
DERWENT
WORLD PATENTS INDEX®

Polymer Indexing Hierarchy

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Introduction

The Polymer Indexing system is hierarchical in structure and divided into facets. There are two basic sections to the Code – the Structural section and the Non-structural section.

The Structural section contains all the chemical information and is made up of the following facets:- Polymer Formers, Polymer Types, Natural Polymers, Modified Polymers, Chemicals and Chemical Aspects.

The Non-structural section contains all the non-chemical information and is made up of the following facets:- Novelty Descriptors, Universal Terms, Polymer Descriptors, Shape & Form, Additives, Catalysts, Chemical Processes, Physical Operations, Equipment, Properties and Applications.

Within each facet there are main terms or Broader terms (BT), with sub-divisions or Narrower terms (NT); there are also Used For terms (UF) to indicate synonyms and See Also terms (SA), giving other related terms which may be of interest. Some of the terms have Scope notes, which explain the use and limitation of the term; these are found directly below the concept and appear within “ “. The codes for all the primary terms are situated to the left of the concept.

Enhancements

There have been enhancements to the system in 2004 and 1996. New concepts introduced in 2004 are indicated by (04) after the concept and likewise (96) for those introduced in 1996. For searching the new concepts using Polymer Indexing prior to their introduction, use the higher term in the hierarchy or the ‘others’ term if available. For example, the specific term Polypropylene terephthalate was introduced in 2004, prior to that it could be searched as the higher term Saturated polyester (P1978). However, Saturated polyester was only introduced in 1996 and so prior to that the term Polyester should be searched. Another example is n-Propyl acrylate which could be searched as Acrylic acid esters monoolefinic (G0340) or Acrylic acid esters monoolefinic, other (G0373) prior to 9601.

If the new concept is a main term and thus not in a hierarchy, such as Dendrimer, no codes exist for searching prior to 2004.

Other Polymer Indexing manuals available:-

Polymer Indexing Thesaurus – contains alphabetical listing of all terms and synonyms with their codes.

Polymer Indexing Reference Manual – contains Polymer Indexing Code List, Polymer Indexing Molecular Formula List and Polymer Indexing Chemical Aspects Graphical Definitions.

Polymer Indexing System Description – provides a detailed description of the Enhanced Polymer Index.

CPI Plasdoc Coding Systems - provides details of the hierarchical listing by subject area of all the Plasdoc codes from the time period 1966 -1994. Also included is a numerical listing of all the Plasdoc Codes, both Multipunch (AM) and Key Serial (KS) codes.

Polymer Descriptors

This facet contains functional concepts used to define the polymer formers. Throughout the hierarchies we have used the term polymer former to cover both monomers and condensants.

The format of the codes used in this facet is Hnnnn.

These terms have been arranged hierarchically where possible, with the Narrower terms (NT) autoposting the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Copolymer which has been coded should be searched using H0011-R. Searching H0011 will retrieve all references - indexed and autoposted. For a complete listing of all autoposted codes, see Polymer Indexing Reference Manual.

The homopolymer and copolymer terms are applicable to all types of polymer. The homopolymer term is applied to all polymers made from a single polymer former, for example – polycaprolactone, polyvinylchloride, polyaniline. The terms in the copolymer hierarchy are applied to any polymer made from two or more polymer formers. The binary copolymer term is applied to all polymers made from two polymer formers, for example – phenol-formaldehyde resin, ethylene-vinyl acetate copolymer. The ternary or higher copolymer term is applied to polymers formed from 3 or more polymer formers, for example – EPDM, polyethylene terephthalate-isophthalate. Within this hierarchy there are concepts for defining types of block copolymer, graft copolymer and grafting polymer former, star, alternating and random copolymer.

The Oligomer term will be applied to alkylene oxides containing 5 - 9 repeat units and to other polymers containing 2 - 9 repeat units.

There are two terms used for handling macromers - Macromer as modified polymer and Macromer as polymer former.

The concept for Minor component is only applicable to polymer formers within a copolymer.

The Modifying agent term is used when a specific modifying agent is used to modify a polymer; the term Atom(s) incorporated in polymer by modification is used to indicate the changed chemical structure of the modified polymer.

This facet also contains terms for Thermoplastic and Thermosetting. These terms will be applied when this is the only information available about the polymer or resin or when it is important. They will not be applied everytime a polymer is indexed.

Each polymeric component will have either a Polymer Descriptors or a Polymer Types code applied.

Polymer Descriptors

- H0000 Homopolymer**
 "Polymer formed from a single polymer former"
- H0011 Copolymer**
 "Polymer formed from >1 polymer former"
- H0022 NT Binary copolymer
 "Polymer formed from 2 polymer formers"
- H0033 NT Ternary or higher copolymer
 "Polymer formed from 3 or more polymer formers"
- H0044 NT Block copolymer
 UF Ordered condensate
- H0055 NT A-B type block copolymer
- H0066 NT A-B-A type block copolymer
- H0077 NT Block copolymer type, other
- H0088 NT Graft copolymer
- H0099 NT Star polymer
- H0102 NT Alternating copolymer
 "Not used for simple condensates"
 UF Ordered copolymer
- H0113 NT Random copolymer
 "Only used when stated to be such"
- H0351 Dendrimer (04)**
 "Not used for hyperbranched polymer. For hyperbranched use B5005 Degree of branching."
- H0124 Elastomer**
 UF Rubber
- H0135 NT Thermoplastic elastomer
- H0362 End functional polymer (04)**
 "Used for any polymer with end functional (i.e. reactive) group(s) that would not normally be present. The end functional groups must be for use or potential use in a reaction. In addition end modification will be indexed, if applicable. Examples include vinyl terminated polysiloxane and hydroxy terminated polybutadiene. The following examples would not be indexed as End functional polymer - carboxy terminated polyester, polyether polyols, NCO terminated polyurethane."
- H0373 NT Amine end functional polymer (04)
 "Polymer-C-N(CH₂)₂"
- H0384 NT Carboxy end functional polymer (04)
 "Including salts. Polymer-CO₂H!"
- H0395 NT C-C unsaturation end functional polymer (04)
 "Polymer-C=C or Polymer-C≡C"
- H0408 NT Epoxy end functional polymer (04)
 "Including any group containing an epoxy group"
- H0419 NT Hydroxy end functional polymer (04)
 "Polymer-C-OH"
- H0420 NT Other end functional polymer (04)
 SA Macromer as modified polymer
 SA Telechelic polymer
- H0146 Grafting polymer former**
 UF Grafting monomer
- H0157 Atoms(s) incorporated in polymer by modification**
 "Chemical aspects are applied with this term to represent the atoms incorporated"
 SA Modifying agent

- H0168 Head-to-head polymer**
- H0179 Ladder polymer**
- H0180 Living polymer**
- H0191 Macromer as modified polymer**
 "Oligomer or polymer modified to incorporate polymerisable functional group(s)"
 SA End functional polymer
- H0204 Macromer as polymer former**
 "Polymer former containing oligomer or polymer within its structure"
- H0215 Minor component**
 "Only used for polymer former component in copolymer, maximum 10%"
- H0226 Modifying agent**
 SA Atoms(s) incorporated in polymer by modification
- H0237 Oligomer**
 "For polyalkylene oxides 5-9 repeat units are regarded as oligomer; for other polymers 2-9 repeat units"
- H0248 NT Dimer
- H0259 Prepolymer**
- H0260 Polymer containing >1 Polymer Type**
 "Excludes polymers formed by reaction through C-C unsaturation"
- H0271 Polymer former**
 UF Condensant
 UF Monomer
- H0282 Polymer with structure tailored for property**
- H0293 Ring in backbone of polymer**
- H0339 Tapered polymer (96)**
 "Used when the relationship between components in a copolymer changes in a regular manner - for example the content of one monomer increasing and the other decreasing. Not used to define the shape of an article or fibre."
 SA Block copolymer
 SA Tapered fibre [*shape & form*]
- H0340 Telechelic polymer (96)**
 "Used for telechelic polymers, pseudo-telechelic polymers and telechels when stated. Telechelic polymers are those with specifically introduced reactive or functional end groups, such as Hydroxy-telechelic polybutadiene, Furan-terminated telechels. These polymers are directly useable, without further modification, in their intended application."
 SA End functional polymer
 SA Macromer as modified polymer
 SA Macromer as polymer former
 SA Living polymer
- H0306 Telomer**
- H0317 Thermoplastic**
- H0328 Thermosetting**

Polymer Formers

This facet contains specific terms and generic terms for polymer formers. Throughout the hierarchies we have used the term polymer former to cover both monomers and condensants.

These terms are arranged hierarchically with generic terms represented by Gnnnn codes and Specific Compound Numbers Rnnnnn used for the specific compounds. The basic hierarchical structure is:-

Organic - acetylenic
 monoolefinic
 diolefinic
 triolefinic and higher
 saturated

Inorganic

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Vinyl aromatics monoolefinic which has been coded, should be searched using G0102-R. Searching G0102 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

Polymer former concepts will be indexed for all polymers where the polymer formers are known, but they will not be assumed.

The Polymer Formers also autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out, for example a chlorine containing diolefinic compound. For a complete list of autogenerated aspects see the Polymer Indexing Reference Manual.

The Specific Compound Numbers each have a finite set of Chemical Aspects, the generic terms autogenerate only those Chemical Aspects which define the common structural features of the hierarchy.

The Gnnnn codes (generic terms) can be used with Chemical Aspects, all of which should be linked together at level 1 for searching.

In 1993 when the Polymer Indexing system was introduced, the Specific Compound Numbers Rnnnnn used for the specific compounds, were based on an existing set of codes used with the Chemistry Fragmentation coding system and now found in the Derwent Chemistry Resource. This set of codes has expanded to such a degree that the original format (Rnnnnn) is now exhausted and the Chemistry Specific Compound Numbers currently being introduced are now completely alpha numeric, although they are still 6 characters beginning with 'R', for example RA3QZC for Lauryl acrylate. In the Polymer Indexing system we have decided to keep to the original format of Specific Compound Numbers - Rnnnnn, but now autopost the Chemistry SCN where this is different.

Indexing Conventions:

Acrylic fibres (with no further chemical definitions) indexed as G0475.

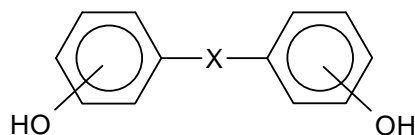
Carboxy vinyl polymer indexed as acrylic acid - polyallyl sucrose binary copolymer.

Perfluoroethers from tetrafluoroethylene and oxygen - indexed as tetrafluoroethylene polymer former and oxygen polymer former (G2346 O-).

Polyaluminoxanes from trialkylaluminium and water - indexed as trialkylaluminium polymer former and water polymer former (G2346 R01740).

Styrene-ethylene-butene-styrene block copolymer will be indexed as hydrogenated styrene-butadiene block copolymer, unless actually formed from styrene, ethylene and butene. Likewise, styrene-ethylene-propylene-styrene block copolymer will be indexed as hydrogenated styrene-isoprene block copolymer, unless otherwise stated.

Bisphenols are defined as having the structure below:-



Where X is a single bond or group not fused to either benzene ring and the benzene rings may be substituted.

