use	A12-T04B F04-E03C	yield increasing	
Scintillator	L03-G10S	Seaweed	B04-A07D5 B04-A08 C04-A07D5 C04-A08		
Schottky contacts manufacture in semiconductor processing	L04-C11B	artificial, e.g. for preventing erosion	F04-G	Seismic surveying	H01-A01A
Scopolamine	B04-A01 C04-A01	Sebacates plasticisers/ extenders for polymers	A08-P04	Selenide ceramics	L02-H05
Scouring composition production	G04-B08 D11-D04			Selenium (alloy or compound) photoconductor	G06-F07A
Scouring of fabrics	F03-B			Selenium catalysts	N04-A
Scrap recovery non-ferrous metal extraction polymers tyres	M25-E A11-C03+ A12-T01D				
Scrap treatment for iron and steel production	M24-A07A				

Selenium compounds		liquid phase deposition		materials, polymeric resists	A12-E07C
inorganic	B05-B02C	apparatus	L04-D03		A12-L02B2
	C05-B02C	ohmic contacts	L04-C11A	microwelding	L04-C17C
	E31-G	vapour deposition		nitride insulating layers	L04-C12B
organic	B05-B01D	apparatus	L04-D01	other conductive tracks	L04-C10F
	C05-B01D	Semiconductor processing	L04-C	oxide layers	L04-C12A
	E05-K	aligning masks and layers	L04-C06D	patterning techniques	L04-C06
Selenium element	B05-B02C	aluminium alloy		pellicle design/manufacture	L04-C06A1
	C05-B02C	antireflective coating	L04-C05A	phase change materials	L04-C28
	E31-G	conductive tracks	L04-C10C	photoetching	L04-C07G
Self-bonded		amorphous layers	L04-C03	plastics passivation layers	A12-E07C
Self-bonded non-woven fabrics		ancillary equipment	L04-D10		L04-C12E
	F02-C01B1	attaching lead frames	L04-C24	precious metal (alloy)	
Self-extinguishing property of polymers	A09-A01	buried layer production	L04-C10G	conductor tracks	L04-C10E
		by liquid phase etching	L04-C07C	resin encapsulation	A12-E04
		by plasma etching	L04-C07D		A12-E07C
Semen	B04-B02D	conductive + insulating lay formation	L04-C14		L04-C20A
	B04-F03	conductive layer conversion		resist coating apparatus	L04-D08
	C04-B02D	to semiconductor or insulator	L04-C10H	resist coating apparatus, photographic	
	C04-F03	conductive layers and track manufacture	L04-C10		G06-D06A
Semi-finished materials of polymers	A12-S+	conductive polycrystalline silicon layers	L04-C10B	resistor	G06-E04
Semi-liquid application to surfaces	J02-C02	conductive tracks, circuits	L04-C10A	resists	L04-C12G
Semi-liquid freezing	J07-B	contacts, terminals, electrodes manufacture	L04-C11	resists, photographic	L04-C06B
Semi-permeable membrane	A12-W11A	conversion of insulating layers to semiconducting or conducting layers	L04-C12F	sealing devices into housing	G06-D06A
	J01-C03	copper alloy conductive tracks	L04-C10D		L04-C21
gas separation use	J01-E03E	doping of layers and region electrodes	L04-C02	semiconductor-on-insulator	L04-C12C1
waste gas treatment use	J01-E02C	electrophotography encapsulation	L04-C11C	soldering apparatus	L04-D07
Semi-solid lubricant	H07-D	encapsulation, polymers in	A12-E04	soldering techniques	L04-C17A
Semicarbazone	B10-A13D	etching	A12-E07C	temporary bonding	L04-C17D
	C10-A13D	forming layers with simultaneous doping	L04-C07	terminal posts	L04-C11D
	E10-A13B	forming through holes	L04-C02A	thermoccompression bonding	
	E10-A13B1	between conductive layers	L04-C13A		L04-C17B
	E10-A13B2	furnace furniture, crucible boats, wafer supports etc.	L04-D09	through hole connection formation	L04-C13B
Semiconductive		glass passivation layers	L04-C12D	trench isolation	L04-C12C2
oxide compositions	L02-G07D	groove formation, dicing, chip cutting	L04-C07E	vapour phase etching, dry etching	
silicon	L04-A01	heat sinks	L04-C25	washing, rinsing and drying of wafers etc.	L04-C07B
Semiconductor devices	A12-E07C	heat treatment	L04-C16		L04-C09
	L04-E	hole and window manufacture	L04-C06C	Semiconductors	L04
assemblies	L04-F	insulating and passivating layers	L04-C12	ancillary processes	L04-X
assembly on a substrate	L04-F01	ion beam etching	L04-C07A	apparatus	L04-D
electrical fuses	L04-C10A1	isolation of mesas, islands	L04-C12C	bonding processes	L04-C17
lead frames	L04-C23	LOCOS	L04-C12C3	clean room	L04-X04
photographically produced	G06-D06	marking defective devices	L04-C19	encapsulation, moulds and handling equipment	L04-C20C
polymer use in substrates	A12-E07C	mask design and manufacture	L04-C06A	encapsulation, moulds and handling equipment, polymers in	
testing, process monitoring and control	L04-C22	mask design and manufacture, photographic	G06-D06A		A12-E04
	L04-C18	masking + patterning + etching	G06-E02	image sensors	A12-E07C
Semiconductor layer		masking and resist material	L04-C08	infrared detectors	L04-E05A
doping by diffusion	L04-C02D	masking and resist materials, photographic	L04-C05	integrated circuit encapsulation with lead	L04-E05C
doping by gaseous, liquid or solid contact	L04-C02C			frame assemblies	L04-C20D
doping by ion injection	L04-C02B			integrated circuit encapsulation with lead	
growth by chemical vapour deposition (CVD)				frame assemblies, polymers in	A12-E04
and plasma deposition	L04-C01B				A12-E07C
growth by epitaxial	L04-C01			lasers	L04-E03B
growth by liquid epitaxy	L04-C01A			light receiving and detecting devices	
vapour deposition	L04-C01C			recycling	L04-E05
Semiconductor manufacture					L04-X06
cathode sputtering	L04-D02			Fluorescent and luminescent materials for semiconductor manufacture	
diffusion apparatus	L04-D06				L03-G09G
heat treatment furnaces	L04-D05			materials	L04-A
ion and plasma deposition apparatus	L04-D04			memory elements	L04-E15

Metal coatings, processes	M13-F03A	Serotonin antagonist	B12-G01	Shaving	
photodiodes	L04-E02A		B14-J04	brush	A12-V04
photoresistors	L04-E05G		C12-G01	soapless	D08-B07
phototransistors	L04-E01G		C14-J04		
resistor	L04-C12G	Serotonergic	B14-J03	Shear precipitating fibres	
single crystals manufacture	L04-B		C14-J03	and fibrils	F01-C07
switches	L04-E08			Shearing of	
wafer production slicing,		Serum		fabrics	F03-A
polishing etc.	L04-B04	albumin	C04-B04D2	plastics	A11-A05
waste processing	L04-X02	blood	C04-B04D4	Sheath-core fibres	A12-S05B
	L04-X03	Servicing oil and gas wells	H01-C10		F01-E01
water production	L04-X01	Set accelerators for concrete		Sheathings for electrical	
		manufacture	L02-D14	conductors and cables	A12-E02+
Semipermeable		Setting			G02-A05A
property of polymer	A09-A09	fibres with heat	F01-H05	Sheaths, contraceptive	A12-V03B
Senile dementia treatment	B12-C10	film with heat	A11-B02C		
	B14-J01A4			Shedding mechanisms for	
	C12-C10	Severing of		looms	F02-A02
	C14-J01A4	fabrics (including webs)	F03-K03	Sheet metal working	M21-E
Senility treatment	B12-G04A	polymers	A11-A05+	bending and corrugating	M21-E01
	B14-J01A4			deep drawing	M21-E03
	C12-G04A	Sewage	B04-B04B	flanging	M21-E01
	C14-J01A4		C04-B04B	pressing and punching	M21-E02
Sensitisers for explosives	K04-G	treatment	A12-W11+	sheet mills (metal rolling)	M21-A03B
			D04-A01J	spinning	M21-E03
Sensitisers, photographic			D04-B01	stamping	M21-E02
chemical	G06-H01		E11-Q	straightening	M21-E01
optical	G06-H07+	Sewing	F02-F01+	stretch forming	M21-E03
spectral	G06-H07	accessories	F02-F01B+	structure manufacture	M21-E04
spectral, cyanine	G06-H07A	fasteners, button(holes) etc.		Sheet moulding compounds	A12-S
spectral, merocyanine/			F02-F01A1		
neutrocyanine	G06-H07B	threads	F01-E	Sheets	A12-S07+
spectral, oxanol	G06-H07C		F02-F01	casting process	A11-B04C
spectral, pyrylium	G06-H07D	to make specific goods	F02-F01A+	corrugated and	
Sensors (electrical)	A12-E13			discontinuous paper	
Sensors, non-electrical	A12-L04B	Sewing machine		and cardboard	F05-A04D
Separation		control devices,		extrusion of	A11-B07A
	B11-B	micro-computers etc.	F02-F01B1	forming of	A11-B08+
	C11-B	feed or removal or trimming	F02-F01B2	heat sealing/welding	
	E11-Q	thread cutter	F02-F01B2	involving	A11-C01A1
by adduct formation		workpiece feeder	F02-F01B2	laminated	A12-S07A
(petroleum)	H02-D02	Sexual dysfunction treatment	B14-P02	laminating	
methods for testing or			C14-P02	(excl. A11-B09A+)	A11-B09D
diagnosis	B11-C08B		B14-P04	reinforced plastics	A12-S08A
	C11-C08B	Female sexual dysfunction	C14-P04	transfer	A12-W07F1
of gases by liquefaction			B14-P04B		
or solidification	J07-D02	Male sexual dysfunction	C14-P04B	Sheets, bed linen	A12-D01
of particles from gases	J01-G		B14-P04A		F04-D01
			C14-P04A	Shell moulding of polymers	A11-B04B
Separation of		Shades, lighting (polymer use)	A12-L03	Shell moulds (polymer use)	A12-A02
of isotopes	J01-J	Shadow mask for CRT	L03-C03B	Shellac	A03-C02
	K08-X01	Shampoos	A12-V04A		B04-B04M
of particles from liquids	J01-F		B12-L05		C04-B04M
of solids	J01-K		B14-R02	Shells	K03-A01
Separators			C12-L05	Shielding	
oil production	H01-D04		C14-R02	for nuclear reactor	K05-B02
primary and secondary			D08-B04	from nuclear radiation	K07-A02
cells	A12-E06B	Shape and form of coatings	G02-A07	Ships (polymer use)	A12-T+
	L03-E01A	Shape memory property	A09-A05B	Shirts	A12-C03
	L03-E04G	Shaped glass manufacture by sol-gel process	L01-E08		F04-C03
fuel cell				Shiitake cultivation	D05-A04C
Sephadex ®	A03-A+	Shaping		Shock	
	B04-C02C	ceramics and refractories	L02-A03	anaphylactic shock	
	C04-C02C	dough	D01-A02	treatment	B14-G02B
Sequestering agents		polymers	A11-B+		C14-G02B
adding to water	D04-A03		A11-C+	electro-convulsive therapy	B12-D10
in detergents	D11-B06				B14-J06
polymer additives	A08-A07				C12-D10
Sermatophytes	B04-A08C				C14-J06
	C04-A08C				

plasma substitute treatment	B12-H06 B14-F11 C12-H06 C14-F11	Silage	B04-A07D B04-A09 C04-A07D C04-A09	organic compounds	B05-B01A C05-B01A
septic shock treatment	B14-S06 C14-S06	Silane adhesion improver or coupling agent	A08-M01D	organic compounds with Si-C bond (aliphatic or alicyclic)	E05-E02
toxic shock treatment	B14-S06 C14-S06	Silanes	E31-P06 E05-E	organic compounds with Si-C bond (aromatic)	E05-E01C
traumatic shock treatment	B14-S07 C14-S07	inorganic organic		organic compounds with Si-C bond (heterocyclic)	E05-E01B
treatment general	B14-S05 C14-S05	Silanes condensants/ monomers	A01-A03	organic compounds without Si-C bond	E05-E03 G01-A06
treatment of electric shock	B14-S05 C14-S05	Silanol condensants	A01-A03	pigments	A06-A+
treatment using electric shock (e.c.t.)	B14-J06 C14-J06	Silastic ®	A06-A+	polycondensates Reactive silicon compounds	D11-B11B1
Shock absorbers	A12-H09	Silica	L02-G01B E31-P02	Silicon incorporated/ incorporation by polymer modification	A10-E22A
Shock proofness of polymers	A09-A05A	alumina mixtures bound to enzymes	D05-A01A5 A02-D	Silicon polymer coatings	A12-B01C G02-A01A
Shoes	A12-C04 F04-C05	fillers	A08-R06A G01-A06	Silicone oils	A06-A+
production of	F04-F02	gel sorption (petroleum processing)	H02-B02 L01-A05	Silicone resins	A06-A+
Showers (polymer use)	A12-R02	glass compositions, high	L01-A04	adhesives	A06-A00E1 G03-B01
Shrink packages	A12-P04	glass compositions, low production or modification	E31-P01 L02-G12E	applications	A06-A00E+
Shrink proofing of fabrics non-resinous	A12-S05R F03-C04	use	E31-P03	compounding	A06-A00B
resinous	A12-G02 F03-C04	with alumina catalyst	N01-C01 N01-C01A N01-C01B	fabrication	A06-A00C
Shrink resistant textile finishes	A12-G02	without alumina catalyst	N01-D N01-D02	paints	A06-A00E1 G02-A01A
Shrinkability, thermal of polymers	A09-A01A	Silicate additive for detergents	D11-B11 D11-B11A	production	A06-A00A
Shrinking of fibres	A11-B02E F01-H05	inorganic		treatment	A06-A00D
of films	A11-B02E	Silicate filler	A08-R06B G01-A06	Silk	A03-C01 B04-B04A B04-N02 C04-B04A C04-N02
textiles	F03-A02	Silicic acid filler	A08-R06A G01-A06	dyeing/printing screen stencil	F03-F02 G05-A04
Shutdown of reactor controlled	K05-B06A1	Silicides		treatment to obtain natural fibres, chemical	F01-B01
Shutdown of reactors emergency	K05-B06A K05-B06A2	abrasive ceramic hard alloy	L02-F03 L02-H02B3 M26-B12	treatment to obtain natural fibres, mechanical	F01-A01
Shutters for windows (polymer use)	A12-R02A	Silicon (element)	B05-B02C C05-B02C E31-P06 B04-C03F C04-C03F	Siloxane polymers	A06-A+
Shuttle weaving	F02-A04A			Silver	
Shuttlecocks	A12-F01B			alloys	M26-B01 M11-A05
Shuttleless weaving	F02-A04B			electrodeposition	
Shuttles	F02-A05	Silicon catalysts	N01-D N01-D03	Silver alloy	
Siccatives	A08-C+ A08-D+ G02-B04	Silicon chip devices made photographically	A12-E07C G06-D06	contacts	L03-A01A1
Sickle cell anaemia treatment	B14-F03 C14-F03	Silicon containing adhesion improver for polymers	A08-M01D E05-E01A A01-A03	Silver catalysts	N02-E N02-E03
Side-by-side fibres	A12-S05B F01-E01+	as part of an organic ring condensants	A08-C+ A08-D05 A08-R06+ G01-A06 D11-B11 D11-B11D2	Silver compounds	B05-A03B2 C05-A03B2 E35-B E05-M E05-M03B
Sidewalls for tyres	A12-T01+	crosslinkers		use in radiation sensitive system (excluding halides)	G06-F
Siding for buildings	A12-R+	fillers		Silver halide (black and white film)	
Sieve cloths	A12-H04 F04-E05+	Inert compounds	D11-B11 D11-B11D2	bleaching, fixing developing	G06-G02 G06-G01 G06-G02
Sieving of solids	J01-K04	inorganic compounds	B05-B02C C05-B02C	fixing	G06-G04 G06-G03
Signalling pathway proteins	B04-N13 C04-N13	inorganic compounds excluding silica and silicates monomers	E31-P06 A01-A03	other process stabilisation	
Signs (polymer use) road	A12-W03 A12-R			Silver halide containing radiation sensitive system core-shell emulsion	G06-F01+ G06-F01B