Polymer Formers

G0000	Acetylenic	
R00327	NT	Acetylene
		UF Ethyne
G0011	NT	Acetylenic, other
G0022	Monoolefinic	
G0033	NT	(Cyclo)aliphatic monoolefinic hydrocarbons
G0044	NT	Aliphatic monoolefinic hydrocarbons
		UF Alkenes
R00326	NT	Ethylene
		UF Ethene
R00964	NT	Propylene
		UF Propene
G0055	NT	Butenes (gen)
		"Used when no specific isomer given"
R00805	NT	Butene-1
R00807	NT	Butene-2
R00966	NT	Isobutylene
R02047	NT	Pentene-1
R02043	NT	Hexene-1
R02046	NT	Heptene-1
R00936	NT	Octene-1
R02045	NT	Decene-1
R24026	NT	Octadecene-1
R02054	NT	Methylbutene-1, 3-
		UF Isopentene-1
R15485	NT	Methylpentene-1, 4-
G0066	NT	Straight chain aliphatic monoolefinic hydrocarbon, other
G0077	NT	Branched chain aliphatic monoolefinic hydrocarbon, other
G0088	NT	Cycloaliphatic monoolefinic hydrocarbons
R01289	NT	Norbornene-2
		UF Bicyclo(2.2.1)hept-2-ene
R01140	NT	Cyclopentene
G0099	NT	Cycloaliphatic monoolefinic hydrocarbon, other
G0102	NT	Vinyl aromatics monoolefinic
R00708	NT	Styrene
G0113	NT	Vinyl toluenes (gen)
		"Used when no specific isomer given"
R01410	NT	Vinyl toluene, 2-
R00725	NT	Vinyl toluene, 3-
R01417	NT	Vinyl toluene, 4-
R00673	NT	alpha-Methyl styrene
G0124	NT	Halomethyl styrenes (gen)
G0135	NT	Chloromethyl styrene
		"Mono substituted; all isomers"
G0146	NT	Bromomethyl styrene
		"Mono substituted; all isomers"
G0157	NT	Butyl styrene, t-
		"Mono substituted; all isomers"
G0168	NT	Vinylbenzyl trimethyl ammonium chloride
		"Mono substituted; all isomers"
R01416	NT	Cinnamic acid

G0179	NT	Vinyl phenol "Mono substituted; all isomers"
G0180	NT	Amino styrene "Mono substituted; all isomers"
G0191	NT	Styrene sulphonic acid + salts "Mono substituted; all isomers"
	UF	Styrene sulfonic acid + salts
G4002	NT	Styrene sulphonic acid (96) "Mono substituted; all isomers"
	UF	Styrene sulfonic acid
G0204	NT	Halo vinyl aromatics "Direct halo-ring bond only"
G0215	NT	Chloro vinyl aromatics "Direct chloro-ring bond only"
G0226	NT	Halo vinyl aromatics, other "Direct halo-ring bond only"
G0237	NT	Vinyl aromatic monoolefinic, other
G0248	NT	Non-vinyl aromatics monoolefinic
R01186	NT	Coumarone
	UF	Benzofuran
R00614	NT	Indene
G0259	NT	Non-vinyl aromatic monoolefinic, other
G0260	NT	Acrylics monoolefinic
G0271	NT	Acrylic acids monoolefinic "Including salts thereof"
G0282	NT	Acrylic acid + salts "Monoolefinic only"
R00446	NT	Acrylic acid
R24001	NT	Sodium acrylate
R24000	NT	Potassium acrylate
G0293	NT	Acrylic acid salt, other
G0306	NT	Methacrylic acid + salts "Monoolefinic only"
R00460	NT	Methacrylic acid
G0317	NT	Crotonic acid + salts "Monoolefinic only"
G0328	NT	Acrylic acid + salts, other "Monoolefinic only: Excluding acrylic acid + salts, methacrylic acid + salts and crotonic acid + salts"
G0339	NT	Acrylic esters monoolefinic
G0340	NT	Acrylic acid esters monoolefinic
R00642	NT	Methyl acrylate
R01126	NT	Ethyl acrylate
R24081	NT	Propyl acrylate, n- (96)
R24024	NT	Isopropyl acrylate
G0351	NT	Butyl acrylates (gen) "Used when no specific isomer given"
R01130	NT	Butyl acrylate, n-
R09390	NT	Butyl acrylate, t-
R21978	NT	Butyl acrylate, s-
R24029	NT	Isobutyl acrylate
R00745	NT	Ethylhexyl acrylate, 2-
	UF	Isooctyl acrylate
R24055	NT	Hexyl acrylate, n-

R24091	NT	Lauryl acrylate (04)
R24092	NT	Stearyl acrylate (04)
R24093	NT	Cyclohexyl acrylate (04)
R24094	NT	Isobornyl acrylate (04)
R24095	NT	Benzyl acrylate (04)
R00799	NT	Glycidyl acrylate
G0362	NT	Hydroxyalkyl acrylates
R01454	NT	Hydroxyethyl acrylate, 2-
R24023	NT	Hydroxypropyl acrylate, 2-
R21505	NT	Dimethylaminoethyl acrylate (04)
R24096	NT	Acryloxypropyl trimethoxy silane, 3- (04)
R24105	NT	Isocyanatoethyl acrylate, 2- (04)
R24022	NT	Phenoxyethyl acrylate
G4079	NT	Adamantyl acrylates (gen) (04)
		"Optionally substituted"
R24106	NT	Adamantyl acrylate (04)
G4080	NT	Other adamantyl acrylate (04)
G0373	NT	Acrylic acid ester monoolefinic, other
G0384	NT	Methacrylic acid esters monoolefinic
R00479	NT	Methyl methacrylate
R00653	NT	Ethyl methacrylate
R24082	NT	Propyl methacrylate, n- (96)
R24021	NT	Isopropyl methacrylate
G0395	NT	Butyl methacrylates (gen)
		"Used when no specific isomer given"
R00657	NT	Butyl methacrylate, n-
R11165	NT	Butyl methacrylate, t-
R24020	NT	Butyl methacrylate, s-
R21453	NT	Isobutyl methacrylate
R17881	NT	Ethylhexyl methacrylate, 2- UF Isooctyl methacrylate
R24097	NT	n-Hexyl methacrylate (04)
R24019	NT	Lauryl methacrylate
R22940	NT	Stearyl methacrylate
R24017	NT	Cyclohexyl methacrylate
R24016	NT	Isobornyl methacrylate
R24007	NT	Benzyl methacrylate
R00800	NT	Glycidyl methacrylate
G0408	NT	Hydroxyalkyl methacrylate
R01463	NT	Hydroxyethyl methacrylate, 2-
R24015	NT	Hydroxypropyl methacrylate, 2-
R01606	NT	Dimethylaminoethyl methacrylate
R05257	NT	Methacryloxypropyl trimethoxysilane, 3- SA Methacrylato silanes (gen) [chemicals]
R24054	NT	Isocyanatoethyl methacrylate, 2-
R24098	NT	Phenoxyethyl methacrylate (04)
G4091	NT	Adamantyl methacrylates (gen) (04)
		"Optionally substituted"

R24099		NT	Adamantyl methacrylate (04)
G4104		NT	Other adamantyl methacrylate (04)
G0419		NT	Methacrylic acid ester monoolefinic, other
G0420		NT	alpha-Cyanoacrylic acid esters monoolefinic
G0431		NT	alpha-Haloacrylic acid esters monoolefinic
G0442		NT	Acrylic ester monoolefinic, other
G0453	NT		Acrylic amides monoolefinic
R00444		NT	Acrylamide
R00459		NT	Methacrylamide
R07701		NT	Methylolacrylamide, N-
R21733		NT	Dimethylacrylamide, N,N-
R03538		NT	Acrylamido-2-methylpropanesulphonic acid, 2- UF Acrylamido-2-methylpropanesulfonic acid, 2-
G4013		NT	Acrylamido-2-methylpropanesulphonic salts, 2- (96) UF Acrylamido-2-methylpropanesulfonic salts, 2-
R18902		NT	Diacetone acrylamide
G0464		NT	Acrylic amide monoolefinic, other
G0475	NT		Acrylic nitriles monoolefinic
R00817		NT	Acrylonitrile UF Vinyl cyanide
R01078		NT	Methacrylonitrile
R01468		NT	Vinylidene cyanide
G0486		NT	Acrylic nitrile monoolefinic, other
G0497	NT		Acrylic aldehydes monoolefinic
R00808		NT	Acrolein
R00433		NT	Methacrolein
G0500		NT	Acrylic aldehyde monoolefinic, other
G0511	NT		Acrylic acid halides monoolefinic
R01453		NT	Acryloyl chloride
R01466		NT	Methacryloyl chloride
G0522		NT	Acrylic acid halide monoolefinic, other
G0533		NT	Acrylic monoolefinic, other
G0544	NT		Vinyl halides
R01404		NT	Vinyl bromide
R00338		NT	Vinyl chloride
R00339		NT	Vinyl fluoride
R24014		NT	Vinyl iodide
G0555	NT		Vinylidene halides
R01405		NT	Vinylidene bromide
R00360		NT	Vinylidene chloride
R00363		NT	Vinylidene fluoride
R24013		NT	Vinylidene iodide
G0566	NT		Vinyl carboxylic esters monoolefinic
R00835		NT	Vinyl acetate
R22506		NT	Vinyl propionate
R01038		NT	Vinyl butyrate
R00935		NT	Vinyl stearate
G0577		NT	Vinyl carboxylic ester monoolefinic, other
G0588	NT		Vinyl ethers monoolefinic
R00824		NT	Methyl vinyl ether
R00892		NT	Ethyl vinyl ether
R14573		NT	Butyl vinyl ether, n-
R24012		NT	Isobutyl vinyl ether

G0599	NT	Vinyl ether monoolefinic, other
G0602	NT	Vinyl thioethers monoolefinic
G4137	NT	Vinyl caprolactones (04)
G0613	NT	Vinyl pyridines (gen) "Optionally substituted; used when no specific isomer given"
R00724	NT	Vinyl pyridine, 2-
R00709	NT	Vinyl pyridine, 4-
G0624	NT	Vinyl carbazoles
G0635	NT	Vinyl pyrrolidones
G0646	NT	Vinyl phthalimides
R01619	NT	Vinyl isocyanate
G0657	NT	Vinyl caprolactams
G0668	NT	Vinyl imidazoles
G4148	NT	Vinyl amides, N- (04)
R11746	NT	Vinyl acetamide, N- (04)
R08072	NT	Vinyl formamide, N-
G4159	NT	Vinyl amide, N- other (04)
G0679	NT	Unsaturated ketones monoolefinic
R00438	NT	Vinyl methyl ketone
R21842	NT	Methyl isopropenyl ketone
G0680	NT	Unsaturated ketone monoolefinic, other
R24011	NT	Vinyl sulphonic acid UF Vinyl sulfonic acid
G0691	NT	Vinyl silanes monoolefinic "Used when no specific vinyl silane given"
R05399	NT	Vinyl triacetoxo silane
R00390	NT	Vinyl trichloro silane
R05400	NT	Vinyl triethoxy silane
R05402	NT	Vinyl trimethoxy silane
R05401	NT	Vinyl tris(2-methoxyethoxy) silane
G0704	NT	Vinyl silane monoolefinic, other
G0715	NT	(Meth)allyl derivatives monoolefinic
R01399	NT	Allyl acetate
R00820	NT	Allyl alcohol
R00815	NT	Allyl amine
R00810	NT	Allyl chloride
G0726	NT	Allyl ethers
R10657	NT	Allyl glycidyl ether
R24010	NT	Allyl sulphonic acid UF Allyl sulfonic acid
G0737	NT	Allyl monoolefinic, other
R24009	NT	Methallyl sulphonic acid UF Methallyl sulfonic acid
G0748	NT	Methallyl monoolefinic, other
R00975	NT	Tetrafluoroethylene
R00458	NT	Chlorotrifluoroethylene
R00976	NT	Hexafluoropropylene
R06317	NT	Trifluoroethylene
G0759	NT	Perfluoro(alkyl vinyl ether)
R01083	NT	Tetrachloroethylene
G0760	NT	Dicarboxylic derivatives monoolefinic
R00901	NT	Maleic acid
R00843	NT	Maleic anhydride

R05167		NT	Diocetyl maleate
R06723		NT	Phenylmaleimide, N-
R00902		NT	Fumaric acid
R00654		NT	Itaconic acid
R10232		NT	Itaconic anhydride (96)
R01288		NT	Citraconic acid
		UF	Methyl maleic acid
R13156		NT	Citraconic anhydride (96)
		UF	Methyl maleic anhydride
R05342		NT	Tetrahydrophthalic acid
R00516		NT	Tetrahydrophthalic anhydride
G0771		NT	Methyl tetrahydrophthalic anhydride
			"All isomers"
R24008		NT	Nadic acid
		UF	Carbic acid
R01094		NT	Nadic anhydride
		UF	Carbic anhydride
G0782		NT	Methyl nadic anhydride
			"All isomers"
R00968		NT	Chlorendic acid
R00967		NT	Chlorendic anhydride
G0793		NT	Dicarboxylic derivative monoolefinic, other
R00954	NT		Oleic acid
G0806	NT		Monoolefinic, other
G0817	Diolefinic		
G0828	NT		Conjugated aliphatic diolefinic
R00806		NT	Butadiene
R00429		NT	Isoprene
R01079		NT	Chloroprene
		UF	Chloro-1,3-butadiene, 2-
R01299		NT	Piperylene
		UF	Pentadiene, 1,3-
G0839		NT	Conjugated aliphatic diolefinic, other
G0840	NT		Aromatic hydrocarbons diolefinic
G0851		NT	Divinyl benzenes
			"All isomers"
G0862		NT	Aromatic hydrocarbon diolefinic, other
G0873	NT		Esters, non-conjugated diolefinic
R01479		NT	Allyl acrylate
R24006		NT	Methallyl acrylate
R00637		NT	Allyl methacrylate
R24005		NT	Methallyl methacrylate
G0884		NT	Diallyl phthalates (gen)
R01098		NT	Diallyl phthalate, 1,2-
R01592		NT	Ethylene glycol diacrylate
		UF	Glycol diacrylate
R00658		NT	Ethylene glycol dimethacrylate
		UF	Glycol dimethacrylate
R01595		NT	Diethylene glycol dimethacrylate
		UF	Diglycol dimethacrylate
R24079		NT	Diethylene glycol diacrylate
R05378		NT	Triethylene glycol dimethacrylate

G0895	NT	Butanediol diacrylates (gen) "Used when no specific isomer given"
R24004	NT	Butanediol diacrylate, 1,4-
R03629	NT	Butanediol diacrylate, 1,3-
R01611	NT	Butanediol dimethacrylate, 1,4-
R08320	NT	Hexanediol diacrylate, 1,6-
R24003	NT	Hexanediol dimethacrylate, 1,6-
R15368	NT	Diethylene glycol bis(allyl carbonate)
G0908	NT	Non-conjugated ester diolefinic, other
G0917	NT	Cycloaliphatic hydrocarbons diolefinic
R01353	NT	Cyclopentadiene
R00416	NT	Dicyclopentadiene
R01608	NT	Ethylidene norbornene
	UF	Ethylidene bicyclo(2.2.1)hept-2-ene, 5-
G0920	NT	Cycloaliphatic hydrocarbon diolefinic, other
G0931	NT	Non-conjugated aliphatic hydrocarbons diolefinic
R01402	NT	Hexadiene, 1,4-
G0942	NT	Non-conjugated aliphatic hydrocarbon diolefinic, other
R08306	NT	Diallyl dimethyl ammonium chloride
	UF	DADMAC
R08767	NT	Methylene bisacrylamide
R13150	NT	Acrylic anhydride
R13149	NT	Methacrylic anhydride
G0953	NT	Bismaleimides
G0964	NT	Diolefinic, other

G0975 Triolefinic and higher

G4115	NT	Tri- or higher acrylates (04)
R05388	NT	Trimethylolpropane triacrylate
R05389	NT	Trimethylolpropane trimethacrylate
R21451	NT	Pentaerythritol triacrylate
R17444	NT	Pentaerythritol tetraacrylate (04)
R15746	NT	Dipentaerythritol pentaacrylate (04)
R15747	NT	Dipentaerythritol hexaacrylate (04)
G4126	NT	Tri- or higher acrylates, other (04)
R05364	NT	Triallyl cyanurate
R00733	NT	Triallyl isocyanurate
	UF	Triallyl isocyanuric acid, N, N', N''-
R12852	NT	Tetramethyltetravinylcyclotetrasiloxane
G2357	NT	Polyallyl sucrose
G0986	NT	Triolefinic or higher, other

G0997 Alcohols

"Excluding phenols"

G1003	NT	Monohydroxy alcohols
R00660	NT	Furfuryl alcohol
G1014	NT	Monohydroxy alcohol, other
	SA	Monophenols
G1025	NT	Dihydroxy alcohols
R00822	NT	Ethylene glycol
	UF	Glycol
R00930	NT	Diethylene glycol
	UF	Diglycol
R00947	NT	Triethylene glycol

R00952		NT	Tetraethylene glycol
R00137		NT	Propylene glycol, 1,2-
R01300		NT	Propane diol, 1,3-
		UF	Trimethylene glycol
R07332		NT	Dipropylene glycol
R22882		NT	Tripropylene glycol
G1036		NT	Butane diols (gen)
			"Linear unbranched chains only; used when no specific isomer given"
R01390		NT	Butane diol, 1,2-
R00831		NT	Butane diol, 1,3-
R00908		NT	Butane diol, 1,4-
G1047		NT	Hexane diols (gen)
			"Linear unbranched chains only"
R01422		NT	Hexane diol, 1,6-
		UF	Hexamethylene glycol
R15351		NT	Hexane diol, 2,5-
R01075		NT	Neopentyl glycol
		UF	Dimethyl-1,3-propane diol, 2,2-
R00770		NT	Cyclohexyl dimethanol, 1,4-
		UF	Dimethylol cyclohexane, 1,4-
R00469		NT	Hydrogenated bisphenol A
		UF	Bis(4-hydroxycyclohexyl)propane, 2,2-
G1058		NT	Alkylene oxide adducts of bisphenols
G1069		NT	Dihydroxy alcohol, other
		SA	Diphenols
G1070	NT		Polyhydroxy alcohols
R00113		NT	Glycerol
		UF	Glycerine
R00972		NT	Pentaerythritol
R00032		NT	Sorbitol
R00420		NT	Trimethylol propane
R05429		NT	Tris(hydroxyethyl)isocyanurate
		UF	Tris(2-hydroxyethyl)-s-triazine-2,4,6-trione, 1,3,5-
G1081		NT	Polyhydroxy alcohol, other
		SA	Polyphenols
		SA	Phenols
G1092	Phenols		
G1105	NT		Monophenols
R00868		NT	Phenol
G1116		NT	Cresols (gen)
			"Used when no specific isomer given"
R00620		NT	Cresol, 2-
R00846		NT	Cresol, 3-
R00787		NT	Cresol, 4-
G1127		NT	Xylenols (gen)
R01387		NT	Xylenol, 2,6-
R01110		NT	Naphthol, 2-
G1138		NT	Monohydric phenol, other
G1149	NT		Diphenols
R00851		NT	Resorcinol
R01041		NT	Hydroquinone
R05362		NT	Methylhydroquinone
		UF	Toluhydroquinone

R01006	NT	Pyrocatechol
	UF	Catechol
	UF	Dihydroxybenzene, 1,2-
G1150	NT	Bisphenols (gen)
R06529	NT	Dihydroxybiphenyl, 4,4'-
	UF	Biphenol, 4,4'-
G1161	NT	Isopropylidene bisphenols
R00470	NT	Bisphenol A
	UF	Bis(4-hydroxyphenyl)propane, 2,2-
R03113	NT	Tetrabromobisphenol A, 3,3',5,5'-
	UF	Bis(3,5-dibromo-4-hydroxyphenyl)propane, 2,2-
G1172	NT	Isopropylidene bisphenol, other
R13033	NT	Bisphenol AF (96)
	UF	Bis(4-hydroxyphenyl)hexafluoropropane, 2,2-
G1183	NT	Bisphenol ethers
G1194	NT	Bisphenol ketones
G1207	NT	Bisphenol methanes
R12487	NT	Bisphenol F
	UF	Bis(4-hydroxyphenyl)methane
G1218	NT	Bisphenol methane, other
G1229	NT	Bisphenol sulphides
	UF	Bisphenol sulfides
G1230	NT	Bisphenol sulphones
	UF	Bisphenol sulfones
R00473	NT	Bisphenol S
	UF	Bis(4-hydroxyphenyl)sulphone
G1241	NT	Bisphenol sulphone, other
G1252	NT	Bisphenol, other
G1263	NT	Diphenol, other
G1274	NT	Polyphenols
R00539	NT	Pyrogallol
	UF	Trihydroxybenzene, 1,2,3-
G1285	NT	Polyphenol, other
G1296	Carbonates	
R00645	NT	Ethylene carbonate
	UF	Dioxolone
R00844	NT	Propylene carbonate
	UF	Methyl-1,3-dioxolan-2-one, 4-
R21644	NT	Diethyl carbonate
R07250	NT	Dimethyl carbonate
R06918	NT	Diphenyl carbonate
G1309	NT	Carbonate, other
G4024	Carboxylic derivatives (96)	
G1310	NT	Carboxylic acids
G1321	NT	Polymerised fatty acids
	UF	Dimer acids
G1332	NT	Monobasic carboxylic acids
R03993	NT	Acetoxybenzoic acid, 4-
G1343	NT	Dibasic carboxylic acids
R01152	NT	Oxalic acid
R00900	NT	Succinic acid
R00920	NT	Glutaric acid
	UF	Propane dicarboxylic acid, 1,3-