tabular grain emulsion	G06-F01A	Skin protection formulations	A12-V04C D09-E	Slugicide	B12-N04 B14-B12 C12-N04 C14-B12
Silver oxide electrodes for batteries	L03-E01B7	Skin treatment	B12-A07 C12-A07		
Silver production	M25-G22	acne	B14-N17D C14-N17D	Slurries of polymers	A12-S
Silver recovery from photographic processing solutions	G06-E	burns	B14-N17A C14-N17A	Slurry coatings	G02-A07A1
Silver removal from waste water	D04-B05 D04-B05A	cancer	B14-H01W C14-H01W	Slurry explosives	K04-E01
Silylation reactions	E11-F10	cosmetics	B14-R01 C14-R01	Slurry treatment, non-ferrous metals	M25-E01
Singeing of fabric or textiles	F03-A	emollient	B14-R01 C14-R01	Slush moulding of polymers	A11-B04B
Single colour diffusion transfer material	G06-C10+	general	B14-N17 C14-N17	SMC	A12-S
Single crystals growing	J04-A04 L02-A09	lightening	B14-R01 C14-R01	Smectic (liquid crystal property of polymer)	A09-A02A
growth by Czochralski, Bridgman methods	L04-B01	wart	B14-N17 C14-N17	Smoke	B12-M01C C12-M01C
Single crystalline alloy	M26-C04	whitening wound	D08-B01D1 B14-N17B C14-N17B	alarms, detectors generation inhibitor for polymers	A12-R02 K04-C A08-F
Single nucleotide polymorphism	B04-E09 C04-E09	Skins (hides) treatment chemical physical/mechanical	D07-B D07-A	Smoked sheet (natural rubber)	A03-B
Sinks cleaner	A12-R02 D11-D01E	Skirts, clothing	A12-C03 F04-C03	Smooth muscle relaxant	B12-E07 B14-J05A C12-E07 C14-J05A
Sintering		Skis	A12-F01	Smoothing, ironing of textiles	F03-J02
by open furnace apparatus	J09-A04	Skylights	A12-R04	SMR	A03-B
ceramics	L02-A04	Slags		Smut treatment	C14-A06S
coating of (or on) metal	M13-H02	cement	L02-C03	Snake venom	C04-B04G
ferrous ore	M24-A01A	preparation	L02-B03	Snake-cage polymer	A07-A+
glass	L01-G02	treatment in iron and steel manufacture	M24-A07B	Snow chains	A12-T04E
metal powder	M22-H03B	treatment of ferrous melts	M24-C07	Snow production, for special purpose	J07-B02
non-ferrous ore	M25-A02			SNP	B04-E09 C04-E09
of polymers	A11-B14	Sleep inducing	B12-C08 B14-J01B2 C12-C08 C14-J01B2	Soaking pits for ferrous metal ingots	M24-D04A M21-N04
polymer pore formation by	A11-B06D	Sleeping bag	A12-D01	Soap	
Sinusitis treatment	B12-D07 B14-N04 C12-D07 C14-N04	Sleeve, bobbins	F01-H03A	additive for polymers	A08-S05 H08-E07
Site specific release	B12-M10E C12-M10E	Slicing, polishing		polymer use in	A12-V04+
using liposomes	B12-M10E1 C12-M10E1	semiconductor wafers	L04-B04	Soap detergent compositions	D11-C D11-C01C
using Antibodies	B12-M10E2 C12-M10E2	Slide fastener for clothing	A12-C03 F04-C04	liquid soaps	
Size control during extrusion of polymers	A11-B07D	fabrication of sewing of	F04-F01 F02-F01A1	Liquid soap type (hand washing compositions)	D11-D07F
Sizes, polymeric, for fabrics or textiles		Sliding contacts	L03-A01A4	soap bars	D11-C01A
sizes, polymeric, for fabrics or textiles	A12-G04	Slip agent additive for polymers	A08-M07	soap powders	D11-C01B
Sizing of paper		Slitting film to form fibres	A11-B02 F01-C05	soap with non-soap detergents	D11-C02
external	F05-A06B	Slitting of polymers	A11-A05+	Socket (polymer use)	
internal	F05-A06C F05-A06D	Sliver drawing of fibres	F01-F02	electric pipe	A12-E+ A12-H02C
Sizing yarn	F01-H06A	Slivers		Socks	A12-C03 F04-C02
Ski wax	G02-C	feeding of	F01-F04	Soda lime glass	L01-A01A
Skiing (polymer use)	A12-F01	Slub yarn	F01-E	Sodium bicarbonate	E33-D
Skin (or extract)	B04-B04E C04-B04E	Sludges		Sodium bromide	E33-B
Skin care preparations	A12-V04C D08-B09 D08-B09A1A D08-B09A1B	dewatering	D04-B10A	Sodium carbonate	E33-D
		fermentation	D05-A04A	Sodium carboxylmethyl cellulose	A10-E21A
		pyrolysis	D04-B10B	Sodium catalysts	N01-A01
		treatment of non-ferrous metal derived	M25-E01		

Sodium chloride in soil neutralisation	E33-B B12-N08 C12-N08 C14-T01	Soil suspending agent for detergents	D11-B05	Solutions	B12-M07 C12-M07 A12-S
Sodium compounds	B05-A01B C05-A01B	Sol gel processes ceramic manufacture	L02-A02A	of polymers	A12-S
inorganic	E33-S	Sol-gel process for glass manufacture	L01-C06	Solvent auxiliary	B12-M09 C12-M09
organic	E05-A E05-A02	shaped glass manufacture	L01-E08	Solvent based lacquers	A12-B01B
Sodium fluoride	E33-B	shaping glass by unspecific processes	L01-F05	Solvent dyeing	F03-F13+
Sodium halide	E33-B	Solar		of cotton or regenerated cellulose	F03-F13A
Sodium hydroxide	E33-A	cells (electrical)	A12-E11B L03-E05B	of other fibre substrates	F03-F13B
electrolytic production	E33-A01	heat collectors	A12-R02B J08-D	Solvent extraction	B11-B C11-B H02-C J01-C01
production	E33-A02	panels	A12-R02B	of non-ferrous metals	M25-B04
use	E33-A03	Solder glass	L01-H03	solid-liquid extraction	J01-C01A
Sodium incorporated/ incorporation in polymers	A10-E21+	Soldering	M23-A M23-A03	Solvent in detergent compositions	D11-B16
Sodium iodide	E33-B	apparatus		Solvent recovery/removal from polymer	A10-G01A
Sodium nitrate	E33-E	apparatus for semiconductor	L04-D07	Solvent vapour recovery from gases	J01-E01
Sodium oxide	E33-A	contacts or electrical components	L03-A01B6 A12-W12F	Solvents	
Sodium Oxide	E33-A04	flux	M23-A02	for gas storage	J06-B06
Sodium persulphate	E31-E03	flux removers	D11-D01B2	for polymers	A08-S02
catalyst for polymerisation	A02-A01	metal compositions	M23-A01	petroleum products	H08-D03
crosslinker for addition		methods	M23-A04	Solvents for incorporating agents in photographic layers	G06-H19
(co)polymers	A08-C05	printed circuits	L03-H04E6	Somatomedins	B04-H06H C04-H06H
crosslinker for other polymers	A08-D	semiconductors	L04-C17A	Somatostatin	B04-J10 C04-J10
redox polymerisation catalyst	A02-A03	testing	M23-A06	Somatotrophin	B04-B02D4 B04-J05J C04-B02D4 C04-J05J
Sodium sulphate	E33-C	together, to a substrate or in a circuit	L04-F02	Somatotropin-releasing factor	B04-J09 C04-J09
Sodium sulphite	E33-C	Soles	A12-C04	Soporific	B12-C08 B14-J01B2 C12-C08 C14-J01B2
Soft furnishings	A12-D01 F04-D	Solid food, testing and monitoring	D03-K04	Sorption (petroleum processing)	H02-B
Softeners for fabrics	A12-S05S D11-B15 F03-C05	Solid lubricant	H07-D	Sorption-type refrigeration	J07-A02
polymeric	A12-G F03-C05	Solid oxide electrolyte cells	L03-E04A	Sound insulation	A12-R06 L02-D15B
Soil consolidation	L02-D12	Solid personal face and body wash	D08-B09A2B	boards	A12-S04B
in mining	A12-W10C	Solid skin care formulations	D08-B09A1B	foam use in	A12-R06
polymer use	A12-A02	Solidified gases, vessels for	J06-B	in buildings	A12-T04B
Soil fumigant	B12-N07 C12-N07 C14-U02	Solidifying gases	J07-D01	in vehicles	A12-S01A
Soil improvers	A12-W04B B12-N08 C12-N08	for separation	J07-D02	polystyrene foam use in polyurethane foam use in	A12-S02F
Soil improving general	C14-T01 C14-T	Solids separation	J01-K	Soup	D03-H01H
Soil nutrients		by electrostatic or magnetic process	J01-K02	Soya beans	B04-B01C1 C04-B01C1 D10-A
inorganic	B12-N09 C12-N09 C14-T03	by flotation	J01-K03	oil from	D03-F02
others	B12-N10 C12-N10 C14-T04	by sieving, screening	J01-K04	protein from	A12-T+
Soil resistant textile finishes		using liquids, pneumatic tables or jigs	J01-K01	Space vehicles	A12-T+
non-resinous	A12-S05R F03-C02	Solubilisers	B12-M09 C12-M09 D11-B16	Spaghetti	D01-B02E
resinous	A12-G03 F03-C02	for detergent compositions		Spandex ® fibres	A05-G+ A12-S05D F01-D07
Soil stabilisation, consolidation	A12-A02	Soluble materials for pore formation of polymers	A08-B04		
in mining	A12-W10C	Solution (co)polymerisation	A10-B04		
		Solution formation (excluding by polymerisation)	A11-A03+		
		Solution graft copolymerisation	A10-C03C		
		Solution mining (non- ferrous metal extraction)	M25-B		
		Solution, coating polymer onto substrates	A11-B05D		

dyeing/printing	F03-F10	Spin dyeing	F03-F30	Spray steel refining	M24-B02E
Spark erosion	M23-D06	Spin finishes for fibres	F01-H06+	Spraying	J02-C01
Sparkling plug	L03-H05	Spin-bonding non woven fabrics	F01-C+ F02-C02	coating with polymer by deodorization metal	A11-B05B1 D09-B01B M13-C
Spasmogenic	B12-E05 B14-J05C C12-E05 C14-J05C	Spinal cord disease treatment	B12-E02 B14-N16 C12-E02 C14-N16	Spreading, coating with polymer by	A11-B05+
Spasmolytic	B12-E04 B14-J05D C12-E04 C14-J05D	Spindles, textile (general)	F01-G F01-H01	Springs	A12-H09
Spastic treatment	B12-E02 B14-J05D C12-E02 C14-J05D	Spinneret(te)	A11-B15A F01-C01	Sprouting inhibitor (plants)	B12-P09 C12-P09 C14-U01E
Special amorphous form	B12-M11H1 C12-M11H1	Spinning	A11-B15+ F01-C08	Sprues	A11-B12+
Special dietary requirement foods e.g. diabetic, gluten free	D03-H01T5	artificial filaments, chemical features, general automated yarn system	F01-D F01-G04 A11-B15A A11-B15C F01-C08A A11-C05C1	Spun bonded fabric	A12-S05G F02-C01
Special form catalyst	N06-C	flash heads melt	A11-B15A A11-B15B F01-C08B A11-B15B1 F01-C08B1	Spunlacing of non-woven fabric	F02-C02F
Special paper and carboard types	F05-A06+	melt, high speed	A11-B15B1 F01-C08B1	Sputter coating of metal	M13-G
Speciality product (petroleum)	H08-D	open-end optical glass fibres	F01-G05 F01-C07E F01-D09B F04-G01 L01-F03G F01-G01 F01-G02 M21-E03 A11-B15C F01-C08C	metal, apparatus including target metals metal, processes polymer with metal	M13-G02 M13-G01 A11-C04B1
Spectacles frames lens	A12-L03 A12-L02A A12-V02A	ring ringless sheet metal wet	F01-G01 F01-G02 M21-E03 A11-B15C F01-C08C	Sputtering of ceramics	L02-A02B
Spectral analysis optical spectroscopy GC-MS mass spectrometry	J04-B01A J04-B01A2 J04-B01C5A J04-B01A1	Spirella	B04-B02B3 B04-F08 C04-B02B3 C04-F08	Squeeze bottles	A12-P06A
Spectral sensitiser cyanine merocyanine neutrocyanine oxanol pyrylium	G06-H07+ G06-H07A G06-H07B G06-H07B G06-H07C G06-H07D	Spiropyran, dye precursor	E26-B	Stabilisers	A08-A+ B12-M06 C12-M06 A08-A06 A08-A05 A08-A04 A08-A04A A08-A02 A08-A03 A08-A01+
Spectrophotometric tests	B11-C07B2 C11-C07B2	Spleen treatment	B14-N15 C14-N15	antioxidant antiozonant heat heat, metal containing ionising radiation light or U.V. multifunctional	A08-A01A A08-A01B D08-B11 D11-B12 A12-A02 K04-G F03-C07 D03-H01Q
Spectroscopy (mass) testing	B11-C08A C11-C08A	Splicing of fibres	F01-H03B	Stabilisers for addition polymers condensation polymers cosmetics detergents earth explosives fabrics food (chemical) photographic developers and emulsions photographic images polymeric foam, structural polymers polyolefins	A08-A01A A08-A01B D08-B11 D11-B12 A12-A02 K04-G F03-C07 D03-H01Q
Sperm	B04-B02D B04-F03 C04-B02D C04-F03	Splints	A12-V03A D09-C04C	Stabilising after silver halide development (black and white photography)	G06-G03
Sperm ejaculation inhibitors	B12-K03 B14-P01A C12-K03 C14-P01A	Splitting film to form fibres	A11-B02 F01-C05	Stabilising other colour development (photography)	G06-G13
Spermaceti oil	B04-B01C2 C04-B01C2	Sponge iron production	M24-A03	Stain resistor for detergents	D11-B05
Spermicide	B12-K03 B14-P01A C12-K03 C14-P01A	Sponge, polymeric	A12-S+	Staining of wood	F05-B
Spheres	E12-A13	Spoons	A12-D03	Stairs, staircases	A12-R02
Spheroidal graphite cast iron production	M24-C05	Sports areas equipment goods, foam use in	A12-F01A A12-F01+ A12-S04D	Stamping of paper polymers sheet metal	F05-A05B A11-C04C M21-E02
Spike for fertiliser	B11-C C11-C	Spot welding, resistance	M23-D02A3	Stannic, stannous - see Tin	
Spin dryer for laundering fabrics	F03-J01	Spray booths cleaning/maintenance Spray detergent/cleaning	G02-A06A D11-D02C		
		Spray drying purification of polymers by	J08-G06 A10-G01+		