R01060	NT	Adipic acid
	UF	Hexanedioic acid
	UF	Butane dicarboxylic acid, 1,4-
R00923	NT	Pimelic acid
	UF	Pentane dicarboxylic acid, 1,5-
R01302	NT	Suberic acid
	UF	Hexane dicarboxylic acid, 1,6-
R01059	NT	Azelaic acid
	UF	Heptane dicarboxylic acid, 1,7-
	UF	Nonanedioic acid
R00924	NT	Sebacic acid
	UF	Octane dicarboxylic acid, 1,8-
R07786	NT	Dodecanedioic acid
R00554	NT	Phthalic acid
	UF	Benzene dicarboxylic acid, 1,2-
R01023	NT	Isophthalic acid
	UF	Benzene dicarboxylic acid, 1,3-
R00702	NT	Terephthalic acid
	UF	Benzene dicarboxylic acid, 1,4-
R01489	NT	Naphthalene dicarboxylic acid, 2,6-
	UF	Naphthalic acid, 2,6-
G1354	NT	Sulphoisophthalic acid + salts
	UF	Sulfoisophthalic acid + salts
R10610	NT	Sulphoisophthalic acid, 5-sodium salt
	UF	Sulfoisophthalic acid, 5-sodium salt
G1365	NT	Dibasic carboxylic acid, other
G1376	NT	Polybasic carboxylic acids
R01328	NT	Trimellitic acid
	UF	Benzene tricarboxylic acid, 1,2,4-
R00555	NT	Pyromellitic acid
	UF	Benzene tetracarboxylic acid, 1,2,4,5-
G1387	NT	Polybasic carboxylic acid, other
G1398	NT	Carboxylic anhydrides
G1401	NT	Dibasic carboxylic anhydrides
R00842	NT	Succinic anhydride
R00515	NT	Hexahydrophthalic anhydride
	UF	Cyclohexane dicarboxylic anhydride
R08834	NT	Methylhexahydrophthalic anhydride
R00517	NT	Phthalic anhydride
R05336	NT	Tetrabromophthalic anhydride
R05339	NT	Tetrachlorophthalic anhydride
G1412	NT	Dibasic carboxylic anhydride, other
G1423	NT	Polybasic carboxylic anhydrides
R01363	NT	Trimellitic anhydride
R00556	NT	Pyromellitic dianhydride
R05043	NT	Benzophenone tetracarboxylic dianhydride, 3,3',4,4'-
R12068	NT	Biphenyl tetracarboxylic dianhydride
R19233	NT	Hexafluoroisopropylidene diphthalic anhydride, 4,4'-(96)
	UF	Isobenzofurandione, 5,5'-(2,2,2-trifluoro-1-trifluoromethyl)- hydridene) bis-1,3-
R24083	NT	Oxydiphthalic dianhydride, 4,4'- (96)
	UF	Diphenyl ether tetracarboxylic acid dianhydride

G1434		NT	Polybasic carboxylic anhydride, other
G1445	NT		Carboxylic esters
G1456		NT	Dibasic carboxylic esters
R01002		NT	Dimethyl terephthalate
G1467		NT	Dibasic carboxylic ester, other
G1478	NT		Carboxylic acid halides
G1489		NT	Dibasic carboxylic acid halides
R03807		NT	Phthaloyl chloride
R03806		NT	Isophthaloyl chloride
R00701		NT	Terephthaloyl chloride
G1490		NT	Dibasic carboxylic acid halide, other

G4035 Acetals (96)

R00917	NT		Trioxane
R24025	NT		Tetraoxacin
R01435	NT		1,3-Dioxolane (96)
R12337	NT		1,3-Dioxane (96)
G4046	NT		Acetal, other (96)

G1503 Aldehydes

R00001	NT		Formaldehyde
R00343	NT		Acetaldehyde
R00823	NT		Glyoxal
R00927	NT		Glutaraldehyde
R00715	NT		Benzaldehyde
R00661	NT		Furfuraldehyde
		UF	Furfural
G1514	NT		Aldehyde, other

G1525 Ketones

R00272	NT		Acetone
		UF	Dimethylketone
		UF	Propanone, 2-
R03599	NT		Hexafluoroacetone
R00437	NT		Methyl ethyl ketone
		UF	MEK
G1536	NT		Ketone, other

G1547 Ketenes

R01271	NT		Ketene
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G1558 Epoxides

R00351	NT		Ethylene oxide
		UF	Oxirane
R00370	NT		Propylene oxide
G1569	NT		Butylene oxide
			"All epoxide isomers"
R05070	NT		Butyl glycidyl ether
R00638	NT		Styrene oxide
R10004	NT		Hexafluoropropylene oxide
G1570	NT		Epihalohydrins
R00798	NT		Epichlorohydrin
G1581	NT		Epoxide, other

G1592 Cyclic ethers

G1605	NT		Oxacyclobutanes (gen)
R11352	NT		Bis(chloromethyl)oxacyclobutane
		UF	Bis(chloromethyl)oxetane, 3,3-

G1616		NT	Oxacyclobutane, other
R00896	NT		Furan
R00895	NT		Tetrahydrofuran
[G1627	NT		<i>Dioxanes (gen)] discontinued 199601</i>
R01057	NT		1,4 Dioxane
G1638	NT		Cyclic ether, other
G1649	Amines		
G1650	NT		Monoamines
R00232		NT	Aniline
R01020		NT	Dimethyl aniline, N,N-
R01176		NT	Ethyleneimine
		UF	Aziridine
R00894		NT	Pyrrole
G1661		NT	Monoamine, other
G1672	NT		Diamines
R00819		NT	Ethylene diamine
R00905		NT	Diaminobutane, 1,4-
		UF	Butane diamine, 1,4-
		UF	Tetramethylene diamine
R01062		NT	Hexane diamine, 1,6-
		UF	Hexamethylene diamine
G1683		NT	Diaminodiphenyl ethers
R07859		NT	Diaminodiphenyl ether, 3,4'- (96)
		UF	Oxydianiline, 3,4'-
R09389		NT	Diaminodiphenyl ether, 4,4'-
		UF	Oxydianiline, 4,4'-
G1694		NT	Diaminodiphenyl ether, other
G1707		NT	Diaminodiphenyl ketones
G1718		NT	Diaminodiphenyl methanes
R00737		NT	Diaminodiphenyl methane, 4,4'-
		UF	Methylene dianiline, 4,4'-
G1729		NT	Diaminodiphenyl methane, other
G1730		NT	Diaminodiphenyl sulphides
		UF	Diaminodiphenyl sulfides
G1741		NT	Diaminodiphenyl sulphones
		UF	Diaminodiphenyl sulfones
R00472		NT	Diaminodiphenyl sulphone, 4,4'-
		UF	Bis(4-aminophenyl)sulphone
G1752		NT	Diaminodiphenyl sulphone, other
G1763		NT	Diaminobenzenes
			"Optionally substituted"
R00624		NT	Phenylene diamine, 2-
R00850		NT	Phenylene diamine, 3-
R00793		NT	Phenylene diamine, 4-
R00632		NT	Diamino toluene, 2,4-
G1774		NT	Diaminobenzene, other
G4057		NT	Bis (aminophenoxy) benzenes (96)
		UF	Bis (1,3-aminophenoxy) benzene, 1,3-
		UF	Bis (1,4-aminophenoxy) benzene, 1,3-
G1785		NT	Xylylene diamine
			"All isomers"
R04047		NT	Isophorone diamine
R01188		NT	Triethylene diamine

R15286		UF	Diazabicyclo(2.2.2)octane, 1,4-
		NT	Benzoguanamine
		UF	Diamino-6-phenyl-s-triazine, 2,4-
G1796		NT	Diamine, other
G1809	NT		Polyamines
R00928		NT	Diethylene triamine
R00925		NT	Triethylene tetramine
R00727		NT	Hexamethylene tetramine
		UF	Hexamine
		UF	Urotropin
R00859		NT	Melamine
		UF	Triamino-s-triazine, 2,4,6-
G1810		NT	Polyamine, other
G1821	Ureas		
R00123	NT		Urea
R01265	Hydantoin		
R01264	Dicyanodiamide		
R00956	Guanidine		
G1832	Thioureas		
R00235	NT		Thiourea
G1843	Isocyanates		
G1854	NT		Diisocyanates
R01455		NT	Hexamethylene diisocyanate
		UF	HMI
G1865		NT	Trimethylhexamethylene diisocyanates "All isomers"
R09192		NT	Cyclohexane diisocyanate, 1,4-
R17132		NT	Dicyclohexylmethane diisocyanate, 4,4'-
R01624		NT	Isophorone diisocyanate
		UF	Trimethyl-1-isocyanatomethyl-5-isocyanato cyclohexane, 1,3,3-
G1876		NT	Phenylene diisocyanate "All isomers"
G1887		NT	Diphenylmethane diisocyanates (gen) "Used when no specific isomer given"
		UF	MDI
R00735		NT	Diphenylmethane diisocyanate, 4,4'-
		UF	MDI, 4,4'-
R20015		NT	Diphenylmethane diisocyanate, 2,4'-
		UF	MDI, 2,4'-
G1898		NT	Diphenylmethane diisocyanate, other
G1901		NT	Naphthalene diisocyanates (gen)
R12045		NT	Naphthalene diisocyanate, 1,5-
G1912		NT	Toluene diisocyanates (gen) "Used when no specific isomer given"
		UF	TDI
R01392		NT	Toluene diisocyanate, 2,4-
		UF	TDI, 2,4-
R00574		NT	Toluene diisocyanate, 2,6-
		UF	TDI, 2,6-
G1923		NT	Xylylene diisocyanate "All isomers"
G1934		NT	Diisocyanate, other

G1945	NT	Polyisocyanates
R24058	NT	Polymethylenepolyphenylene polyisocyanate
	UF	PAPI
G1956	NT	Polyisocyanate, other

G1967 Isothiocyanates**G1978 Halogen containing**

R00345	NT	Dichloromethane
	UF	Methylene chloride
G1989	NT	Dichloroethanes (gen)
		"Used when no specific isomer given"
R00359	NT	Dichloroethane, 1,1-
R00811	NT	Dichloroethane, 1,2-
	UF	Ethylene dichloride
R00621	NT	Dichlorobenzene, 2-
R00789	NT	Dichlorobenzene, 4-
R00471	NT	Dichlorodiphenyl sulphone, 4,4'-
	UF	Dichlorodiphenyl sulfone, 4,4'-
R24002	NT	Difluorodiphenyl ketone, 4,4'-
G1990	NT	Halogen containing, other

G2006 Thioethers

R00898	NT	Thiophene
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G2017 Mercaptans

R00201	NT	Mercaptoethanol
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G2028 Sulphonic acids + salts

	UF	Sulfonic acids + salts
R00667	NT	Benzene sulphonic acid
R00760	NT	Toluene sulphonic acid
G2039	NT	Naphthalene sulphonic acids
		"Mono substituted; all isomers"
G2040	NT	Naphthalene sulphonic acid salts
		"Mono substituted; all isomers"
G2051	NT	Sulphonic acid + salts, other

G2062 Amino acids

"Carboxylic acids only"

R00205	NT	Aminocaproic acid
R24048	NT	Aminoanthanic acid, 1,7-
R24051	NT	Aminoundecanoic acid, 1,11-
R00114	NT	Aspartic acid (04)
	UF	2-Amino-succinic acid
R01655	NT	Lysine (04)
	UF	2,6-Diamino-hexanoic acid
G2073	NT	Amino acid, other

G2084 Lactams

R00776	NT	Caprolactam
R24049	NT	Enantholactam, 1,7-
R24050	NT	Undecanolactam, 1,11-
R08563	NT	Lauro lactam
	UF	Dodecyl lactam
G2095	NT	Lactam, other

G2108 Hydroxy acids

"Carboxylic acids only"