Staphylococcus	B04-B02B1 B04-F10B3 C04-B02B1 C04-F10B3	Steel production	M24-A	5 (10) or 1(10) - Androstene	B01-C11 C01-C11
		analysis	M24-A06		
		apparatus	M24-A05	5 (10) (or 1(10)) - Gonenenes	B01-C11 C01-C11
		control	M24-A06		
Staple fibres	A12-S05E F01-E09	laboratory method for refining	M24-A06	5 (10) (or 1(10)) - Pregnene	B01-C08 C01-C08
production by cutting	F01-F	liquid steel production	M24-A03	1 (or 2)-Androstene	B01-C10 C01-C10
Staple yarn	F01-E09	metallothermic process	M24-A04		
		scrap and slag treatment	M24-A07	1 (or 2)-Estrenes	B01-C10 C01-C10
Starch	A03-A+ B04-C02B C04-C02B D06-H01	Stencils	A12-W07+ G05-A04	1 (or 2)-Gonenenes	B01-C10 C01-C10
		printing			
acrylonitrile graft co-polymer	A03-A+ A04-D03+ D11-B10	Stent	B11-C04A1 C11-C04A1 D09-C01F	1 (or 2)-Pregnene	B01-C07 C01-C07
				3 (or 4)-Androstene	B01-C09 C01-C09
as detergent additive	B04-C02B3	Stentering of fabric	F03-A02+ A11-B02+	3 (or 4)-Estrenes	B01-C09 C01-C09
modified	C04-C02B3	polymer			
modified	D06-A	Stereochemistry	B11-C01D C11-C01D	3 (or 4)-Gonenenes	B01-C09 C01-C09
processing raw material	D04-B04			3 (or 4)-Pregnene (excluding progesterone and testosterone)	B01-C06 C01-C06
removal from waste water		Stereographic moulding	A11-B16		
Static electricity, application of electro (in)organic material	L03-H04B	Stereolithographic moulding	A11-B16		
		Stereospecific polymerisation catalyst excluding transition metal (compounds)	A02-A08	Steroids of unknown structure	B04-B02D1 B01-E B04-J02 C01-E C04-B02D1 C04-J02 E01 E01-P E01-U
Stators for electric motors (polymer use)	A12-E08B	Sterilisation			
Steam condenser	J08-A	and hygiene, polymer use	A12-V03C1		
auxiliary system	J08-A05	chemical method	D09-A01		
direct contact	J08-A02	of alcoholic beverages	D05-F	production use	E01-P E01-U
indirect contact	J08-A01	of animals	B12-K03 B14-P01 C12-K03 C14-P01 B14-P01B C14-P01B	Sticking plaster	A12-V03A B12-M02D C12-M02D D09-C04B
Steam curing concrete	L02-D04				
Steam distillation, polymer- purification by	A10-G01+	of female animals	B14-P01B		
Steam raising plant (nuclear)	K06-A	of insects	B14-B07 C12-K03 C14-B07	Stilbene	
Steaming				fluorescent brightener	E24-A01
coffee	D03-D01D	of male animals	B14-P01A C14-P01A F05-A04E	photographic brightener	G06-H09B
tea	D03-D02D				
Stearates of metal as lubricants/mould release agents	A08-M03+	of paper making equipment	A11-C	Stimulated emission of radiation	G06-A09 L03-F
Stearyl acrylate (co)polymers	A04-F06+ A01-D10B	of plastics	D04-A02		
monomer		of water	D09-B	Stimulation, well	A12-W10B
Stearyl methacrylate (co)polymers	A04-F06+ A01-D10B	or air	D09-A02	Stirrer	D03-K07
monomer		physical method by irradiation	D09-A02A	Stirring of food	D03-K07
Steel alloy	M27-A04	Sterilisation of food	D03-H02	Stirring of polymers	A11-A03
treatment	M27-B04			Stitch-bonding for non-woven fabrics	F02-C02A
Steel filler/reinforcing agent for polymers, including wires or cords	A08-R05	Sterilising compositions, medical	A12-V03C1	Stockings	A12-C03 F04-C02
		Steroid biosynthesis	D05-C04		
Steel melt treatment	M24-C	Steroid of known structure	B01 C01 E01	Stomach disease treatment	B14-E10B C14-E10B
alloying of ferrous melts	M24-C08				
apparatus	M24-C09	with aromatic ring "A"	B01-A C01-A	Stones	
decarburising	M24-C06			artificial	A12-R01
deoxidising	M24-C02	with one double bond in ring "A"	B01-C C01-C	polymer coatings on	A12-B08
dephosphorising,					
desulphurising	M24-C01	production	E01-P	Stoppers, for containers	A12-P03
inoculation, spheroidising	M24-C05	with saturated ring "A"	B01-D C01-D	metal casting	M22-G03G1
killing, balancing	M24-C03				
removing other impurities	M24-C04	with two double bonds in ring "A"	B01-B C01-B	Storage	E11-S
using slags or fluxes	M24-C07			batteries	A12-E06+
Steel processing	M24-B02	use	E01-U	containers	A12-P+
by converter process	M24-B02C	5 (10) or 1 (10) - Estrenes	B01-C11 C01-C11	control	J06-B08
by crucible process	M24-B02A			devices (heat)	G04-B01
by electro-process	M24-B02D			phosphor for X-ray material	G06-A09
by hearth process	M24-B02B			of gases and liquids	J06-B

Storage of gas	J06-B	Strippable coatings	G02-A05	Subbing agent	A08-M01+
glass	L01-J04	polymeric	A12-B+	for polymers	G06-A01
hydrogen	E31-A02B	Stripping agent or layer for		photographic	
liquid	J06-B	photography	G06-A05	Sublimation	J01-A04
plastics/polymers	A11-C06	Stripping, purification of		dyeing/printing	F03-F27
Storage tank	B11-C06	polymer by	A10-G01+	Submerged arc welding	M23-D01A3
	C11-C06	Stroke treatment	B14-N16	Substitution process	B11-C01
for oil or gas	H03-E		C14-N16		C11-C01
of plastics	A12-P05	Strontium catalysts	N01-B		E11-H
Stoves for heating blast, iron and steel		Strontium compounds	B05-A01B	Substrates	
production	M24-A05E		C05-A01B	electrophotographic	A12-L05D
		inorganic	E34-D03		G06-G05B
preheating, cooling or			E34-D03C	for printed circuits,	
drying hot blast	M24-A05E1	organic	E05-B01	ceramic	L03-H04E5
Straight chain olefins		Stuffer-box crimping	F01-H04A	for printed circuits, plastic	A12-E07A
monomer	A01-D13	Stuffings (non-woven)	F02-C01		L03-H04E1
polymers	A04-G+	Styrenated polyesters	A05-D02+	manufacture for	
polymers, polyethylene			A08-C07A	semiconductor devices	L04-C22
(HDPE)	A04-G02+	Styrene	E10-J02B	Succinic acid	E10-C02D
Straightening sheet metal	M21-E01	(co)polymers with			E10-C02D2
Stranding of fibres	F01-H01	acrylonitrile	A04-C04B	Succinic condensant	A01-E12
Strapping (packaging use)	A12-P07		A04-D03+	Sucker growth inhibitor	B12-P09
Straw	B04-A07D4	(co)polymers with			C12-P09
	B04-A09H	acrylonitrile + butadiene	A04-C03		C14-U01E
	C04-A07D4	(co)polymers with butadiene	A04-B03+	Suede leather, artificial	A12-B02A
	C04-A09H	(co)polymers with			F04-B01+
extracts	B04-A10J	divinylbenzene	A04-B10	Sugar (sucrose)	D06
	C04-A10J		A04-C04		E07-A02H
Strengthening additives for		(co)polymers with		cutting	D06-E
concrete manufacture	L02-D14B	ethylene-butylene		extraction from molasses	D06-F
Streptococcus	B04-F10B4	(block terpolymer)	A04-C04	invert	D06-G
	C04-F10B4		A04-G04	juice treatment	D06-B
			A04-G06+	packing	D06-E
Streptomyces	B04-B02B2	(co)polymers with isoprene	A04-B07	production of crystals	D06-C
	B04-F10B5		A04-C04	raw, material processing	D06-A
	C04-B02B2	(co)polymers with others	A04-C04	raw, processing of	D06-C
	C04-F10B5	crosslinking agent for		sorting	D06-E
		addition (co)polymers	A08-C07A	yield in cane increasing	B12-P04
Streptomycin	B02-S	crosslinking agent for			C12-P04
	C02-S	other (co)polymers	A08-D		C14-U01C
Stress relieving, ferrous metal	M24-D02B	homopolymer	A04-C02+	Sugars	
Stretch fabrics	F02-G04+	monomer	A01-D03	biosynthesis of	D05-C08
Stretch films for packaging		Styrene polymer - see also		measurement of	J04-B01B1
(polymer use)	A12-P+	Polystyrene		other than sucrose	D06-G
Stretch forming sheet metal	M21-E03	adhesive	A04-C+	other sugar derivative	B10-A07E
Stretch-blow moulding of			A12-A+		C10-A07E
polymers	A11-B10		G03-B02D3		E10-A07E
Stretchers (polymer use)	A12-V03	paint, varnish lacquer	A04-C+	unmodified sugar	B10-A07A
Stretching following extrusion			A12-B+		C10-A07A
of polymers	A11-B07D		G02-A02D4		E10-A07A
Stretching of		Styrene substituted by		Sugar acid	B10-A07C
artificial fibre	A11-B02B	alpha methyl	E10-J02B		C10-A07C
	F01-C06	monomer	A01-D03	Sugar alcohol	E10-A07C
	F03-A02	polymer	A04-C05		B10-A07B
fabrics		Styrene sulphonic acid			C10-A07B
fibre	A11-B02B	(co)polymers	A04-C	production by fermentation	D05-C17
	F01-C06	monomer	A01-D02	Sugar amine	B10-A07D
film	A11-B02A	Styrenes optionally substituted	A04-C+		C10-A07D
polymers	A11-B02+				E10-A07D
Strips, dental	D08-B08D	Styrenes, halo-substituted		with known structure,	
whitening	D08-B14D	(co)polymer	A04-C	heterocyclic	B07-A02
Strip mills (metal rolling)	M21-A03A	Styropor ®	A12-S01+		C07-A02
		Styryl dye	E25-B		E07-A02
		Subbed photographic film	A12-L01	with known structure,	
			G06-A01	non-heterocyclic	B10-A07
					C10-A07
					E10-A07

with unknown structure (mono or disaccharide)	B04-D01 C04-D01	Sulphonated polymer	A10-E12A	Sulphur dioxide	B05-C05 C05-C05 E31-F
Suitcases	A12-T	Sulphonated styrene- divinyl benzene copolymer	A10-E12A	(co)polymers monomer	A04-A A01-A
Sulfur - see Sulphur		Sulphonation of styrene- divinyl benzene copolymer	A04-B10 A04-C04 A10-E12A	Sulphur dioxide removal from water	D04-B07D
Sulphamic acid (or derivative) inorganic	B05-C03 C05-C03 E31-H03	Sulphonation process	B11-C01 C11-C01 E11-H E11-F09	Sulphur dyes for dyeing/printing fibres	E25-E F03-F24
organic	B10-A08 C10-A08 E10-A08	by addition reaction for detergent preparation of polymers	D11-D05 A10-E12A	Sulphur oxide	B05-C05 C05-C05 E31-F03 H06-C03C E31-F04
Sulfate, aliphatic	E10-A09A2	Sulphone	B10-A10 C10-A10 E10-A10	production removal use	
Sulfate, aromatic	E10-A09A3	Sulphonic acid (or derivative)	B10-A09B C10-A09B E10-A09B E10-A09B1 D11-A01B E10-A09B1	Sulphur oxyacid (or inorganic salt)	B05-C05 C05-C05 E31-F03 E31-F05
Sulphate ester detergents	D11-A01F	anhydride detergents ester	B10-A01 C10-A01	Sulphur recovery from waste material	E31-F01
Sulphate, cellulose	A03-A03 B04-C02A3 C04-C02A3 D06-H	Sulphonium compounds	B10-A01 C10-A01	Sulphur removal from catalysts	E31-F01
Sulphate, inorganic - see also specific cations	B05-C05 C05-C05 E31-F	as disinfectant other than for food or air organic	D09-A01B E10-A01	Sulphur removal from waste material (catalytic)	E31-F01D
Sulphate, organic	B10-A09A C10-A09A E10-A09A	Sulphonyl halide inorganic	B05-C05 C05-C05 E31-F E10-A09B1	Sulphur removal from waste material (non-catalytic)	E31-F01E
Sulphated polymer	A10-E24	organic	B10-A08 C10-A08 E10-A08	Sulphuric acid (or inorganic salt)	B05-C05 C05-C05 A02-A04 B10-A09A C10-A09A E10-A09A E31-F03 E31-F05
Sulphation, sulphurisation of polymer	A10-E24	Sulphonylurea	B10-A08 C10-A08 E10-A08	catalyst ester	
Sulphenamide, organic	B10-A08 C10-A08 E10-A08	Sulphoxide	B10-A10 C10-A10 E10-A10	production use	
Sulphenic acid (or derivative) organic	B10-A09C C10-A09C E10-A09C	Sulphur (elemental)	B05-C06 C05-C06	Sulphurous acid (or inorganic salt)	B05-C05 C05-C05 E31-F
Sulphide ceramics	L02-H03	production, from waste material	E31-F01	Sulphurous acid ester	B10-A09A C10-A09A E10-A09A
Sulphides of mercury, cadmium and zinc	L04-A03A	production, other use	E31-F02 E31-F04	Sultam, dye precursor	E26-B
Sulphides, inorganic (general)	B05-C05 C05-C05 E31-F02 E31-F04	Sulphur acid amide	B10-A08 C10-A08 E10-A08	Sultone, dye precursor	E26-B
production use		Sulphur catalysts	N04-C	Sun screen agent	B12-L08 B14-R05 C12-L08 C14-R05 D09-E01
Sulphinamide, organic	B10-A08 C10-A08 E10-A08	Sulphur compound activator	A08-C02 A08-D	Sunblinds	A12-R02A
Sulphinic acid (or derivative) organic	B10-A09C C10-A09C E10-A09C	Sulphur concrete	L02-D07	Sunflower oil	B04-B01C1 C04-B01C1 D10-A
Sulphite, inorganic - see also specific cations	B05-C05 C05-C05 E31-F	Sulphur containing acid, vinyl ester of (co)polymers monomer	A04-A A01-A	Sunglasses	A12-C02
Sulphite, organic	B10-A09A C10-A09A E10-A09A	Sulphur containing inorganic compound removal from water	D04-B07D	Sunscreen	D09-E01
Sulphohalogenated polymer	A10-E12B	Sulphur containing organic detergent additive	D11-B17	Super absorbents polymer application in	A12-W13
Sulphoisophthalic acid based saturated polyester	A05-E05	Sulphur containing vulcanising agent		Superconductive devices polymer application in	L04-E09 A12-E16
Sulphoisophthalic condensant	A01-E11	for addition polymers for other polymer	A08-C04 A08-D	Superconductor nanomaterials	L03-A01C L03-A01C4
Sulphonamide, organic	B10-A08 C10-A08 E10-A08				

Support, catalyst polymeric	A02-D A12-W11K	polymer compositions use as	A12-W12+	Swimming suits	F04-C01 F04-C03
Supports for coatings forming the support on otherwise unsuitable material	L03-B05L3 L03-B05L	polymer compositions use as cleaning compositions (excluding W12A)	A12-W12B	Switches, electrical	A12-E07+ L03-B04A
magnetic recording metal polymeric	L03-B05L2 A12-E08A+ L03-B05L1	polymer compositions use as detergents for fibre/fabric	A12-W12A	Switches- semiconductor polymer use in	L04-E08 A12-E07C
polymerisation catalysts	A02-D	polymer compositions use as, others	A12-W12C	Sydnone	B07-E04 C07-E04 E07-E04
Supports, photographic	A12-L01 G06-B+	removal from water	D04-B06C	Sylvine (KC1)	B05-A01A C05-A01A E33-B
glass; other than specified below	G06-B	Surfactants (general)	D11-A	Sympathetic blocker	B12-E06 B14-J02D
metal	G06-B03	Surfactants excluding cleaning/ detergent compositions	A12-W12C		C12-E06 C14-J02D
paper	G06-B02	anti-foaming agent	A08-S03		
polymeric	G06-B01	anti-static agent	A08-S04		
Suppository (for polymer use in, see also A12-V01)	B12-M08 C12-M08	emulsifier	A08-S05	Sympathetic depressants	B14-J02D C14-J02D
Surf boards	A12-F01	for fabrics	F03-C05		
Surface active agents - see Surfactants		protective colloid	A08-S06	Sympathetic stimulant	B12-E07 B14-J02C C12-E07 C14-J02C
Surface colouring agents of polymers	A08-E+ A11-A01+	solvent	A08-S02		
Surface hardening, ferrous metal	M24-D02A	swelling agent	A08-S02	Sympatholytic	B12-E06 B14-J02D C12-E06 C14-J02D
Surface modification/ modified polymer	A10-E+	wetting agent	A08-S05 H08-E07		
Surface treated polymers	A11-C04+	Surge arresters	L03-B04E	Sympathomimetic	B12-E07 B14-J02C C12-E07 C14-J02C
Surface treatment of concrete	L02-D14	Surgical	A12-V03		
glass (coating)	L01-G04	gloves	A12-C02	Synergist	B12-C09 B14-S09 C12-C09 C14-S09
glass (colouring)	L01-G05	gowns/masks	A12-V03C1		
glass (mechanical)	L01-G06	gowns/masks, fabric in product, textile use in	D09-C04D F04-E04	Syntactic foams	A12-W12
glass fibres	L01-F03A	sponge	A12-V03	Synthetase	B04-L08 C04-L08
metal by multistage chemical process	M14-H	tape and dressings	A12-V03A D09-C04B	agonists	B14-L01A6 C14-L01A6
polymers	A11-C04+	Surlyn ®	A10-E21B	inhibitors	B14-D10 C14-D10
polymers, chemical	A11-C04D	Suspended particles, separation from liquids	J01-F	Synthetases - see Ligases	
polymers, coating with non-polymeric material	A11-C04B2	Suspenders	F04-C04	Synthesis	H06-A05
Polymers, embossing	A11-C04C	Suspending agent	B12-M09 C12-M09	Synthetic growth medium	C14-T01A
polymers, material	A11-C04B2	for polymer	A08-S+	Synthetic food colorant	D03-H01E2
polymers, metallising	A11-C04B1	Suspension	B12-M14 C12-M14	Synthetic leather	A12-B02A F04-B1+
polymers, painting	A11-C04A	Suspension formation (excluding by polymerisation)	A11-A03	Synthetic pulp production	F01-J02 F01-C07D
polymers, printing	A11-C04A	Suspension polymerisation involving condensation	A10-B05 A10-D+	Syphilis treatment	B12-A05 B14-A01A C12-A05 C14-A01A
polymers, treatment or irradiation	A11-C04E	involving grafting by addition	A10-C03B		
Surfaces, treatment of optical glass fibres	L01-F03A1	Sustained release	B12-M10A C12-M10A	Syringe components	B11-C02C C11-C02C
polymers, by corona discharge, plasma		Sutures	A12-V03 D09-D F04-E04	Syringe disposal apparatus	B11-C02D C11-C02D
Surfaces, pretreatment, for application of adhesives (see also A8-M01+ for adhesion improvers)	G03-B03	fibre use in	F04-E04	Syringes	B11-C02 C11-C02
Surfactants	A08-S+ B12-M09 C12-M09 D11	Swabs	A12-V03A D09-C04B	dental hypodermic	D08-A04 B11-C02A C11-C02A
as detergents	D08-B13	Sweetening (petroleum refining)	H04-A01		
for cosmetics	A12-S05S	Sweetening agent	B12-J01 B14-E11 C12-J01 C14-E11		
for fabrics	F03-C05		D03-H01A		
for polymers	A08-S+	Swelling agent for polymers	A08-S02		
		Swimming pools	A12-F01A		

needles B11-C02B
C11-C02B
A12-V03D
polymer use
Syrup processing D06-C
Syrups of polymers A12-S
systems A12-W07F1

T

T(a)eniicide B12-B02
B14-B03C
C12-B02
C14-B03C
T(a)enifuge B12-B02
B14-B03C
C12-B02
C14-B03C
Table linen F04-D02
Tables A12-D01
Tablets A12-V01
C12-M11
E12-A09A
D11-D02A
detergent B12-M11J
effervescent B12-M11
general B12-M11B
pressed B12-M11K
with greater than one layer B12-M10A3
multi-layer C12-M10A3
Tabletting machine B11-C05
C11-C05
Tableware A12-D03
glass, coatings on L01-G04E
Tachykinins B04-J14
C04-J14
Tackifier for polymers A08-M05
Tags, labels A12-P
Take off devices for
knitting machines F02-B04
metal working other than
rolling mills M21-N01
rolling mills M21-A05
Talc filler A08-R06B
B04-D02
C04-D02
Tampons A12-V03A
D09-C02A
B12-M17
C12-M17
Tank cars and trucks (for
oil products) H03-C
Tanks, drums (including linings) A12-P05
Tanning compositions D07-B
Tantalum catalysts N03-C
N03-C03
for polymerisation A02-A06
Tantalum compounds B05-A03B
C05-A03B
inorganic E35-N
organic E05-N
E05-N03A
Tapered fibres A12-S05A
F01-E02
Tapes
adhesive A12-A01
electrical insulation A12-E03
fabric F02-E02
film use in A12-S06+

magnetic A12-E08A1
L03-B05A
packaging (strapping) A12-P
teeth cleaning D08-B08D
teeth whitening D08-B14D
Tapestries F02-E03
Tapeworm treatment B14-B03C
C14-B03C
Tar in polymeric blend A07-A01A
Tar paint A03-C03
A12-B01D
G02-A02A
Tar removal from water D04-B03
Tar sands production and
treatment H01-D11
Tar-bonded refractory L02-E07
Tarpaulins F04-B
Tars A03-C03
B04-D02
C04-D02
Taste modifying
enhancement D03-H01B+
masking D03-H01B2
B12-M20
C12-M20
D03-H01B1
Tatami A12-D
A12-D01
Tautomerase B04-L07
C04-L07
Taxanes B06-A03A
C06-A03A
TDI condensant A01-E02
TDI crosslinking agent
for addition polymers A08-C09A
for other polymers A08-D04A
Tea D03-D
general D03-D02
Tea bags D03-D02A
Tea substitutes D03-D03B
Tear gas activity B12-C05
C12-C05
Tear strips for containers,
packaging A12-P03
Technetium catalysts N03-E
Technetium compounds B05-A04
C05-A04
inorganic E35-Y
organic E05-M
E05-M03
Tedlar ® A04-E10A
Teeth (dental) B04-B04E
C04-B04E
cleaning preparation A12-V04B
D08-B08
false A12-V02B
D08-A03
floss D08-B08E
whitening general D08-B14+
toothpaste, tooth powder D08-B14A
mouthwash D08-B14B
gels D08-B14C
strips D08-B14D

Teflon FEP®	A04-E09 A04-E10D	Test equipment (petroleum refineries)	H05-K	Tetrahydropyran	B07-A02 C07-A02 E07-A02
Teflon TFE ®	A04-E08+	Test sampling devices	B11-C08C C11-C08C	Tetrahydropyridine	B07-D04D C07-D04D E07-D04D
Television cabinets tubes	A12-D01 A12-E11A	Testing	B12-K04 C12-K04	Tetramethylene glycol condensant	A01-E14
Telluride ceramic	L02-H05	batteries	L03-E07	Tetramethylthiuram disulphide accelerator for crosslinking agents for addition polymers for other polymers	A08-C03 A08-D
Tellurium (element)	B05-B02C C05-B02C E31-G	catalysts	N06-D J04-E10	Tetraol condensants alcohols phenols	A01-E14 A01-E13
Tellurium catalysts	N04-A	cement and ceramics concrete	L02-A08 L02-D08	Tetraoxane condensant (co)polymers condensant	A05-H02+ A01-E09
Tellurium compounds inorganic	B05-B02C C05-B02C E31-G	electrical equipment use in fabrics	A12-E13 F03-K02	Tetrazole	B07-D13 C07-D13 E07-D13C
organic	B05-B01D C05-B01D E05-K	fibres	F01-H	Tetron ®	A05-E04+
Telogens (for telomerisation)	A02-B	for bacteria	D05-H04	Textile dyes	A08-E03+ E02 F03-F16+
Telomerisation	A10-B08	for fungi	D05-H05	Textile finishes	A12-G+ A12-S05+ F03-C+
Temperature applications (electrical) control devices	A12-E10 A09-D+	for plant disorders	B12-K04D C12-K04D	Textile mechanical processing crimping	A11-B02D F01-H04+
measurement (electrical) sensitive compositions	A12-E10 G04-B09	for substances other than for diseases	B12-K04E C12-K04E	fibrillating	A11-B02+ F01-C05
Temperature swing adsorption	J01-E03J	fuel cells	L03-E07	heat setting	A11-B02C F01-H05
Tendon, artificial	D09-C01D	genetic	D05-H09	melt blowing	A11-C05A1
Tenebrescent materials	G04-A01	glass	L01-M	orienting	A11-B02B F01-C06
Tennis	A12-F01+	medical equipment use in method involving separation	A12-V03C2	others producing fabrics	A11-C05C A11-C05A F02+
Tensile strength	A09-A05	microbiological	B11-C08D C11-C08D	stretching	A11-B02B F01-C06
Tension devices	F01-H08	oil storage	D05-H09	twisting, winding	A11-C05B F01-H01 F01-H03+
Tentering of fabrics plastics	F03-A02 A11-B02+	paper	F05-A05A	Textile oils	H08-D06
Tents	A12-F01	polymers	A09-C	Textiles	
Terbium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	refractories	L02-A08	carriers for microorganisms	D05-A03A
Terephthalic (acid or derivatives) condensant	A01-E11	semiconductors	L04-C18B	nuclear applications to polymer use in, (meth)acrylic ester (co)polymers	K09-F A04-F06E2 F01-D08
Terephthalic acid	B10-C02 C10-C02 E10-C02C E10-C02C1B E10-C02C2B	viruses	D05-H06A	polymer use in, (meth)acrylonitrile (co)polymers	A04-D03B F01-D02
Terephthalic acid derived saturated polyesters	A05-E04+	yarns	F01-H	polymer use in, (meth)acrylonitrile homopolymers	A04-D02B F01-D02
Terephthalic acid polyester - see Polyester, saturated		Testosterone	B01-C05 C01-C05	polymer use in, aramid	A05-F05 F01-D03B
Terminal posts for semiconductor devices	L04-C11D	Tests	B11-C07 C11-C07 E11-Q		
Terpenes or terpenoids	B10-J02A C10-J02A	Tetrabromobisphenol A condensant flame retardant	A01-E13 A08-F04B		
Terpene resins	A03-C	Tetracarboxylic condensants aliphatic/alicyclic aromatic	A01-E12 A01-E11		
Terpene-phenol resin	A05-J	Tetracycline	B02-T C02-T		
Terylene ®	A05-E04+	Tetrafluoroethylene- trifluoro-nitrosoethylene copolymer	A04-A04 A04-E09		
		Tetrafluoroethylene (TFE)	E10-H02B E10-H03A3 E10-H04A3		
		(co)polymers homopolymer monomer	A04-E09 A04-E08+ A01-D12		
		Tetrahydrofuran (THF)	B07-A02 C07-A02 E07-A02		
		(co)polymer based polyether	A05-H05 A01-E08		
		condensant	A01-E08		
		Tetrahydrophthalic condensant	A01-E12		