R00448	NT	Glycolic acid
	UF	Hydroxyacetic acid
R00009	NT	Lactic acid
	UF	Hydroxypropionic acid, 2-
R01656	NT	Malic acid (04)
	UF	Hydroxybutanedioic acid
	UF	2-Hydroxy-succinic acid
R00540	NT	Tartaric acid
R00419	NT	Citric acid
	UF	Hydroxy-3,4-dicarboxy-n-butyric acid, 3-
G2119	NT	Hydroxybenzoic acid (gen)
		"Mono substituted; all isomers"
	UF	Salicylic acid
R06653	NT	Hydroxystearic acid, 12-
G2120	NT	Hydroxy acid, other
G2131	Lactones	
R00644	NT	Butyrolactone
R01295	NT	Caprolactone
R17298	NT	Glycolide
G4068	NT	Lactide (96)
	UF	Dimethyl-1,4-dioxane-2,5-dione, 3,6-
G2142	NT	Lactone, other
G2153	Hydroxyamines	
R01131	NT	Ethanolamine
R00929	NT	Diethanolamine
R00743	NT	Triethanolamine
R00887	NT	Methylethanolamine, N-
	UF	(Methylamino)ethanol, 2-
R00834	NT	Dimethylethanolamine, N,N-
G2164	NT	Aminophenol
		"All isomers"
G2175	NT	Hydroxyamine, other
G2186	Vegetable oil	
	UF	Drying oil
	UF	Non-drying oil
G2197	NT	Castor oil
G2200	NT	Linseed oil
G2211	NT	Soybean oil
G2222	Epoxidised vegetable oil	
	UF	Epoxidized vegetable oil
	UF	Epoxidised drying oil
	UF	Epoxidised non-drying oil
G2233	NT	Epoxidised castor oil
G2244	NT	Epoxidised linseed oil
G2255	NT	Epoxidised soybean oil
G2266	Si compounds, organic	
G2277	NT	Si compounds containing 1 Si
R16680	NT	Dimethylchlorosilane
R00383	NT	Dimethyldichlorosilane
R24030	NT	Methyldichlorosilane
R00382	NT	Trimethylchlorosilane
R24031	NT	Methyldimethoxysilane

R23114	NT	Dimethyldimethoxysilane
R08655	NT	Methyltrimethoxysilane
R09202	NT	Methyltriethoxysilane (96)
R22582	NT	Butyl methyl dimethoxysilane, t-
R08200	NT	Diphenyldimethoxysilane
R00384	NT	Methyltrichlorosilane
G2288	NT	Si compounds containing 1 Si, other
G2299	NT	Si compounds containing 2 Si or more
R04617	NT	Hexamethyldisilazane
R07702	NT	Octamethylcyclotetrasiloxane
G2302	NT	Si compounds containing 2 Si or more, other
	SA	Tetramethyltetravinylcyclotetrasiloxane
	SA	Amino silanes (gen) [chemicals]
	SA	Epoxy silanes (gen) [chemicals]
	SA	Mercapto silanes (gen) [chemicals]

G2313 Unsubstituted Hydrocarbons

G2324 Organic polymer former, other

G2335 Inorganic polymer formers

R13387	NT	Carbonic acid
R00365	NT	Phosgene
R01066	NT	Carbon dioxide
R01423	NT	Carbon monoxide
R01674	NT	Sulphur dioxide
	UF	Sulfur dioxide
R01208	NT	Hydrazine
R01518	NT	Sodium sulphide
	UF	Sodium sulfide
R01740	NT	Water (96)
G2346	NT	Inorganic polymer former, other

Polymer Types

The Polymer Types facet is arranged with six very general concepts at the beginning and the remaining main terms and hierarchies then arranged alphabetically. The codes are of the format Pnnnn.

This facet contains concepts for defining the type of polymer; some of these concepts are very general and just define the polymer in terms of how it is formed, others are used to define the generic type, e.g. polyester, and others are very specific, such as ethylene vinyl acetate binary copolymer.

At least one of these Polymer Type codes or Polymer Descriptor code must be applied to every polymer indexed; often in practice several of the codes are applied to define a single polymer.

Within each hierarchy, the Narrower Terms (NT) will autopost the more generic term(s). When a Polymer Type term occurs in more than one hierarchy, such as Polyesteramide, it will autopost all relevant Broader terms. Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Acrylic polymer which has been coded should be searched using P0088-R. Searching P0088 will retrieve all references - indexed and autoposted.

The Polymer Type terms autogenerate only a few Chemical Aspects, such as Amide from Polyamide, but Chemical Aspects can be indexed and searched with the generic Polymer Types.

A complete list of these autogenerated codes is given in the Polymer Indexing Reference Manual.

Styrene-ethylene-butene-styrene block copolymer will be indexed as hydrogenated styrene-butadiene block copolymer, unless actually formed from styrene, ethylene and butene. Likewise, styrene-ethylene-propylene-styrene block copolymer will be indexed as hydrogenated styrene-isoprene block copolymer.

A polymer with no single Polymer Type code applicable, e.g. polyetheramideketone, will have all the relevant main codes applied - in this case Polyether, Polyamide and Polyketone, along with the code H0260 for Polymer containing >1 Polymer Type.

Polymers such as Polyethylene will have all the relevant codes applied - in this case Polyolefin (Polymer Type), Polyethylene (Polymer Type), Ethylene (Polymer Former) and Homopolymer (Polymer Descriptor).

In the cases where a Polymer Type code fully defines a polymer by polymer former and polymer descriptor, then searching the Polymer Type code will give the same results as searching the Polymer Former(s) linked to the Polymer Descriptor. For example, P0099 Polyacrylic acid is equivalent to Acrylic acid Homopolymer R00446 (2) H0000.

Polymer Types

- P0000 Polymer type (gen)**
 "Used when neither polymer type nor polymer former(s) are specified"
- P0033 Polymer formed by reaction of C-C unsaturation with non C-C unsaturated functionality**
 "Includes bismaleimide with diamine, polyene with polythiol, and Nylon 3 from acrylamide. Also includes ethylene with CO"
- P0044 Polymer formed by C-C bond formation**
 "Excludes polymers formed by reaction through C=C or C≡C unsaturation only and polyalkenamers. Includes phenol-terpene resins, polyxylylenes"
- P0055 Polymer formed by heterocyclic ring opening**
 "Includes polypropylene oxide, polycaprolactone, polyethylene imine"
- P0066 Polymer formed by (opt. substd.) hydrocarbon ring opening**
 UF Metathesis polymers
- P0077 Polymer formed by cyclisation during polymerisation**
- P0088 Acrylic polymer**
- P0099 NT Polyacrylic acid
- P0102 NT Polyacrylonitrile
- P0113 NT Polymethyl methacrylate
 UF PMMA
- P0124 NT Acrylonitrile - Butadiene BCP
- P0135 NT Acrylonitrile - Butadiene rubber
 UF Nitrile rubber
- P1876 NT Acrylonitrile - Styrene - Acrylate CP (96)
 UF ASA
- P0146 NT Methacrylate - Butadiene - Styrene TCP
 UF MBS
- P0157 NT Styrene - Acrylonitrile BCP
 UF SAN
- P0168 NT Ethylene - Acrylic acid BCP
- P0179 NT Ethylene - Methacrylic acid BCP
- P0180 NT Ethylene - Ethyl acrylate BCP
- P0191 NT Acrylonitrile - Butadiene - Styrene TCP
 UF ABS
- P0204 NT Vinyl chloride - Acrylonitrile BCP
- P0215 NT Vinylidene chloride - Acrylonitrile BCP
- P0226 Aldehyde and/or ketone resin (gen)**
- P0248 NT Acetal and/or ketal resin
- P1887 NT Polyoxymethylene (96)
 "Includes polyformaldehyde, polytrioxane and copolymers containing minor amounts of polymer former such as ethylene oxide"
- P0259 NT Aminoplast
- P0260 NT Melamine - Formaldehyde resin
- P0271 NT Urea - Formaldehyde resin
- P0282 NT Phenoplast
- P0293 NT Phenol - Formaldehyde resin
- P0306 NT Phenolic - Drying oil resin
 SA Epoxidised phenolic resin
- P0317 NT Aldehyde/ketone resin, other
- P0328 Aliphatic conjugated diene polymers**
- P0339 NT Polybutadiene

P0340	NT	Polychloroprene UF Neoprene
P0351	NT	Styrene - Butadiene BCP
P0362	NT	Styrene - Butadiene rubber
P0373	NT	Styrene - Butadiene block BCP
P0384	NT	Hydrogenated Styrene - Butadiene block BCP UF Styrene - Ethylene - Butene block CP
P0395	NT	Styrene - Isoprene BCP
P0408	NT	Styrene - Isoprene rubber
P0419	NT	Styrene - Isoprene block BCP
P0420	NT	Hydrogenated Styrene - Isoprene block BCP UF Styrene - Ethylene - Propylene block CP
P0124	NT	Acrylonitrile - Butadiene BCP
P0135	NT	Acrylonitrile - Butadiene rubber UF Nitrile rubber
P0191	NT	Acrylonitrile - Butadiene - Styrene TCP UF ABS
P0146	NT	Methacrylate - Butadiene - Styrene TCP UF MBS
P0431	NT	Isobutylene - Isoprene rubber UF Butyl rubber

P0442 (Methylene) Arylene polymer

"Optionally substituted"

	UF	Polyxylylene
	UF	Xylok resin
P8106	NT	Polyfluorenes (04)
P0453	NT	Phenol - Aralkyl resin "Includes reaction products of phenol(s) and xylylene derivatives"

P1967 (Bis)benzocyclobutene resins (96)**P0464 Epoxy resin**

P1898	NT	Bisphenol A type Epoxy resin (96) "Use for epoxy resins with optionally ring substituted bisphenol A structure"
P0475	NT	Bisphenol A diglycidyl ether epoxy resin
P1901	NT	Bisphenol F type Epoxy resin (96) "Use for epoxy resins with optionally ring substituted bisphenol F structure"
P0486	NT	Cycloaliphatic epoxy resin
P0497	NT	Epoxidised phenolic resin UF Epoxidized phenolic resin

P0500 Fluoro resin

"Only used for general reference to Fluoro resins"

SA	Ethylene - Chlorotrifluoroethylene BCP
SA	Ethylene - Tetrafluoroethylene BCP
SA	Polytetrafluoroethylene
SA	Tetrafluoroethylene - Hexafluoropropylene BCP
SA	Vinylidene fluoride - Hexafluoropropylene BCP

P0566 Friedel Crafts resin**P0577 Furan resin****P0588 Ionomer****P0599 Natural polymer**

P0602	Petroleum resins	
	UF	Hydrocarbon resin
P0613	Phenol - Cyclopentadiene resin	
		"Reaction product of Phenol(s) and (Di)cyclopentadiene(s)"
P0624	Phenol - Terpene resin	
		"Reaction product of Phenol(s) and Terpene(s)"
P1912	Polyalum(in)oxanes (96)	
P1923	NT	Polymethylalum(in)oxanes (96)
P0635	Polyamide	
		"Carboxylic amides only"
	UF	Nylon
P1934	NT	Saturated aliphatic polyamide (96)
P1945	NT	Nylon 4 (96)
P0646	NT	Nylon 6
P0657	NT	Nylon 8
P0668	NT	Nylon 11
P0679	NT	Nylon 12
P0680	NT	Nylon 4,6
P0691	NT	Nylon 6,6
P0704	NT	Nylon 6,10
P0715	NT	Nylon 6,12
P0726	NT	Nylon 6,6-6
P8117	NT	Nylon 6/66/6T (04)
		"Specific repeat units only, no other repeat units present."
P8128	NT	Nylon 6/66/6I (04)
		"Specific repeat units only, no other repeat units present."
P8139	NT	Nylon 66/6T (04)
		"Specific repeat units only, no other repeat units present."
P8140	NT	Nylon 66/6I (04)
		"Specific repeat units only, no other repeat units present."
P8151	NT	Nylon 6I/6T (04)
		"Specific repeat units only, no other repeat units present."
P8162	NT	MXD6 (04)
		"Specific repeat units only, no other repeat units present."
P0737	NT	Aramid
P0748	NT	Poly m-phenylene isophthalamide
	UF	Nomex
P0759	NT	Poly p-phenylene terephthalamide
	UF	Kevlar
P0760	NT	Polyesteramide
P0771	NT	Polyamideimide
P0782	Polyanhydride	
P1956	Polyazomethine (96)	
		"SRU containing -CH=N- in backbone"
P0793	Polybenzimidazole	
P0806	Polybenzoxazole	
P0817	Polybenzthiazole	
P0828	Polycarbodiimide	
P0839	Polyester	
		"Carboxylic esters only"