polymer use in, cellulose acetate	A03-A02A F01-D01	ceramics/glass use in, flexible sheet	L02-D15C	Thiazole	B07-F01 C07-F01 E07-F01
polymer use in, polyamide	A05-F01E1 F01-D03	ceramics/glass use in, panels	L02-D15B	photographic brightener	G06-H09D
polymer use in, polyester	A05-E01B F01-D04	polymer use in, building and general	A12-R06	Thick film	
polymer use in, polyethylene	A04-G02E1 F01-D05	polymer use in, foam	A12-S04B	capacitors and pastes	L03-B03C
polymer use in, polypropylene	A04-G03E F01-D05	polymer use in, foam, polyurethane	A12-S02F	capacitors and pastes, polymer use in	A12-E07B
polymer use in, polysaccharides, general	A03-A01A F01-D10	polymer use in, pipes	A12-H02D1	circuits	L03-H04E4
polymer use in, polyurethane	A05-G01E1 F01-D07	polymer use in, vehicles	A12-T04B	circuits, polymer use in	A12-E07A
polymer use in, polyvinyl chloride	A04-E02E2 F01-D08	Thermionic generator	L03-E05	resistors and pastes	L03-B01C
polymer use in, PVA	A10-E09B F01-D08	Thermistors	L03-B01A2	resistors and pastes, polymer use in	A12-E07C
polymer use in, rayon, regenerated cellulose	A03-A05A F01-D06	Thermo-optical device	L03-G10	Thick moulding compounds (TMC)	A12-S
polymer use in, silicones, siloxanes	A06-A00E1 F01-D09	material	L03-G09D	Thick-and-thin fibres	F01-E02
Textured fibres	A12-S05C F01-E01A F01-E04	Thermochromic dye (general)	E26	Thickener for detergent compositions	D11-B24
Texturing of fibres	A11-B02D F01-H04+	Thermocompression bonding of semiconductor	L04-C17B	food	D03-H01J
Thallium catalysts	N03-G04	Thermocouple	L03-E05A	polymers	A08-M06
Thallium compounds	B05-A01B C05-A01B	Thermoelectric element	L03-E	Thickness control of float glass	L01-D03C
inorganic	E35-F	Thermoelectric generator	L03-E05	Thienomycin	B02-P B02-T B06-D04 C02-P C02-T C06-D04
organic	E05-D	Thermoelectric material	L03-G09T	Thiopin	B07-B02 C07-B02 E07-B02
Thebaine	B04-A04 C04-A04	Thermoforming	A11-B08+	Thiet(an)e	B07-B02 C07-B02 E07-B02
Theobromine	B04-A06 C04-A06	Thermography	A12-L05A G06-F08+	Thiin - see Thiopyran	
Theophylline	B04-A06 C04-A06	Thermomagnetic layers in magnetic recording	L03-B05F	Thiirane	B07-B02 C07-B02 E07-B02
Therapy	K08-E02	other uses	L03-G09M	containing condensants	A01-E07
Thermal		Thermometer	A12-L04 A12-V03D	Thio group formation in polymer	A10-E24
cracking	H04-B01	Thermoplastic elastomer from poly(tetramethylene ether) glycol, diemthyl isophthalate and ethylene glycol	A05-E03 A05-E09 A05-H05	Thioacetal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B
heads (printing)	G05-F02 L03-G10	Thermoplastic reinforced composites	A12-S08E	Thioalcohol	B10-E03 C10-E03 E10-E03+
nuclear reactor processes	K05-A02	Thermorubin	B02-T C02-T	Thioaldehyde	B10-D01 C10-D01 E10-D01
properties of polymers	A09-A01A	Thermoset expanded, foams	A12-S03	Thiocarbonic acid ester	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2
reforming	H04-C01	Thermotropical (liquid crystal property of polymer)	A09-A02A	Thiocarboxylic acid	B10-C01 C10-C01 E10-C01
stabiliser	A08-A04+	Thiadiazole	B07-F03 C07-F03 E07-F03	amide	B10-D02 C10-D02 E10-D02
stability of polymer	A09-A01A	Thiamine	B03-B B15-B01 C03-B C15-B01		
toughening of glass	L01-G03	Thiamorpholine	B07-F02 C07-F02 E07-F02		
Thermal conductivity agents	A08-M09C	Thiexanthene	B06-B02 C06-B02 E06-B02		
carbon-based	A08-M09C1	Thiazine	B07-F02 C07-F02 E07-F02		
Thermal (transfer systems (printing))	A12-W07F1				
Thermal insulation					
ceramics/glass use in, boards	L02-D15B				
ceramics/glass use in, ceramic oxides	L02-G06				
ceramics/glass use in, compositions	L02-D15D				

ester	B10-G01 C10-G01 E10-G01	Thread guides	F01-H07	Thyroid hormone	B04-B02D3 C04-B02D3
Thiocyanate (organic)	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B	Thread rolling of metal	M21-H	Thyroid hormone general	B04-J04 C04-J04
condensants	A01-A A01-E	Thread traversing guides	F01-H03D2	Thyroid receptors	B04-K01X2 C04-K01X2
Thiocyanate inorganic	B05 C05 E32-B	Threads - see also section F	A12-S05+	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
removal from water	D04-B07A	Throat disease	B14-N05B C14-N05B	Thyrotropic hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thioethers	B10-H01 C10-H01 E10-H01	Throat preparation	B12-L04 C12-L04	Thyrotropin (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thioethers, cyclic condensant	A01-E08	Throat preparations	B14-N05 C14-N05	Thyrotropin-releasing hormone	B04-J08 C04-J08
Thioketal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Thrombase	B04-H19 C04-H19	Thyroxine	B10-B02E
Thioketone	B10-F01 C10-F01 E10-F01	Thrombin	B04-B02C3 B04-B04D3 B04-H19 C04-B02C3 C04-B04D3 C04-H19	Tickicide	B12-B04 B14-B04A C12-B04 C14-B04A
Thiokols (polymers)	A05-J05	Thrombinogen	B04-H19 C04-H19	Tights	F04-C01 F04-C02
Thiol condensants	A01-A A01-E	Thrombokinas	B04-H19 C04-H19	Tiles, polymer use	A12-R+
Thiol rubbers	A05-J05	Thrombolytic	B14-F04 C14-F04	Timing layer, photographic	G06-A08
Thiophene	B07-B01 C07-B01 E07-B01	Thromboplastin	B04-H19 C04-H19	Tin	
polymer	A05-J12	Thrombopoietin	B04-H07 C04-H07	alloys	M26-B05
Thiophenol	B10-E01 C10-E01 E10-E01	Thrombosis treatment	B12-H02 B14-F04 C12-H02 C14-F04	compounds as antiseptic, fungicidal or animal repellant	A08-M02
production use	E10-E01P E10-E01U	Thromboxane	B04-H03G C04-H03G	electrodeposition	M11-A06
Thiopyran	B07-B02 C07-B02 E07-B02	agonist/mimetic	B14-L04 C14-L04	production	M25-G23
Thiosulphonic acid or ester	B10-A09B C10-A09B E10-A09B1	antagonist/inhibitor	B14-L08 C14-L08	tetrachloride polymerisation catalyst	A02-A04
Thiosulphuric(ous) acid ester	B10-A09A C10-A09A E10-A09A	Through hole connections formation in semiconductor processing	L04-C13B	Tin catalysts	N03-G03
Thiourea	B10-A13A C10-A13A E10-A13A E10-A13A1 E10-A13A2	formation in semiconductor processing	L04-C13A	Tin compounds	B05-A02 C05-A02
condensant	A01-E03	Throw rugs	F02-B02	inorganic	E35-H
Thiuram disulphide accelerator for crosslinking agents for addition polymers for other polymers	A08-C03 A08-D	Thrush treatment	B12-A02C B14-A04B C12-A02C C14-A04B	inorganic compound pigment	G01-A16
Thixotropic additive	A08-M06	Thulium compounds	B05-A03B C05-A03B	organic	E05-F
Thorium catalysts	N03-A03	catalysts	N03-A02B	organic, with Sn-C bond	E05-F01
Thorium compounds	B05-A04 C05-A04 E34-E03 E05-Q	inorganic	E34-E02B	organic, without Sn-C bond	E05-F02
inorganic		organic	E05-P	Other Sn compound	E05-F02B
organic		Thymidine	B04-B03A C04-B03A	Tires	A12-T01+
		Thyristors	L04-E04	Tissue (cells)	B04-F01 C04-F01
		Thyrocalcitonin	B04-B02D3 B04-J04A C04-B02D3 C04-J04A	preservation, animal	D09-A03A
		Thyroid active agents	B12-G06 B14-N11 C12-G06 C14-N11	preservation, plant	D09-A03B
				Tissue culture	D05-H08
				tissue culture tests	B11-C08E1 C11-C08E1
				Tissue engineering technologies	B11-C04G C11-C04G D09-C01E
				Tissue paper, multiply	F05-A06A2
				Titanate adhesion promoters or coupling agents	A08-M01C

Titanic acid catalysts	N03-B01A	Toluene solvent	A08-S02	antibody, colour	B11-C07A2 C11-C07A2
Titanium alloys	M26-B06	Toluene sulphonic acid-formaldehyde resin	A05-J08	bound to antigen or antibody, enzyme	B11-C07A4 C11-C07A4
Titanium (production)	M25-G24	Toluene, vinyl (co)polymers monomer	A04-C05 A01-D03	bound to antigen or antibody, fluorescent	B11-C07A5 C11-C07A5
Titanium catalysts element	N03-B	Toluenes, burial	A12-W	bound to antigen or antibody, radioactive	B11-C07A3 C11-C07A3
hydroxide	N03-B01A	Toner transfer, electrophotographic	G06-G08B	radioactive (excluding antigen-antibody)	B11-C07B5 C11-C07B5
oxide	N03-B01A	Toners, electrophotographic	A12-L05C2 G06-G05 G06-G06 G06-G05A	Tracing paper	A12-D05
for polymerisation	A02-A06+	dry toning composition	G06-H05	Tracks (e.g. for caterpillar, tank etc.)	A12-T01
Titanium compounds	B05-A03B1 C05-A03B1 E35-K E05-L01 G01-A08	Toning, electrophotographic dry liquid	G06-G05 G06-G06	Tracks, (permanent way for) railways	A12-T
inorganic		Tool handles	A12-H	Tractors	A12-T+
organic		Tools, mechanical	A12-H	Traffic sign paints	A12-T+ G02-A05F
pigment/filler	G01-A08	Tooth fillings polymer use in	D08-A01 A12-V02B	Trains	A12-T+
Titanium compounds adhesion improvers	A08-M01C	Toothbrush	A12-V04B	Tranquilliser	B12-C10 B14-J01B4 C12-C10 C14-J01B4
Titanium halide polymerisation catalyst	A02-A06B	Toothpaste	A12-V04B B12-M02A C12-M02A D08-B08A	Trans-1,4- polybutadiene	A04-B02+
Titanium oxide brightener (inorganic pigment) production	L02-G01E A08-E02 L02-G12A	Toothpowder	B12-M02A C12-M02A D08-B08	Trans-1,4- polyisoprene	A04-B06
Titanium tetrachloride as Friedel-Crafts/Lewis acid catalyst	A02-A04	Tops for containers	A12-P03	Trans-2-butenic acid (co)polymers monomer	A04-F05 A01-D08
Titanium trichloride polymerisation catalyst	A02-A06B	Tote boxes	A12-P06B	Transcription factors	B04-N12 C04-N12
Titurization of glass surfaces	L01-G05	Toughening of glass	L01-G03	Transdermal	B12-M02F C12-M02F
TMC	A12-S	Toughness of polymers	A09-A05A	Transducers	A12-E12 L03-G10
Toadstools extracts	B04-A10A C04-A10A	Toupee	A12-V04 D08-B	Transesterification in polymer modification	A10-E07+
Toadstool extracts	B04-A07F1 C04-A07F1	Towels	F04-D	Transfer compositions	A12-W07F1 A12-W07F1 G05-F01 F03-F27 A11-B11 L01-G01A L01-E07 A12-W07F1
whole	B04-A08D C04-A08D	Towels, sanitary	A12-V03A D09-C02 F04-E04	dyeing/printing moulding of glass of glass, hollow ware sheets	
Tobacco	B04-A07D B04-A08C2 C04-A07D C04-A08C2 B12-J05 B14-M01B C12-J05 C14-M01B	Town gas production	H04-E10	Transfer RNA	B04-E07 C04-E07
addiction treatment	D07-D B12-L10 C12-L10	Town waste fermentation	D05-A04A	Transfer tails	F01-H03D1
artificial	D07-C	Tows	A12-S05+	Transferases	B04-B02C4 B04-L04 C04-B02C4 C04-L04 B14-L01A2 C14-L01A2 D05-A01B2 D05-A02B B12-G01B2 B14-D06 C12-G01B2 C14-D06
fleck treatment	D07-D	Toxic substance removal from soil	B12-N08 C12-J05 C12-N08 C14-T01	agonists	D05-A01B2 D05-A02B B12-G01B2 B14-D06 C12-G01B2 C14-D06
preparation and processing substitutes	A12-W	Toys, models, educational devices	A12-F	enzyme process	D05-C03D
synthetic or reconstituted treatment, chemical features	D07-D	foam use in	A12-S04D	inhibitors	D05-C03D
Tocopherol	B03-H B15-E00 C03-H C15-E00	TPX ®	A04-G10	production by fermentation	D05-H14
Toilet requisites	A12-V04+ D08-B	Trace elements, physiological amelioration of potable water with	D04-A04	Transformed cells	
Toluene condensants	A01-E	Tracers bound to antigen or antibody, chemiluminescent	B11-C07A5 C11-C07A5		
Toluene diisocyanate	E10-A14 E10-A14A E10-A14B A01-E02	bound to antigen or			
condensant					
Toluene diisocyanate crosslinking agent for addition polymers	A08-C09A				
for other polymers	A08-D04A				