P0840	NT	Alkyd resin "Includes non-linear polyesters and those involving (non)drying oils"
P0862	NT	Polycarbonate
P0873	NT	Unsaturated polyester "Linear polyester containing C=C or C≡C unsaturation"
P1978	NT	Saturated polyester (96)
P0851	NT	Polyarylate
P0884	NT	Polyethylene terephthalate UF PET
P8173	NT	Polypropylene terephthalate (04) UF PPT UF Polytrimethylene terephthalate
P0895	NT	Polybutylene terephthalate UF PBT
P0908	NT	Polyethylene terephthalate isophthalate
P1989	NT	Polyethylene naphthalate (96) "All isomers"
P1990	NT	Poly 1,4-cyclohexane dimethylene terephthalate (96)
P0919	NT	Polyester polyol SA Polyesterurethane
P0760	NT	Polyesteramide
P0920	NT	Polyesterimide
P0931	NT	Polyesterurethane
P0942	NT	Polycarbonate-urethane
P0953	NT	Polyetherester
P0964	Polyether	
P0975	NT	Polyalkylene ether
P8004	NT	Polyethylene glycol (96) "-(CH ₂ -CH ₂ -O)-" UF Polyethylene oxide
P8015	NT	Polypropylene glycol (96) "-(CH(CH ₃)-CH ₂ -O)-" UF Polypropylene oxide
P8026	NT	Polybutylene glycol (96) "-(C ₄ H ₈ O) _n -"
P8037	NT	Polybutylene oxide (96) "-(CH ₂ -C(C ₂ H ₅)-O)-"
P8048	NT	Polytetramethylene glycol (96) "-(CH ₂ -CH ₂ -CH ₂ -CH ₂ -O)-" UF Polytetrahydrofuran
P0986	NT	Phenoxy resin
P0997	NT	Polyphenylene ether UF Polyphenylene oxide
P0953	NT	Polyetherester
P1003	NT	Polyetherimide
P1014	NT	Polyetherketone UF PEK
P1025	NT	Polyetheretherketone UF PEEK
P1036	NT	Polyether polyol SA Polyetherurethane
P1047	NT	Polyethersulphone UF Polyethersulfone

P1058	NT	Polyetherurethane
P1069	NT	Polyetherurethane from alkylene oxide copolymer
P1070		Polyhydantoin
P1081		Polyimide
P1092	NT	Polyamic acid
P0771	NT	Polyamideimide
P0920	NT	Polyesterimide
P1003	NT	Polyetherimide
P1105		Polyimine
P1116	NT	Polyalkyleneimine
P1127	NT	Polyaniline "Optionally substituted"
P1138		Polyionene
P1149		Polyketone
P1014	NT	Polyetherketone
	UF	PEK
P1025	NT	Polyetheretherketone
	UF	PEEK
P1150		Polyolefin
P1161	NT	Polyethylene "Homopolymer of ethylene"
P1172	NT	Low density polyethylene "Homopolymer of ethylene with density 0.918 - 0.932 g/cc"
	UF	LDPE
P1183	NT	Medium density polyethylene "Homopolymer of ethylene with density 0.926 - 0.940 g/cc"
	UF	MDPE
P1194	NT	High density polyethylene "Homopolymer of ethylene with density > 0.940 g/cc"
	UF	HDPE
P1207	NT	High molecular weight high density polyethylene "Homopolymer of ethylene with density 0.941 - 0.965 g/cc and M.W. 200K-500K"
	UF	HMWHDPE
P1218	NT	Ultra high molecular weight polyethylene "Homopolymer of ethylene with M.W. >3M"
	UF	UHMWPE
P1229	NT	Chlorinated polyethylene
P1230	NT	Chlorosulphonated polyethylene
	UF	Chlorosulfonated polyethylene
P1241	NT	Very low density polyethylene "Copolymer of ethylene with other olefin(s) of density 0.890 - 0.915 g/cc"
	UF	VLDPE
	UF	Ultra low density polyethylene
	UF	ULDPE
P1252	NT	Linear low density polyethylene "Copolymer of ethylene with other olefin(s) of density 0.916 - 0.940 g/cc"
	UF	LLDPE
P0168	NT	Ethylene - Acrylic acid BCP
P1263	NT	Ethylene - Butene-1 BCP
P1274	NT	Ethylene - Carbon monoxide BCP
P0522	NT	Ethylene - Chlorotrifluoroethylene BCP
	SA	Fluoro resin

P0180	NT	Ethylene - Ethyl acrylate BCP
P0179	NT	Ethylene - Methacrylic acid BCP
P1285	NT	Ethylene - PropyleneBCP
P1296	NT	Ethylene - Propylene rubber
P1309	NT	Ethylene - Propylene - Diene monomer UF EPDM
P0533	NT	Ethylene - Tetrafluoroethylene BCP SA Fluoro resin
P1310	NT	Ethylene - Vinyl acetate BCP
P1321	NT	Ethylene - Vinyl acetate - Vinyl alcohol UF Ethylene - Vinyl acetate partially hydrolysed
P1332	NT	Ethylene - Vinyl alcohol UF Ethylene - Vinyl acetate hydrolysed
P1343	NT	Polypropylene
P1354	NT	Propylene - Vinyl chloride BCP
P0431	NT	Isobutylene - Isoprene rubber UF Butyl rubber

P8059 Polyorthoesters (96)

UF Polyorthocarbonates

P1365 Polyoxadiazole**P1376 Polyoxazoline****P1387 Polyoxazolidine****P1398 Polyparabanic acid****P8060 Polyphenylene vinylenes (96)**

"Optionally ring substituted"

P1401 Polyphosphazine

UF Phosphonitrilic polymer

P1412 Polypyrrole

"Optionally substituted"

P1423 Polysilane

"Includes polycarbosilanes"

P1434 Polysilazane**P1445 Polysiloxane**

P1456	NT	Polydimethylsiloxane "Optionally end group modified"
P8184	NT	Polymethylvinylsiloxane (04) "Optionally end group modified."
P8195	NT	Polymethylphenylsiloxane (04) "Optionally end group modified."
P8208	NT	Polyhydrogenmethylsiloxane (04) "Optionally end group modified."
P8219	NT	Polysilsesquioxanes (04) "Optionally substituted. Optionally end group modified."

P1467 Polysulphide

UF Polysulfide

UF Polythioether

P1478	NT	Polyarylene sulphide UF Polyarylene sulfide UF Polyphenylene sulphide
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P1489	Polysulphonamide		
	UF	Polysulfonamide	
P1490	Polysulphone		
	UF	Polysulfone	
P1047	NT	Polyethersulphone	
	UF	Polyethersulphone	
P0511	Polytetrafluoroethylene		
	UF	PTFE	
	SA	Fluoro resin	
P8071	Polythioester (96)		
		"SRU containing -C(S)-O- or -C(O)-S- or -C(S)-S- in backbone"	
P1503	Polythiophene		
		"Optionally substituted"	
P1514	Polythiourea		
P1525	Polythiourethane		
P1536	Polytriazine		
		"6-membered ring containing 3 N atoms"	
P1547	NT	Polycyanurate	
	UF	Cyanurate resin	
P1558	NT	Polyisocyanurate	
P1569	Polytriazole		
		"5-membered ring containing 3 N atoms"	
	UF	Polyaminotriazole	
	UF	Polytriazoline	
P1570	Polyurea		
P1581	NT	Polyurethaneurea	
P1592	Polyurethane		
P0931	NT	Polyesterurethane	
P0942	NT	Polycarbonate-urethane	
P1058	NT	Polyetherurethane	
P1069	NT	Polyetherurethane from alkylene oxide copolymer	
P1605	NT	Polyurethane from HO-contg. polymer from C=C or C≡C polymer former	
P1616	NT	Polyurethane from N-contg. polyol	
P1627	NT	Polyurethane NOT from isocyanate	
P1638	NT	Polyurethane from monomeric polyol	
P1649	NT	Polyurethane from >1 high M W polyol	
P1581	NT	Polyurethaneurea	
P1650	NT	Polyurethane, other	
P1865	Polyvinyl acetals		
P1661	NT	Polyvinyl acetal	
P1672	NT	Polyvinyl butyral	
P1683	NT	Polyvinyl formal	
	SA	Acetalised polymer <i>[modified polymers]</i>	
P8082	Polyvinylamines (96)		
P8093	NT	Polyvinylamine (96)	
P0544	Tetrafluoroethylene - Hexafluoropropylene BCP		
	SA	Fluoro resin	
P1694	Vinyl alcohol polymers		
P1707	NT	Polyvinyl alcohol	
	UF	PVA	

P1321	NT	Ethylene - Vinyl acetate - Vinyl alcohol
	UF	Ethylene - Vinyl acetate partially hydrolysed
P1332	NT	Ethylene - Vinyl alcohol
	UF	Ethylene - Vinyl acetate hydrolysed
P1718	NT	Vinyl acetate - Vinyl alcohol
	UF	Vinyl acetate partially hydrolysed
P1729	NT	Vinyl chloride - Vinyl acetate - Vinyl alcohol
	UF	Vinyl chloride - Vinyl acetate partially hydrolysed
P1730	NT	Vinyl alcohol polymer, other
	SA	Hydrolysed polymer [<i>modified polymer</i>]
	SA	Hydroxy group incorporated polymer [<i>modified polymers</i>]

P1741 Styrenic polymers

P0191	NT	Acrylonitrile - Butadiene - Styrene TCP
	UF	ABS
P1876	NT	Acrylonitrile - Styrene - Acrylate CP (96)
	UF	ASA
P1763	NT	High Impact Polystyrene
	UF	HIPS
P0146	NT	Methacrylate - Butadiene - Styrene TCP
	UF	MBS
P1752	NT	Polystyrene
P0157	NT	Styrene - Acrylonitrile BCP
	UF	SAN
P0351	NT	Styrene - Butadiene BCP
P0362	NT	Styrene - Butadiene rubber
P0373	NT	Styrene - Butadiene block BCP
P0384	NT	Hydrogenated Styrene - Butadiene block BCP
	UF	Styrene - Ethylene - Butene block CP
P1774	NT	Styrene - Divinyl benzene BCP
P0395	NT	Styrene - Isoprene BCP
P0408	NT	Styrene - Isoprene rubber
P0419	NT	Styrene - Isoprene block BCP
P0420	NT	Hydrogenated Styrene - Isoprene block BCP
	UF	Styrene - Ethylene - Propylene block CP
P1785	NT	Sulphonated Styrene - Divinyl benzene BCP
	UF	Sulfonated Styrene - Divinyl benzene BCP

P1796 Vinyl chloride polymers

P1809	NT	Polyvinyl chloride
	UF	PVC
P1354	NT	Propylene - Vinyl chloride BCP
P0204	NT	Vinyl chloride - Acrylonitrile BCP
P1729	NT	Vinyl chloride - Vinyl acetate - Vinyl alcohol
	UF	Vinyl chloride - Vinyl acetate partially hydrolysed
P1832	NT	Vinyl chloride - Vinyl acetate BCP
P1843	NT	Vinyl chloride - Vinylidene chloride BCP

P0555 Vinylidene fluoride - Hexafluoropropylene BCP

SA Fluoro resin

P1854 Polymer type, other

"Includes 'bucket chemistry' products"

Related terms from other facets:

H0260 Polymer from >1 Polymer Type [*polymer descriptors*]

Natural Polymers

This facet contains all the concepts for Natural Polymers.

These terms are arranged hierarchically in alphabetical order with generic terms represented by Gnnnn codes and Specific Compound Numbers Rnnnnn used for specific compounds.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched adding '-R' to the end of the code; thus Cellulose esters which has been indexed should be searched using G3645-R. Searching G3645 will retrieve all references - indexed and autoposted.

The Polymer Type code P0599 Natural Polymer will be autogenerated whenever a Natural Polymer code is indexed from this facet.

The Natural Polymers autogenerate the relevant Chemical Aspects, to enable generic searching to be carried out.

For mixed cellulose ether esters, such as hydroxyethyl cellulose phthalate, use the cellulose ether ester code (G3690) and Chemical Aspects e.g. E19 phthali-.

Natural Polymers

G3601	Bituminous polymers	
G3612	NT	Asphalt
	UF	Bitumen
R24072	NT	Montan wax
R24071	NT	Pitch
R01868	Lignin	
R24088	Lignin sulphonic acid (96)	
	UF	Lignin sulfonic acid
R24038	Lignin sulphonate salts (gen)	
	UF	Lignin sulfonate salts (gen)
R24073	Natural rubber	
R24074	Natural rubber isomers	
	UF	Balata
	UF	Gutta percha
R24028	Polyhydroxybutyric acid	
R24090	Polyhydroxyvaleric acid (96)	
G3623	Polysaccharides	
R24070	NT	Agar
	UF	Agarose
R01866	NT	Alginic acid
R07226	NT	Alginic acid salts (gen)
R11203	NT	Calcium alginate
R06725	NT	Sodium alginate
R24036	NT	Carrageenan
G3634	NT	Cellulosics
R01852	NT	Cellulose
R24078	NT	Cotton
R24077	NT	Regenerated cellulose
R24075	NT	Cellophane
R24076	NT	Viscose
	UF	Rayon
G3645	NT	Cellulose esters
R01853	NT	Cellulose acetate
R17001	NT	Cellulose diacetate
R17002	NT	Cellulose triacetate
R01854	NT	Cellulose acetate butyrate
	UF	CAB
R16917	NT	Cellulose acetate phthalate (96)
R01855	NT	Cellulose acetate propionate (96)
	UF	Cellulose acetopropionate
R24042	NT	Cellulose butyrate
R24100	NT	Cellulose phthalate (04)
R24041	NT	Cellulose propionate
R24035	NT	Cellulose stearate
G3656	NT	Cellulose inorganic esters
R01861	NT	Cellulose nitrate
R24087	NT	Cellulose phosphate (96)
G3667	NT	Cellulose ester, other

G3678		NT	Cellulose ethers
R01835		NT	Carboxymethyl cellulose UF CMC
R06717		NT	Carboxymethyl cellulose salts (gen)
R07352		NT	Sodium carboxymethyl cellulose
R01860		NT	Methyl cellulose
R01858		NT	Ethyl cellulose
R24089		NT	Propyl cellulose (96)
R01865		NT	Ethyl hydroxyethyl cellulose
R16378		NT	Hydroxymethyl cellulose
R01859		NT	Hydroxyethyl cellulose
R03005		NT	Hydroxypropyl cellulose
R06563		NT	Hydroxypropylmethyl cellulose
G3689		NT	Cellulose ether, other
G3690		NT	Cellulose ether ester
R03233	NT		Chitin
R03882	NT		Chitosan
R24069	NT		Galactomannan gum
R03104	NT		Guar gum
R24037	NT		Gum arabic
R03231	NT		Hyaluronic acid (04)
R17032	NT		Pectin
R01863	NT		Starch
R24032		NT	Cyclodextrin
R01857		NT	Dextran
R03275		NT	Dextrin
R16377	NT		Xanthan gum
G3703	NT		Polysaccharide, other

G3714 Proteinaceous polymers

R24039	NT		Albumin
R24040	NT		Casein
R24034	NT		Collagen
R24068	NT		Fibroin UF Silk
R24033	NT		Gelatin
G3725	NT		Keratin UF Wool
G3736	NT		Proteinaceous polymer, other

R24027 Rosin

	UF		Colophony
	UF		Dammar
	UF		Tree resin
R01314	NT		Abietic acid
R24067	NT		Tall oil

G3747 Terpene resins

G3758 Natural polymer, other

Related terms from other facets:

P0599	Natural Polymer [<i>polymer types</i>]
C282	Catalyst for natural polymer production [<i>catalysts</i>]
L2402	Natural polymer production [<i>chemical processes</i>]

Modified Polymers

The terms for Modified Polymers are arranged hierarchically in alphabetical order, with codes of the format Mnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched adding '-R' to the end of the code; thus Halogenated polymer which has been indexed, should be searched using M2222-R. Searching M2222 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, M9999, will be present in the online record whenever a Modified Polymer code has been applied. This enables you to search for the presence of a Modified Polymer without specifying the type of modification.

Many of the concepts in this facet correspond with concepts in the Chemical Processes facet. The Modified Polymer terms are used when the product of the process is the important feature, rather than the process itself.

These Modified Polymer terms can be used in conjunction with Polymer Formers, Polymer Types, Polymer Descriptors and/or Chemical Aspects.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Indexing Conventions:

Brominated epoxy resins (with no further information as to whether the polymer former(s) contain bromine or the epoxy resin is post-brominated) are indexed as Epoxy resin with Br (Chemical Aspect).

Whenever a polymer is reacted with another polymer, each polymer is regarded as both a modified polymer and a modifying agent.

Modified Polymers

- M2006 Acetalised polymer**
 SA Polyvinyl acetals [*polymer types*]
- M2017 Acrylated polymer**
 "Modified with any acrylic derivative. Used with other modified polymer concepts as applicable"
- M2028 Amidated polymer**
 "Including urea group formed"
- M2039 Aminated polymer**
- M2040 Ammoxidated polymer**
- M2051 Boron incorporated polymer**
 "Modified by any process incorporating boron"
- M2062 Carboxy group incorporated**
- M2073 Crosslinked polymer**
 UF Cured polymer
 UF Vulcanised polymer
- M2084 Cyclised polymer**
 "Ring created by bond formation"
- M2095 Degraded polymer**
 M2108 NT Carbonised polymer
 UF Pyrolysed polymer
 UF Thermally decomposed polymer
 M2119 NT Depolymerised polymer
- M2120 Dehalogenated polymer**
- M2131 Dehydrohalogenated polymer**
- M2142 Doped polymer**
 SA Metal incorporated polymer
- M2153 End group modified polymer**
 M2164 NT End blocked polymer
- M2175 Epoxidised polymer**
 "Modified by formation or incorporation of epoxy group"
- M2186 Esterified polymer**
 "Polymer modified with carboxylic acid or derivative only"
 SA Acrylated polymer
 SA Halosulphonated polymer
 SA Maleinised polymer
 SA Sulphonated polymer
- M2200 Etherified polymer**
- M2211 Haloalkylated polymer**
- M2222 Halogenated polymer**
 M2233 NT Brominated polymer
 M2244 NT Chlorinated polymer
 SA Chlorinated polyethylene [*polymer types*]
- M2255 NT Fluorinated polymer
 M2266 NT Iodinated polymer
 SA Haloalkylated polymer
 SA Halosulphonated polymer

- M2277 Halosulphonated polymer**
 UF Halosulfonated polymer
 UF Sulphohalogenated polymer
 UF Sulfohalogenated polymer
- M2288 NT Chlorosulphonated polymer
 SA Chlorosulphonated polyethylene *[polymer types]*
- M2299 Hydrocarbylated polymer**
 "Modified by C-C bond formation"
 UF Alkylated polymer
 UF Arylated polymer
 SA Haloalkylated polymer
- M2846 Hydroformylated (96)**
 "Polymer modified by addition of a hydroformyl group (H₂CO)"
- M2302 Hydrohalogenated polymer**
- M2313 Hydrolysed polymer**
 UF Alcoholised polymer
 UF Glycolised polymer
 UF Saponified polymer
 SA Vinyl alcohol polymers *[polymer types]*
- M2324 Hydroxy group incorporated polymer**
 SA Hydrolysed polymer
 SA Vinyl alcohol polymers *[polymer types]*
- M2335 Imidated polymer**
 SA Cyclised polymer
- M2346 Isomerised polymer**
 UF Disproportionated polymer
 UF Rearranged polymer
- M2357 Ketalised polymer**
- M2368 Maleinised polymer**
 "Modified with any maleic derivative. Used with other modified polymer concepts as applicable"
- M2379 Metal incorporated polymer**
 "Metal excludes Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
- M2380 NT Metallated polymer
 "C-metal bond formed"
 SA Boron incorporated polymer
 SA Phosphorus incorporated polymer
 SA Silicon incorporated polymer
- M2391 Modified polymer (gen)**
 "Used when modification not specified"
- M2415 Neutralised polymer**
- M2426 Nitrated polymer**
 "Modified by addition of NO₂"
- M2437 Oxidised polymer**
 UF Ozonised polymer
- M2448 NT Dehydrogenated polymer
- M2459 Oxyalkylated polymer**
 UF Alkoxyated polymer
- M2460 Phosphorus incorporated polymer**
 "Modified by any process incorporating phosphorus"

- M2700 Quaternised polymer**
- M2711 Reduced polymer**
 M2722 NT Hydrogenated polymer
- M2766 Silanated polymer**
 "Modified by formation of Si-C bond"
 UF Silylated polymer
 SA Silicon incorporated polymer
- M2777 Silicon incorporated polymer**
 "Modified by any process incorporating silicon"
 SA Silanated polymer
- M2788 Sulphated polymer**
 UF Sulfated polymer
- M2799 Sulphonated polymer**
 UF Sulfonated polymer
- M2802 Surface modified polymer**
 "Modified by chemical process only"
- M2813 Unsaturation incorporated polymer**
 "C-C unsaturation only"
 SA Acrylated polymer
 SA Maleinised polymer
- M2824 Urethanised polymer**
 UF Carbamylated polymer
- M2835 Modified polymer, other**

Related terms from other facets:

- H0226 Modifying agent [*polymer descriptors*]
- H0157 Atom(s) incorporated in polymer by modification [*polymer descriptors*]
- H0362 End functional polymer (04) [*polymer descriptors*]

Chemicals

The Chemicals facet contains all those compounds which commonly occur as additives, catalysts and modifying agents for polymers.

The terms are arranged alphabetically, with Specific Compound Numbers Rnnnnn being used for the specific compounds and Gnnnn codes for generic terms.

There are several small hierarchies within this facet, in which the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Adipic acid esters which have been coded should be searched using G2404-R. Searching G2404 will retrieve all references - indexed and autoposted.