Transformer oil	L03-B02D	inorganic	E35-R	Trichuris treatment	B12-B02
Transformers	A12-E08B	organic	E05-Q		B14-B03A
	L03-B02D	Trauma			C12-B02
Transgenic animal	B04-P01+	physical	B14-N17B		C14-B03A
	C04-P01+		C14-N17B	Trickle coolers, direct contact	J08-B01
	D05-H16A	Travel goods	A12-T	Tricresyl phosphate	
plant	B04-A08+	Traversing guides for threads	F01-H03D2	flame retardant	A08-F03
	C04-A08+	Tray, packaging	A12-P06B	plasticiser	A08-P05
	D05-H16B	Tread, tyre design	A12-T01B	Triethyl aluminium catalyst	A02-A07+
Transomatic animal	D05-H16C	Trematode treatment	B12-B06	Trifluoro chloroethylene -	
Transomatic plant	D05-H16D		B14-B03	ethylene copolymer	A04-E10D
Transglutaminase	B04-H19		C12-B06		A04-G08
	C04-H19		C14-B03	Trifluorochloro- ethylene (CTFE)	E10-H02B
Transistors	A12-E07C	Triacetate, cellulose	A03-A02+	(co)polymers	A04-E10D
	L04-E01		B04-C02A3	monomer	A01-D12
CHEMFET	L04-E01F		C04-C02A3	Trifluoronitro- somethane	
for LCDs	L03-G05B6		D06-H	(co)polymers	A04-A04
field effect	L04-E01A	Trialkyl orthophosphate	B05-B01P	monomer	A01-A05
junction field effect type	L04-E01A1		C05-B01P	Trihydroxypropane condensant	A01-E14
metal oxide field effect			E05-G09C		
MIST, MISFET	L04-E01C	Triallyl cyanurate		Triketoimidazolidine polymer	A05-J02
metal oxide		(co)polymers	A04-A03		
semiconductors	L04-E01B	monomer	A01-B03	Trilobal fibres	A12-S05A
metal oxide semiconductors,					F01-E02
field effect	L04-E01B1	Triarylmethane dye	E25-D	Trim strips for	
photo	L04-E01G	Triazine	B07-D13	automobiles	A12-T04
Transition metal (or			C07-D13	furniture	A12-D01
compound) catalyst			E07-D13	Trimellitates plasticisers/	
excluding radical and		asymmetrical	E07-D13C	extenders	A08-P03
Friedel-Crafts		condensant	A01-E01	Trimellitic condensants	A01-E11
(oxy)halides	A02-A06B	symmetrical, production	E07-D13A	Trimethyl dihydroquinoline	
oxides	A02-A06A	symmetrical, use	E07-D13B	polymer	A04-D08
Transition metal (or compound)		Triazole	B07-D13	Trimethylol propane	
polymerisation catalyst			C07-D13	condensant	A01-E14
activator (non-metallic)	A02-A10		E07-D13C	Trimethylol propane	
Transition metal catalysts	N02	Tribromophenol flame		trimethylacrylate	
	N03	retardant for polymer	A08-F04B	(co)polymers	A04-A03
for polymerisation	A02-A06+	Tributyl phosphate		monomer	A01-B03
Transition metal compounds	B05-A03	flame retardant for		Trimming	
	C05-A03	polymer	A08-F03	polymer treatment	A11-A05+
inorganic	E35	plasticiser for polymers	A08-P05	sewing workpiece	F02-F01B2
organic - 1st series	E05-L	Tributyl tin methacrylate		Trimmings	F02-E02
organic - 2nd series	E05-M	(co)polymers	A04-F04+	Triolefinic compounds	
organic - 3rd series	E05-N	monomer	A01-A04	(co)polymers	A04-A03
Translocases	B04-L10		A01-D08	monomer	A01-B03
Transmission (polymer use)		Tricarboxylic condensants		Trioxane	
belts	A12-H01	aliphatic, alicyclic	A01-E12	(co)polymers	A05-H02+
fluids	A12-W02+	aromatic	A01-E11	monomer	A01-E09
Transparency of polymer	A09-A02	Trichlorofluoro- methane		Trithiocarbonate (organic)	B10-A11A
Transplant rejection inhibitor	B14-G02C	volatile blowing agent	A08-B04A		C10-A11A
	C14-G02C	Trichocephalasis treatment	B12-B02		E10-A11A
Transport applications	A12-T+		B14-B03A		E10-A11A1
Transport, reinforced			C12-B02		E10-A11A2
polymer use in	A12-S08D3		C14-B03A	Tritium compounds	B05-A04
Transportation of polymer		Trichogenic	B12-L05		B05-A04B
material	A11-C06		B14-R02		C05-A04
Transporting			C12-L05	organic	C05-A04B
apparatus	B11-C06	Trichomatosis treatment	C14-R02		E05-R
	C11-C06		B12-A02	Tropane	B04-A01
caps and bobbins	F01-H03C		B14-A03D		C04-A01
food	D03-K08		C12-A02	Tropomyosin	B04-H20C3
Transuranic catalysts	N03-A	Trichomonicide	C14-A03D		C04-H20C3
Transuranic compounds	B05-A04		B14-A03D	Trousers	A12-C03
	C05-A04		C14-A03D		F04-C03
				Trucks	A12-T +

Trunks (cases)	A12-T
Trypanocide	B12-B07 B14-A03E C12-B07 C14-A03E
Trypsin	B04-B02C3 B04-L05C C04-B02C3 C04-L05C
Tuberculostat	B12-A04 B14-A01B1 C12-A04 C14-A01B1
Tubes	
(pre)heating of polymer	A11-A02B
bending and expanding	
etc. (metal)	M21-B04
collapsible for packaging	A12-P06C
formation 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
Tubing - see also Hoses	A12-H02+
forming (e.g. bending)	A11-B08C
Tubs (packaging)	A12-P06B
Tubular films	A12-S06+
production	A11-B07A A12-S06A
treatment	A12-S06B
Tufted fabrics	A12-S05J
Tufted product, general	F02-D
Tufting	F02-D
Tumour diagnosis	B12-K04A1 C12-K04A1
Tumour inhibitor	B12-G07 B14-H01 C12-G07 C14-H01
Tumour necrosis factor	B04-H08 C04-H08
Tumour producing	B12-G07 B14-H02 C12-G07 C14-H02
Tungsten	
alloy	M26-B13
production	M25-G28
Tungsten catalysts	N03-C N03-C02
for polymerisation	A02-A06+
Tungsten compounds	B05-A03B C05-A03B
inorganic	E35-Q
inorganic compound pigment	G01-A14
organic	E05-N E05-N03A

Turbulence treatments of fibres	F01-H02
Turf, synthetic	A12-F01A A12-R
Turkey	D02-A03B
Turkey blackhead treatment	C12-B01 C12-G02
Turpentine, obtaining spirits of	G02-B02
Tuyeres, iron and steel	
apparatus	M24-A05D
cabinets	A12-D01
Twisting, fibre, yarns	A11-C05B F01-H01
Typewriter ribbon	A12-D05A F02-E02
Tyre moulding or manufacture	
process	A11-B17
Tyres	A12-T01+
building equipment	A11-B17 A12-T01A
cord and cord adhesives	A12-T01C F04-E01
design	A12-T01B
inner tubes	A12-T01
moulding or manufacture,	
equipment	A12-T01A
retreading, scrap recovery,	
disposal and use of	
old tyres	A11-C03+ A12-T01D
studs	A12-T01B
tread design	A12-T01B
vulcanisation	A11-C02A1

U

Ubiquinones	B04-B02C1 B04-L02 C04-B02C1 C04-L02
UF resins	A05-B03
Ulcer treatment	
dermal	B14-N17H C14-N17H
duodenal	B12-E08 B14-E08 C12-E08 C14-E08
peptic	B12-E08 B14-E08 C12-E08 C14-E08
Ultrafilters	A12-W11A J01-F02B
Ultramarine mineral, pigment	E31-P02
Ultrasonics	
diagnosis	B12-K04C B12-K04C1 C12-K04C C12-K04C1
administration device	B12-M10F C12-M10F
heat sealing or welding	
of polymers	A11-C01+
polymer treatment	A10-E10
Ultrasound diagnosis	B12-K04C1 C12-K04C1
Ultraviolet - see UV	
Umbrella	A12-W
Undecanolactam condensant	A01-E04
Underground storage	
(hydrocarbons)	H03-F
Underlay for carpets	A12-D02
Underwear	F04-C01
Uniaxial orientation process	A11-B02+
Unleavened bread	D01-B02C
Unmodified starch	B04-C02B2 C04-C02B2
Unnotched Izod impact	
strength	A09-A05A
Unreinforced hoses, tubes,	
pipes	A12-H02A
Unsaturated acid esterified	
polymer	A10-E07+
Unsaturated linear	
condensation polymers	A05-D+
Unsaturated polyester in	
polymeric blends	A07-A+
Unsubstituted hydrocarbons	
condensants	A01-E
Upholstery	A12-D01 F04-D03
foam use in	A12-S04D
in vehicles	A12-T04B F04-E03C

Uranium	
enrichment	K05-B04A
production	M25-G25
removal from waste water	D04-B05
	D04-B05A
Uranium catalysts	N03-A
Uranium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Urea	B10-A13B
	C10-A13B
	E10-A13B
	E10-A13B1
	E10-A13B2
condensant	A01-E03
substituted	B10-A13D
	C10-A13D
unsubstituted	B10-A13C
	C10-A13C
Urea sorption (petroleum processing)	H02-B04
Urea-formaldehyde resin	A05-B03
Urethanated polymer	A10-E24
Urethane resins	A05-G+
Urethanisation of polymer by modification	A10-E24
Uric acid	B04-A06
	C04-A06
Uridine	B04-B03A
	C04-B03A
Urine	B04-B04B
	B04-B04B1
	C04-B04B
	C04-B04B1
Urogenital disease treatment	B14-N07
	C14-N07
Uron resin	A10-E08C
Urotropin condensant	A01-E05
Use of residues (in papermaking)	F05-A02C
Used lubricants (recovery and treatment)	H07-H
Usnic acid	B02-U
	C02-U
Utensils, cooking	A12-D03
Uterus active	B12-E09
	B14-N14
	C12-E09
	C14-N14
UV absorber	B12-L08
	B14-R05
	C12-L08
	C14-R05
coloured	E24-E
UV detectors	L04-E05H
UV irradiated/irradiation of polymer for crosslinking	A11-C02B
other modification	A10-E10
UV sensitive materials	A12-L
UV stabiliser for polymers	A08-A03

UV, polymerisation initiated by addition polymerisation	A10-B06
addition polymerisation, grafting	A10-C03C
other (condensation polymerisation)	A10-D+

V

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 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	L03-C03
for packaging	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
inorganic	E35-N
inorganic compound pigment	G01-A14
organic	E05-L03
	E05-L03A

Vanadium oxychloride polymerisation catalyst	A02-A06B	Vasoconstrictor	B12-F06 B14-F02C C12-F06 C14-F02C	Venereal disease treatment	B12-A05 B14-N07C C12-A05 C14-N07C
Vanadium production	M25-G26	Vasodepressor	B12-F07 B14-F02D C12-F07 C14-F02D	Venetian blinds	A12-R02A
Vaporisation of liquefied or solidified gas	J06-B	Vasodilator	B12-F07 B14-F02D C12-F07 C14-F02D	Vermicide	B14-B03 C14-B03 B14-B03 C14-B03 B14-B03 C14-B03 B14-B03D C14-B03D
Vapour		Vasopressin	B04-B02D4 B04-J05B C04-B02D4 C04-J05B	annelides	C14-B03
condensation	J01-A03	Vasopressor	B12-F06 B14-F02C C12-F06 C14-F02C	cestodes	B14-B03
deposited glass coatings	L01-H	Vat dyes for dyeing/printing fibres	F03-F23	distomicide	B14-B03D
filling for discharge tubes or lamps	L03-C02D	Vaults, burial	A12-W	flukes	B14-B03 C14-B03
phase addition		Vectors	D05-H12 D05-H12E D05-H12E	leech	B14-B03 C14-B03
polymerisation	A10-B	cloning	D05-H12E	nematocide	B14-B03A C14-B03A
phase addition		DNA, cosmid, plasmids	B04-E08 C04-E08	platyhelminthes	B14-B03 C14-B03
polymerisation, involving ordered copolymerisation	A10-C+	expression	D05-H12E	tapeworm	B14-B03C C14-B03C
phase etching		transfer	D05-H12E	threadworm	B14-B03A C14-B03A
semiconductors	L04-C07B	viral	B04-F11 D05-H12E	trematodes	B14-B03 C14-B03
separation of dispersed particles from	J01-G	Vee-belts	A12-H01	Versamids®	A05-F04
treatment	J01-E	Vegetable fibres		Vertical magnetic recording	L03-B05G
Vapour coating		dyeing/printing treatment	F03-F03	Vesicular photographic system	G06-C
coating on metallic substrates	M13-F02	treatment, chemical	F01-B02	Vessels for gas, not under pressure	J06-B02
coating on other substrates including silicon substrates	M13-F03	treatment, mechanical	F01-A02	discharge from	J06-B05
post treatment of coatings	M13-F04	Vegetable oils/waxes	B04-B01C1 C04-B01C1	filling	J06-B01 J06-B04 J06-B03
pretreatment of substrates	M13-F01	Vegetables, machine for		Veterinary composition	
substrates	M13-F02	cutting	D03-J09	Veterinary medicine,	
Vapour condenser	J08-A	peeling	D03-J07	polymers used in	A12-V+
auxiliary system	J08-A05	washing	D03-J08	(meth)acrylate (co)polymer	A04-F06E5
direct contact	J08-A02	Vegetables, preservation	D03-A04	cellulose ether	A03-A04A1
indirect contact	J08-A01	Vegetable products	D03-N	polyamide	A05-F01E3
Vapour deposition		Vehicle	A12-T04E	polyethylene	A04-G02E3
apparatus for semiconductor processing	L04-D01	safety belts	F04-E03B	polypropylene	A04-G03E1
for semiconductor layer growth	L04-C01A	Vehicles	A12-T+	PVA	A10-E09B2
of glass (layers)	L01-F06	bumpers/fenders	A12-T04D	silicone	A06-A00E3
Variable		coatings	A12-T05	Veterinary only	B12-L09 B14-S12 C12-L09 C14-S12
capacitor	L03-B03D	crash pads	A12-T04B	Vibration dampers	A12-H09
denier fibres	F01-E02	electro (in)organic material applications	L03-H05	Vibration, ultrasonic (polymer modification)	A10-E10
resistors	L03-B01A	fascia	A12-T04B	Vibrio	B04-F10A9 C04-F10A9
Variable denier yarns	F01-E08	glass applications	L01-L02	Video discs	A12-W01A
Varicose vein treatment	B12-J04 B14-E04 C12-J04 C14-E04	insulation (acoustic + thermal)	A12-T04B	magnetic	A12-E08A2 A12-W01A A12-L03C A12-W01A
Varistors	L03-B01A1	paints	A12-T05	optical	A12-L03C A12-W01A
Varnishes		parts, accessories	A12-T04+	Video magnetic tape	A12-E08A1
additives for	G02-A03+	seat fabrics	F04-E03C	Vinegar	D05-G
inorganic film formers		shells	A12-T02	Vinyl acetal polymers	A10-E02
derived	G02-A01+	upholstery	A12-T04B F04-E03C		
organic film formers (polymers) derived	A12-B+ G02-A02+ G02-B+	Veneer	A12-A04+		
Vascular endothelial growth factor	B04-H06M C04-H06M				
Vascular tumour treatment	B12-J04 B14-E04 C12-J04 C14-E04				
Vaseline	B04-B01C3 C04-B01C3				

Vinyl acetamide monomer		(co)polymers	A04-E03+	Vinyl fluoride (see also	
(co)polymers	A04-D	(co)polymers, preparation	A04-E03A	Vinyl halide)	E10-H02B
monomer	A01-D07	homopolymer	A04-E02+		E10-H03A3
Vinyl acetate	E10-G02+	monomer	A01-D12		E10-H04A3
(co)polymer (excluding		polymer adhesives	A12-A05B3	(co)polymers	A04-E10A
ethylene)	A04-F09		G03-B02D2	monomer	A01-D12
(co)polymer with ethylene	A04-G07	polymer coatings	A04-E02E2	Vinyl fluorobenzenes	
homopolymer	A04-F08		A12-B+	(co)polymers	A04-C
monomer	A01-D10A	polymer in polymeric blends	G02-A+	monomer	A01-D02
polymer adhesives	A12-A05B3		A07-A+	Vinyl halide (excluding Cl,F)	
	G03-B02D2	polymer paint, varnish/ lacquer	A04-E02E2	(co)polymers	A04-E05
polymer coatings on metal	A12-B04E		A12-B01F	homopolymer	A04-E04
polymer coatings/paints	A12-B01F		G02-A02D2	monomer	A01-D12
	G02-A02D3	production	E10-H03C3	Vinyl halide based	
production	E10-G02D2	use	E10-H04C3	adhesives/binders	A12-A05B3
use	E10-G02H2B				G03-B02D2
Vinyl acetylene		Vinyl chlorobenzenes		coatings	A12-B1F
(co)polymers	A04-A01	(co)polymers	A04-C	paint varnish lacquer	G02-A02D2
monomer	A01-B01	monomer	A01-D02		A12-B1F
Vinyl alcohol polymer - see		Vinyl cyanide	B10-A15		G02-A02D2
Polyvinyl alcohol			C10-A15	Vinyl halobenzenes	
Vinyl aromatics			E10-A15	(co)polymers	A04-C
(co)polymers	A04-C+	(co)polymers	A04-D03+	monomer	A01-D02
monomer	A01-D02	homopolymer	A04-D02+	Vinyl heterocyclics	
	A01-D03	monomer	A01-D04	containing N, polymer	A04-D+
Vinyl benzene		Vinyl cyclohexane (co)polymer	A04-G	Vinyl iodide (see also Vinyl	
homopolymer	A04-C02+	Vinyl cyclohexene diepoxide	A05-A05	halide)	E10-H02D
monomer	A01-D03	Vinyl ester resins	A10-E07B		E10-H03D2
with acrylonitrile +		Vinyl ester, carboxylic			E10-H04D2
butadiene	A04-C03	(monoolefinic)		Vinyl iodobenzenes	
with butadiene	A04-B03+	(co)polymers	A04-F+	(co)polymers	A04-C
with other monomers	A04-C04+	adhesives/binders	A12-A05B3	monomer	A01-D02
Vinyl benzene sulphonic			G03-B02D2	Vinyl isobutyl ether	
acid monomer	A01-D02	coatings	A12-B01F	(co)polymers	A04-F11
Vinyl benzoate monomer	A01-D02		G02-A02D3	monomer	A01-D11
Vinyl bromide (see also		monomer	A01-D10A	Vinyl isocyanate	
Vinyl halide)	E10-H02D	Vinyl esters of (meth)acrylic acid		(co)polymers	A04-D
	E10-H03D2	Production	E10-G02D1	monomer	A01-D07
	E10-H04D2	Use	E10-G02H2A	Vinyl ketals, poly	A10-E02
Vinyl bromide/iodide		Vinyl esters of phosphorus		Vinyl ketones (monoolefinic)	
(co)polymers	A04-E05	acids (monoolefinic)		(co)polymers	A04-F03
homopolymer	A04-E04	(co)polymers	A04-A	monomer	A01-D05
monomer	A01-D12	monomer	A01	Vinyl lactam	
Vinyl bromobenzenes			A01-A02	(co)polymers	A04-D05
(co)polymers	A04-C	Vinyl esters of silicon acids		monomer	A01-D01
monomer	A01-D02	(co)polymers	A04-A	Vinyl methyl ether	
Vinyl butyral, poly-	A10-E02	monomer	A01-D	(co)polymers	A04-F11
Vinyl butyrate		Vinyl esters of sulphur acids	A01-A03	monomer	A01-D11
(co)polymers	A04-F10	(co)polymers	A04-A	Vinyl methyl ketone	
monomer	A01-D10A	monomer	A01	(co)polymers	A04-F03
Vinyl caprolactams			A01-A	monomer	A01-D05
(co)polymers	A04-D05	Vinyl ethers (monoolefinic)		Vinyl naphthalenes	
monomer	A01-D01	(co)polymers	A04-F11	(co)polymers	A04-C
Vinyl carbazoles		monomer	A01-D11	monomer	A01-D03
(co)polymers	A04-D06	Vinyl ferrocene		Vinyl phenol (monoolefinic)	
monomer	A01-D01	(co)polymers	A04-A	(co)polymers	A04-C
Vinyl carbinol		monomer	A01	monomer	A01-D02
(co)polymers	A04-F		A01-A04	Vinyl phosphonate	
monomer	A01-D09	Vinyl fibres		(monoolefinic)	
Vinyl carboxylate - see		dyeing/printing	F03-F11	(co)polymers	A04-A
Vinyl ester		production, chemical		monomer	A01
Vinyl carboxylic esters		features in	F01-D08		A01-A02
(monoolefinic) - see		Vinyl floor covering	A12-R03	Vinyl phthalimides	
Vinyl ester			F04-B02	(monoolefinic)	
Vinyl chloride	E10-H02J			(co)polymers	A04-D08

monomer	A01-D01	monomer	A01-D12	Vitreous enamelling	L01-H06
Vinyl polymer polyol		Vinylidene fluoride -		Volatile blowing	
polyurethane	A05-G	chlorotrifluoro- ethylene	A04-E10B	agent	A08-B04+
Vinyl propionate		(co)polymers	A04-E10D	foaming	A11-B06+
(co)polymers	A04-F10	Vinylidene halides excluding		Volatile solvent vapour	
monomer	A01-D10A	fluorides (monoolefinic)		recovery from gases	J01-E01
Vinyl pyridines (monoolefinic)		(co)polymers	A04-E07	Vortex flow apparatus	J01-L02
(co)polymers	A04-D07	homopolymers	A04-E06	Vulcanisation additive	A08-C+
monomer	A01-D01	monomer	A01-D12		A08-D+
Vinyl pyrrolidones		Vinylidene iodide	E10-H02D	Vulcanisation process, general	
(monoolefinic)			E10-H03D2		
(co)polymers	A04-D05A		E10-H04D2		A11-C02+
monomer	A01-D01	(co)polymers	A04-E07	for rubber	A11-C02A
Vinyl silane (monoolefinic)		homopolymer	A04-E06	of tyres	A11-C02A1
(co)polymers	A04-A	monomer	A01-D12	Vulcanised polymer	A11-C02+
grafted polyethylene	A04-A	Vinylon ®	A10-E09+	Vulcanising agent - see	
	A04-G08	Virucide	B12-A06	crosslinking	
monomer	A01		B14-A02		
	A01-A03		C12-A06		
			C14-A02		
Vinyl silicate (monoolefinic)		Viruses	B04-B02B4		
(co)polymers	A04-A		B04-F11		
monomer	A01		C04-B02B4		
	A01-A03		C04-F11		
Vinyl stearate					
(co)polymers	A04-F10	newly discovered, testing			
monomer	A01-D10A	of, isolation of,			
		identification of and			
Vinyl sulphonate (monoolefinic)		detection of			
(co)polymers	A04-A	recombinant	D05-H06A		
monomer	A01		D05-H12F		
	A01-A	Viscose fibres dyeing/printing	F03-F09		
		Viscosity depressants			
Vinyl sulphone (monoolefinic)		(modifiers) for polymers	A08-M06		
(co)polymers	A04-A	Viscosity index (VI) improver			
monomer	A01	(lubricant additive)			
	A01-A	polymer use in	H07-G06		
			A12-W02A		
Vinyl thioethers		Vitamins	B15		
(co)polymers	A04-A		C15		
monomer	A01		E03		
Vinyl toluene		A	B15-A00+		
(co)polymers	A04-C05		C15-A00+		
monomer	A01-D03	B1	B15-B01+		
			C15-B01+		
Vinyl trichlorosilane		B12	B15-B12+		
adhesion improver	A08-M01D		C15-B12+		
Vinyl triethoxysilane		B2	B15-B02+		
adhesion improver	A08-M01D		C15-B02+		
Vinylene carbonate		B6	B15-B06+		
(monoolefinic) (co)polymer	A04-F		C15-B06+		
Vinylidene bromide		C	B15-C00+		
	E10-H02D		C15-C00+		
	E10-H03D2	D	B15-D00+		
	E10-H04D2		C15-D00+		
(co)polymers	A04-E07	E	B15-E00+		
homopolymer	A04-E06		C15-E00+		
monomer	A01-D12	K	B15-K00+		
Vinylidene chloride			C15-K00+		
	E10-H02G	P	B15-P00+		
	E10-H03C3		C15-P00+		
	E10-H04C3	Vitamins general/other	B15-Z		
(co)polymers	A04-E07		C15-Z		
homopolymer	A04-E06	Vitamins, biosynthesis	D05-C10		
monomer	A01-D12	Vitamin preparation	D03-H01T2C		
Vinylidene cyanide		Viton ®	A04-E10B		
(co)polymers	E10-A15A		A04-E10D		
monomer	A04-D	Vitreous coating of metal	M13-J		
	A01-D04	post-treatment	M13-J03		
Vinylidene fluoride		pre-treatment of surface	M13-J01		
	E10-H02B				
	E10-H03A3				
	E10-H04A3				
(co)polymers	A04-E10B				

W

W/O dispersions of polymers	A07-B+	by wet scrubbing	J01-E02A J01-G06 J01-E02D	sterilisation	D04-A02
Waddings	F02-C01	catalytic		tracking stabiliser for polymer	A08-A
Waffles	D01-B02F	removal of nitrogen oxides		transport	A12-T
Waist bands for garments	F04-C04	removal of nitrogen oxides, catalytic	E31-H01	treatment general	A12-W11J D04-A D04-B
Wall panels, cementitious	L02-D04D	removal of nitrogen oxides, other	E31-H02	Water crosslinking agent for addition polymers	A08-C10
Wallpaper (polymer use)	A12-R07	removal of sulphur compounds	E31-F01 J01-E02H5	for other polymers	A08-D06
Walls		using ozone		Water purification by active carbon treatment	D04-A01F D04-A01F2 D04-A01F D04-A01F3
coating compositions for wall coverings (polymer use)	G02-A05F	with membranes or ion exchangers	J01-E02C	adsorption	D04-A01K D04-A01J
	A12-R07	with solid absorbent	J01-E02B	aeration/oxidation	D04-A01G
Warfare	A12-T03D+	Waste water		Biological process	D04-A01M
Warheads	K03-A02	containment of	D04-A05	chemical method (e.g. ion-exchange)	D04-A01N D04-A01B
Warp		Waste water treatment in	D04-A D04-B	distillation	D04-A01F D04-A01F1 J01-F04X1 D04-A01L
dyeing/printing	F03-F29	metallurgy for non-ferrous metal extraction	M25-E01	electrochemical process	D04-A01C D04-A01C D04-A01C
knitting	F02-B03A	paper making	F05-A02C	environmentally-friendly	D04-A01P1 D04-A01P D04-A01K1
Warping (textiles)	F02-A01	semiconductor manufacture	L04-X02	water processing	D04-A01K2 D04-A01P2 D04-A01B D04-A01D D04-A01G
Wart treatment	B12-A07 B14-N17 C12-A07 C14-N17	textile processes	F03-E	extraction	B12-M11L C12-M11L
Wash basins	A12-R02	Watches (polymer use)	A12-W	filtration	A12-E
Wash-wear treated fabrics		Water	B05-C08 C05-C08 E31-A	flotation	L03-G02
non-resinous	A12-S05R F03-C04	absorbent material for dressings	D09-C06	freezing	G06-D06B
resinous	A12-G02 F03-C04	adding scale preventative or remover	D04-A03	freezing	A12-S B04-B01C C04-B01C
Washers	A12-H08	adding sequestering agent based lacquer or paint	D04-A03 A12-B01A G02-A+	irradiation	A08-P08 D10-B01 B04-B01A C04-B01A
Washing machine for textiles	F03-J01	bed or mattress	A12-D01	other chemical methods	H08-A G02-C B04-B01C C04-B01C
Washing rinsing, drying		cooled reactor	K05-A02B	other methods	
semiconductors	L04-C09	flooding of oil wells	A12-W10B H01-D06 D04-C	oxidation with ozone	
Waste		gas impregnated		oxidation/aeration with other	
disposal, other than by incineration	J09-C01	in oil (W/O) polymer dispersion	A07-B+	other physical methods	
disposal, by incineration	J09-C02	jet weaving	F02-A04B	precipitation	
encapsulation in glass	L01-F	penetration into concrete		reverse osmosis	
gas treatment in semiconductor processing	L04-X02	inhibiting	L02-D14Q	using active carbon	
heat of furnace utilisation	J09-B03	polymers used in potable	A12-B	Water soluble tablet	
incinerator	J09-C	potable, physiological		Wave guide	
organic, fermentation	D05-A04A J09-C01B	amelioration of	D04-A04 L04-X01	electric	A12-E
paper, working up	F05-A02B	production of ultrapure	A08-S08	Wave guides	
polymer recovery	A11-C03+	proofing agent for polymer	G02-A05F	(electro)photographic	
product cement	L02-C03	proofing concrete, masonry		production of	
radioactive, treatment	K07-B	proofing, textile finishes, non-resinous	A12-S05R F03-C02A	Waxes	
recycling	J09-C01A	proofing, textile finishes, resinous	A12-G03 F03-C02A	as extenders or plasticiser	
removal from cores	F01-H03E	purification	D04-A01 D04-A01H	fatty acid preparation from halogenated	
storage in landfills	J10-A	purity measurement		petroleum products	
treatment in polymer processing	A11-C07	reducing additives for concrete manufacture	L02-D14D	ski	
water treatment in semiconductor processing	L04-X03	repellent material for dressings	D09-C05	unhalogenated	
water recycling	D04-A06	repellent, fibre/fabric treatment, non-resinous	A12-S05R F03-C02A	Weapons	
Waste gas treatment	J01-E02	repellent, fibre/fabric treatment, resinous	A12-G03 F03-C02A	Wear-resistant ceramic oxide	
by biological methods	J01-E02H3	skiing	A12-F01+	Wearing apparel	
by centrifugal methods	J01-E02H2	soluble polyelectrolytes	A12-M+		
by combustion	J01-E02H4			Weavers' tools	
by molecular sieve	J01-E02B1			Weaving	
by metal-organic framework	J01-E02B2			auxiliary apparatus	
				looms	

looms, conventional	F02-A04A	completion	H01-C	Wetting agent	A08-S05
looms, shuttleless	F02-A04B	consolidation	A12-W10C		B12-M09
Webbing	A12-P07		H01-C09		C12-M09
	F02-E02	control equipment	H01-B03B	Wheel (polymer use)	
Webs (fabric), handling	F03-K01		H01-B03B3	fly	A12-H
Weed control agents		coring	H01-B05B	grinding	A12-A03
selective	B12-P06	corrosion inhibition	H01-E02	vehicle	A12-T04+
	C12-P06	depleted fields	H01-R		
	C14-V02	directional/turbo drilling	H01-B05A	Whey and curds separation	D03-B02
		downhole equipment	H01-B03C	Whisker	E12-A12
total and general	B12-P05	effluent treatment	H01-E	Whiskers fillers/reinforcing	
	C12-P05	fishing tools	H01-B07	agents	A08-R09
	C14-V01	flooding	A12-W10B	White carbon filler	A08-R06A
Weed control compositions		fracturing	A12-W10B	Whitening agents	A08-E+
use of polymers	A12-W04C		H01-C03		E24-A
Weft		lining	A12-W10C	for skin	D08-B01D1
gripper looms	F02-A04B		H01-C07	Whiteware	L02-G03
knitting	F02-B03B	killing	H01-H		
Weight increasing	B12-J01	logging	H01-A02	Whole animal, general and	
	B14-E11	logging while drilling	H01-B03B1	other	B04-P01
	C12-J01	measuring	H01-B03B2		C04-P01
	C14-E11	other	H01-X		
		packers	H01-C01A	Wide films	A12-S06+
Weight reducing	B12-J02	perforating	H01-C05	Wigs	D08-B
	B14-E12	pipes	H01-P		F04-G
	C12-J02	plugging	A12-W10C	non-transplanted	A12-V04
	C14-E12		H01-C02	transplanted	A12-V02
		production using bacteria	H01-D13		A12-V04
Welding	A11-C01+	scale inhibition	H01-E05		
aluminothermic	M23-E02	servicing	H01-C10	Winding	
ancillary equipment	M23-H	steam flooding	H01-D06B	fabric web	F03-K01
backing strips	M23-J	stimulation	A12-W10B	paper web	F05-A05
electric	M23-D		H01-C	plastics products excluding	
electric, arc	M23-D01	subsurface equipment	H01-B03C	fibres/fabrics	A11-C06
electric, electron beam	M23-D04	testing	H01-B08	polymeric fibres, yarns	A11-C05B
electric, electroslag welding	M23-D07		H01-C11	strips to form tube	A11-B08+
electric, induction heating	M23-D03		H01-D12	yarns	F01-H03+
electric, laser beam	M23-D05	thermal production	H01-D08	Window cleaning agent	D11-D01C
electric, plasma arc	M23-D01	transmission of		Windows	
electric, resistance	M23-D02	data, power	H01-B03D	frames	A12-R02A
electric, spark erosion	M23-D06	tubing	H01-C01	glazing	A12-R04
electrodes	M23-F	valves	H01-B03B3	seals	A12-R02A
explosive	M23-E02	waterflooding	H01-D06	Windscreens	A12-T04A
flame	M23-B	water control compositions	H01-C12	Wine	D05-E
flame, burners, gas		water control methods	H01-D14	Wipes, multiply	F05-A06A2
supply, torches	M23-B01	water treatment	H01-E04	Wire - see also Electrical	E12-A12
flux holders	M23-J	Wet end of papermaking		Wire insulation (electrical)	A12-E02+
fluxes	M23-F	machine	F05-A04A	compositions	A12-E02A
flux removers	D11-D01B2	Wet extraction of metal		fabrication, treatment	A12-E02B
hard surface	M23-E03	compounds	M25-B	Wire insulation removal	A11-C
in semiconductor		ion exchange	M25-B03	Wire mills (metal rolling)	M21-A03A
manufacture	L04-C17C	precipitation as an		Wire reinforced glass sheet	
inspection and control		insoluble compound	M25-B01	manufacture	L01-D04
methods	M23-G	reduction with hydrogen		Wire working	M21-F
jigs and holders	M23-H	or metal	M25-B02	Wire, coating composition for	A12-E02+
joint design	M23-J	solvent extraction	M25-B04		G02-A05A
of contacts on electrical		Wet laying of non-woven			
components	L03-A01B6	fabrics	F02-C02E	Wolfram - see Tungsten	
of polymers	A11-C01+	Wet method for extracting		Wollastonite filter/reinforcing	
pre- and post-treatment	M23-G	non-ferrous metal	M25-B	agent	A08-R06B
rods	M23-F	compounds from ore	J01-E02A	Wood	B04-A07D3
ultrasonic	M23-E04	Wet scrubbing of waste gases	A11-B15C		B04-A09G
Wellhead equipment	H01-C06		F01-C08C		C04-A07D3
Wells (oil)	A12-W10+	Wet spinning			C04-A09G
blowout preventers	H01-C06A			polymer coating on	A12-B09
brine flooding	H01-D06A	Wet treatment of fabrics,	F03-B	preservation/ treatment	F05-B
carbon dioxide flooding	H01-D06C	apparatus (general)	F03-C01	synthetic	A12-D01
casing	H01-C01		F03-F01		A12-R01
cementing	A12-W10C				
	H01-C02				
chemical production	H01-D09				

Wood flour/powder filler/ reinforcing agent	A08-R07	X		Xylenols	E10-E02B E10-E02B1 E10-E02E E10-E02E1
Wood shavings	B04-A07D3 B04-A09G C04-A07D3 C04-A09G				
Wood, coatings on	A12-B09 F05-B	X-ray		Xylok resins	A05-J
Wool	A03-C01 B04-B04E C04-B04E	anodes	L03-C01	Xylylene glycol condensant	E10-E04J1 A01-E14
chemical treatment of	F01-B01	contrast media	B12-K07 C12-K07		
dying/printing	F03-F02	crystallography	B11-C08G1 C11-C08G1		
mechanical treatment of	F01-A01	emission electrodes	L03-C02A		
Working fluid for heat engine	G04-B01	films	G06-D01		
Working of		measurement	K08-A		
ferrous metal	M24-D01	medical equipment	A12-V03+		
Working sheet metal	M21-E	papers	G06-D01		
bending, corrugating, flanging, straightening	M21-E01	photographic equipment	A12-L+		
deep drawing, spinning, stretch forming	M21-E03	photographic materials	G06-D01		
punching, stamping and pressing	M21-E02	radiotherapy	K09-B02		
Working up		screens (intensifying)	G06-A09 G06-D01		
flue dust, sludge, slurry or waste water - non ferrous metals	M25-E01 F05-A02B	techniques	K08-E		
waste paper		techniques, using			
Wound dressings	A12-V03A D09-C04B F04-E04	electro(in)organic material	L03-H04C		
Wound treatment	B12-A07 B14-N17B C12-A07 C14-N17B	therapy or treatment	K08-E02		
Woven fabrics	A12-S05F F02-A03	tubes(structural parts)	L03-C03		
Wrapper, wrapping films	A12-P+ A12-P01A	Xanflood ®	A03-A+		
Writing devices	A12-D05B G02-A04+	Xanthan gum	A03-A+ B04-C02F C04-C02F		
Wrought iron production	M24-B01C	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 E31-J E05-K		
		inorganic			
		organic			
		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+		

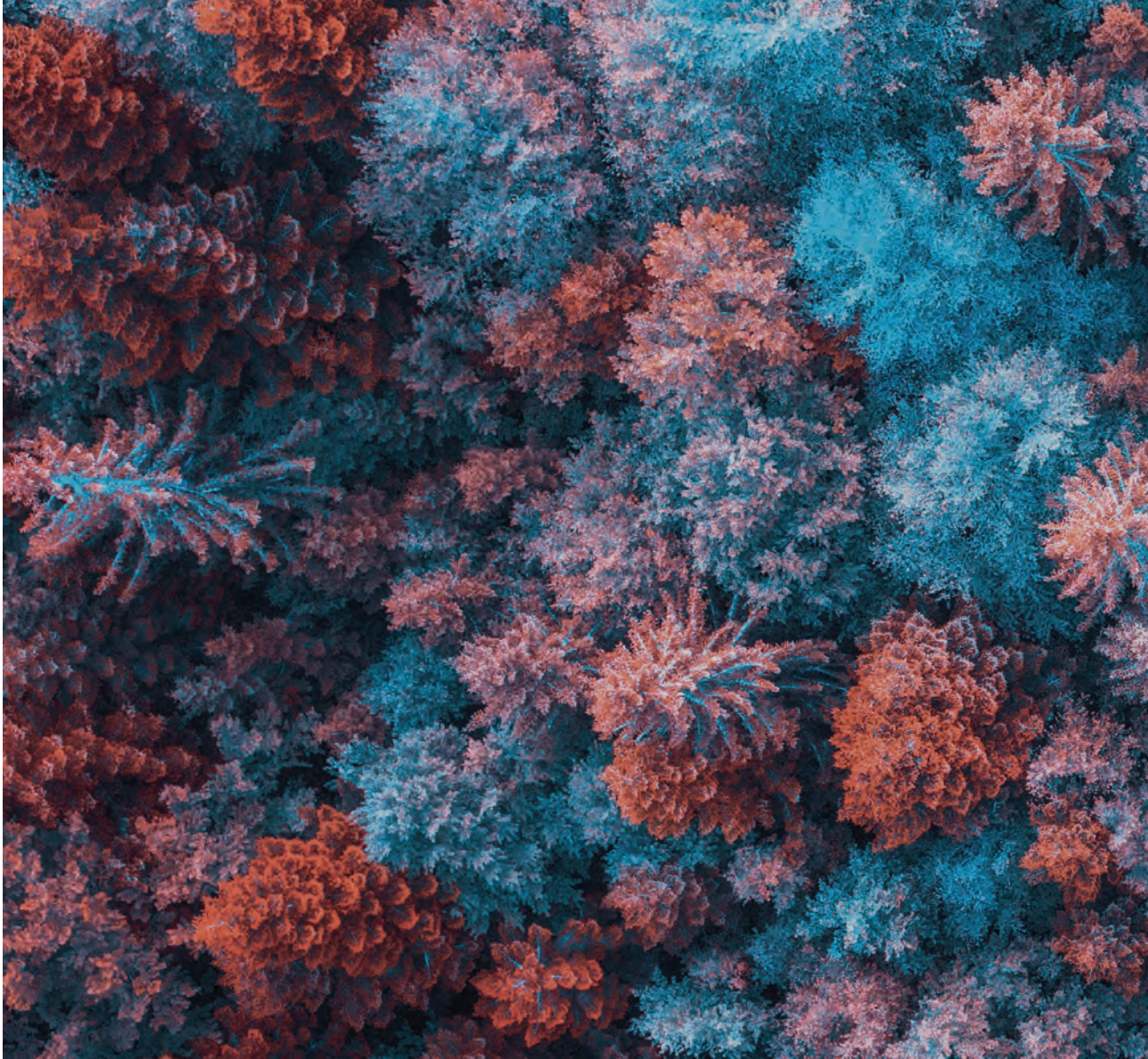
Y

Yarn cleaners	F01-H09
Yarn processes	A11-C05+
blending	F01-F
cabling	F01-H01
carding, combing	F01-F01
crimping, curling of fibres	A11-B02D
drafting	F01-H04
entangling	F01-F02
finishing	F01-H02
heat setting	F01-H06+
increasing adhesion to bulk materials	A11-B02C
mechanical finishing	F01-H05
open-end spinning	F01-H06B
opening	F01-H+
ring spinning	F01-G05
ringless spinning	F01-F03
sizing	F01-G01
spinning	F01-G02
spinning, automated systems	F01-H06A
testing	A11-B15+
winding	F01-G+
Yarns of polymers	F01-G04
Yeast	F01-H
C04-F09	A11-C05B
D05-B04	F01-H03+
Yeast production	A12-S05+
Yield strength	B04-F09
M24-F07	C04-F09
M29-F07	
Yoghurt	D03-B14
Yohimbane	B04-A05
C04-A05	
Young's Modulus	A09-A05
Ytterbium compounds	B05-A03B
C05-A03B	
catalysts	N03-A02B
inorganic	E34-E02B
organic	E05-P
Yttrium catalysts	N03-A01
for polymerisation	A02-A06+
Yttrium compounds	B05-A03B
C05-A03B	
inorganic	E34-E01
organic	E05-M
E05-M03D	
Yttrium iron garnets,	
yttrium aluminium garnets,	
YIG, YAG	L03-B02B3
Yttrium oxide	L02-G01C1
production	L02-G12D1

Z

Zein	A03-C01
B04-B04A4	
B04-N01	
C04-B04A4	
C04-N01	
Zeolites	E31-P02
L02-G01A	
Detergent use	D11-B11
D11-B11A	
Molecular sieve use	J01-E02B1
J01-E03C1	
Zeolite catalysts	
aluminium free	N06-B02
high silica	N06-B02
support	A02-D
with alkali(ne earth)	
metals only	N06-A
with metals, not	
alkali(ne earth)	N06-B
with metals, not	
alkaline(ne earth)	N06-B01
Zeolite filler/reinforcing agents	A08-R06B
Zero-twist process	F01-H02
Ziegler(-Natta) catalysts	A02-A06+
Zinc	
alloys	M26-B07
catalysts	N03-F01
electrodeposition	M11-A04
production	M25-G27
Zinc borate flame retardant	A08-F
Zinc carboxylates	E05-L03C
Zinc compounds	B05-A03A4
C05-A03A4	
carboxylates	E05-L03D
halide	E35-C03
inorganic (other than halide,	
hydroxide, oxide, sulfate)	E35-C04
organic	E05-L03
organic, excluding	
pigments/fillers	G01-A02
Zinc dialkyldithio-carbamate	
accelerators for cross-	
linking agents	A08-C03
A08-D05	
Zinc finger proteins	B04-N11
C04-N11	
D05-H17A7	
D05-H17B7	
Zinc hydroxide	
production	E35-C01
use	E35-C02
Zinc oxide	E35-C
L02-G01F	
L04-A03D	
activators for crosslinking	
agents	A08-C02
A08-D05	
electrodes for batteries	L03-E01B6
glass composition	L01-A03C2
photoconductor	G06-F07A
pigment	A08-E02
G01-A02	

production	E35-C01
L02-G12C	
use	E35-C02
Zinc selenide	L03-A03B
Zinc stearate lubricant for	
polymer	A08-M03+
Zinc sulfate	E35-C03
Zinc sulphide	E35-C
L03-A03A	
pigment	A08-E02
G01-A02	
Zip ® fasteners	A12-C03
F04-C04	
sewing of	F02-F01A1
Zirconium	
alloys	M26-B06
production	M25-G28
Zirconium catalysts	N03-B
N03-B02	
for polymerisation	A02-A06+
Zirconium compounds	B05-A03B
C05-A03B	
inorganic	E35-L
organic	E05-M
E05-M01	
Zirconium oxide	L02-G01D
production	L02-G12B
Zone refining in	
semiconductor crystals	L04-B02
Zymogen	B04-B02C
B04-L09	
C04-B02C	
C04-L09	



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