Several of the compounds in this facet can also be found in the Polymer Formers facet. The codes for compounds in this facet can be used for searching polymer formers, preferably in conjunction with the relevant generic or other terms from the Polymer Formers hierarchy.

All of the Specific Compound Numbers and generic codes in this facet autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out.

For a complete list of autogenerated Chemical Aspects see the Polymer Indexing Reference Manual.

Chemicals

- R01314 Abietic acid**
 SA Rosin [natural polymers]
- R00247 Acetic acid**
- R00840 Acetic anhydride**
- R00272 Acetone**
- R00342 Acetonitrile**
 UF Methyl cyanide
- R00675 Acetophenone**
 UF Phenyl methyl ketone
 UF Acetylbenzene
- R24047 Acetyl benzoyl peroxide**
- R08437 Acetyl cyclohexyl sulphonyl peroxide**
 UF Acetyl cyclohexyl sulfonyl peroxide
- R10247 Acetyl peroxide**
 UF Diacetylperoxide
- R10379 Acetyl tributyl citrate**
- R01047 Acetylacetone**
 UF Pentanedione, 2,4-
- R05000 Acetylacetone peroxide**
- R01060 Adipic acid**
- G2404 Adipic acid esters (gen)**
 "Used when no specific adipate given"
- R05115 NT Dibutyl adipate
- R05143 NT Dihexyl adipate
- R00746 NT Diisooctyl adipate
 UF DOA
 UF Di(2-ethylhexyl) adipate
- R05166 NT Di n-octyl adipate
- R05286 NT Octyl n-decyl adipate, n-
- G2415 NT Adipic acid ester, other
- G2426 Alkyl mercaptans (gen)**
 "Used when no specific mercaptan given"
- G2437 NT Dodecyl mercaptans (gen)
 "Used when no specific isomer given"
- R00951 NT Dodecyl mercaptan, n-
 UF Lauryl mercaptan, n-
 UF Lauryl thiol
- R14858 NT Dodecyl mercaptan, t-
- R05289 NT Octyl mercaptan, n-
- G2448 NT Alkyl mercaptan, other
- R03167 Aluminium**
- R01677 Aluminium chloride**
- R02020 Aluminium hydroxide**
 UF Alumina trihydrate
- R01544 Aluminium oxide**
 UF Alumina

- R01949 Aluminium silicate**
 UF China clay
 UF Clay
 UF Kaolin
 SA Bentonite
- R01432 Aluminium stearate**
- R01892 Aluminium sulphate**
 UF Aluminium sulfate
- G2459 Amino silanes (gen)**
 "Used when no specific amino silane given"
- R15564 NT Amino propyl trimethoxysilane, gamma- (04)
 R03119 NT Aminopropyltriethoxysilane, gamma-
 R10366 NT Aminopropyltrimethoxysilane, N-beta-(aminoethyl)-gamma-
 G2460 NT Amino silane, other
- R24046 Aminoethyl piperidine, N-**
- R01713 Ammonia**
- R24066 Ammonium 3,3'-methylenebis(2-naphthalene sulphonate)**
 UF Ammonium 3,3'-methylenebis(2-naphthalene sulfonate)
- R01425 Ammonium acetate**
- R05417 Ammonium bicarbonate**
- R01945 Ammonium bromide**
- R01304 Ammonium carbonate**
- R01947 Ammonium chloride**
- R24065 Ammonium dodecylbenzene sulphonate**
 UF Ammonium dodecylbenzene sulfonate
- R01534 Ammonium hydroxide**
- R06252 Ammonium molybdate**
- R03252 Ammonium persulphate**
 UF Ammonium persulfate
- R03561 Ammonium polyphosphate**
- R04218 Ammonium tetrafluoroborate**
- R00997 Anthracene**
- R24045 Anthranilamide**
- R00506 Anthraquinone**
- G2471 Antimony chlorides (gen)**
 "Used when no specific antimony chloride given"
- R01709 NT Antimony (III) chloride
 R04326 NT Antimony(V) chloride
- G2482 Antimony oxides (gen)**
 "Used when no specific antimony oxide given"
- R03292 NT Antimony pentoxide
 R01527 NT Antimony trioxide
- R16211 Asbestos**
- R00035 Ascorbic acid**
- G2493 Azelaic acid esters (gen)**
 "Used when no specific azelaic acid ester given"
- R05144 NT Di n-hexyl azelate

R20718	NT	Diisooctyl azelate
G2506	NT	Azelaic acid ester, other
R08166		Azobis(2-amidinopropane) hydrochloride, 2,2'-
R05026		Azobis(4-cyanovaleric acid), 4,4'-
R05027		Azobis(2,4-dimethylvaleronitrile), 2,2'-
R00426		Azobisisobutyronitrile, 2,2'-
	UF	Azobis(2-methylpropionitrile), 2,2,-
	UF	AZBN
	UF	AIBN
R05028		Azobis(4-methoxy-2,4-dimethylvaleronitrile), 2,2'-
R01055		Azodicarboxamide
G2517		Barium-cadmium systems
G2528		Barium-cadmium-zinc systems
R01311		Barium carbonate
R04650		Barium ferrite
R02001		Barium hydroxide
R10608		Barium metaborate
R05032		Barium stearate
R01739		Barium sulphate
	UF	Barium sulfate
	UF	Barytes
G2539		Barium-zinc systems
R03126		Bentonite
R00092		Benzamide
R05035		Benzanthraquinone
R00306		Benzene
R00667		Benzene sulphonic acid
	UF	Benzene sulfonic acid
R05036		Benzene sulphonyl hydrazide
	UF	Benzene sulfonyl hydrazide
R05037		Benzene sulphonyl semicarbazide
	UF	Benzene sulfonyl semicarbazide
R01108		Benzil
R05038		Benzil dimethyl ketal
	UF	Dimethoxy-2-phenylacetophenone, 2,2-
R00258		Benzoic acid
R00993		Benzoin
R03351		Benzoin ethyl ether
R05040		Benzoin isobutyl ether
R05041		Benzoin isopropyl ether
R05042		Benzoin methyl ether
R00994		Benzophenone
R05043		Benzophenone tetracarboxylic dianhydride, 3,3',4,4'-
R00794		Benzoquinone, 4-
	UF	Quinone

R05044		Benzothiazole-2-sulphenamide
G2540		Benzotriazoles (gen)
		"Used when no specific benzotriazole given"
R00615	NT	Benzotriazole
G2551	NT	Benzotriazole, 2-(2'-hydroxy-alkylphenyl)
R05118	NT	Chloro-benzotriazole, 2-(3',5'di t-butyl-2'-hydroxyphenyl)-5-
R05230	NT	Hydroxyphenyl benzotriazole, 2-
G2562	NT	Benzotriazole, other
R00676		Benzoyl chloride
R00610		Benzoyl peroxide
R00714		Benzyl alcohol
R06279		Benzyl dimethyl ketal
R12472		Bis(t-butylcyclohexyl)peroxy dicarbonate
R05047		Bis(t-butylperoxy)butane, 2,2-
R05048		Bis(t-butylperoxy)cyclohexane, 1,1-
R03960		Bis(t-butylperoxy)diisopropylbenzene, 1,3-
R05050		Bis(t-butylperoxy)3,3,5-trimethylcyclohexane, 1,1-
R05051		Bis(chloroethyl)chloroethyl phosphonate
R05052		Bis(2,4-di t-butylphenyl)pentaerythritol phosphite
R05054		Bis(2-dimethylaminoethyl)ether
G2573		Bis(dimethylbenzyl) diphenylamine
R05161		Bis(hydroperoxy)-2,5-dimethylhexane, 2,5-
R05056		Bis(2-hydroxyethyl)-4-toluidine, N,N-
	UF	Toluene diethanolamine, p-
R05180		Bis(2-methylphenyl)guanidine
R00470		Bisphenol A
	UF	Bis(4-hydroxyphenyl)propane, 2,2-
R01894		Boric acid
R01668		Boron
R06458		Boron carbide
R01893		Boron nitride
R01699		Boron trifluoride
R00876		Boron trifluoride etherate
G2584		Brass
R01735		Bromine
G3463		Bronze
R00804		Butane
G2595		Butyl acetates (gen)
R01056	NT	Butyl acetate, n-
G3496		Butyl alcohol (gen) (96)
	UF	Butanol (gen)
R00304	NT	Butyl alcohol, n-
	UF	Butanol, n-
R00436	NT	Butyl alcohol, s-
	UF	Butanol, s-

R00373	NT	Butyl alcohol, t-
	UF	Butanol, t-
R09579		Butyl anthraquinone, 2-t-
R05062		Butyl azo-2,4-dimethyl valeronitrile, 2-t-
R05063		Butylbenzothiazole sulphenamide, N-t-
R05065		Butyl-4,4'-bis(t-butylperoxy)valerate, n-
R04075		Butyl catechol, 4-t-
	UF	Butyl-1,2-dihydroxybenzene, 4-t-
R00939		Butyl cellosolve
	UF	Butoxyethanol
R05067		Butyl cumyl peroxide, t-
R05069		Butyl ethyl magnesium, n-
R05070		Butyl glycidyl ether
R00389		Butyl hydroperoxide, t-
R08967		Butylidene-bis(t-butyl cresol), 4,4'-
	UF	Butylidene-bis(3-methyl-6-t-butylphenol), 4,4-
G2608		Butyl lithium (gen)
		"Used when no specific isomer given"
R00882	NT	Butyl lithium, n-
R08927	NT	Butyl lithium, s-
R09211	NT	Butyl lithium, t-
G2619		Butyl magnesium halide
R22582		Butyl methyl dimethoxysilane, t-
R24052		Butyl oleate, n-
R05074		Butyl peroxyacetate, t-
R01412		Butyl peroxybenzoate, t-
R05075		Butyl peroxy(2-ethylhexanoate), t-
R05076		Butyl peroxyisobutyrate, t-
R05077		Butyl peroxy maleic acid, t-
	UF	Butyl peroxy maleate, t-
R15444		Butyl peroxyneodecanoate, t-
R18682		Butyl peroxyoctoate, t-
R05079		Butyl peroxy pivalate, t-
R00668		Butyl phenol, 4-t-
R05081		Butyl stearate
R05082		Cadmium stearate
R01505		Cadmium sulphide
G2620		Cadmium-zinc systems
R00233		Calcium acetate
R01278		Calcium carbonate
	UF	Limestone
	SA	Chalk
R01895		Calcium chloride
R01502		Calcium hydroxide

- R01503 Calcium oxide**
- G3509 Calcium phosphate (gen) (96)**
 R01748 NT Calcium phosphate dibasic
 R01755 NT Calcium phosphate monobasic
 R01757 NT Calcium phosphate tribasic
- R01550 Calcium silicate**
 SA Wollastonite
- R01563 Calcium stearate**
- R01767 Calcium sulphate**
 SA Gypsum
- G2631 Calcium-zinc systems**
- R00401 Camphor**
- R03348 Camphorquinone**
- R00776 Caprolactam**
- R01669 Carbon**
 SA Carbon black
 SA Carbon fibre
 SA Graphite
- R05085 Carbon black**
 UF Acetylene black
 UF Activated charcoal
 SA Carbon
 SA Graphite
- R05086 Carbon fibre**
 SA Graphite
- R00101 Carbon tetrachloride**
- G2642 Carnauba wax**
- G3510 Ceramics (96)**
 "Used only for general references to ceramics"
- R05089 Ceric ammonium nitrate**
- G3452 Chalk**
 SA Calcium carbonate
- R00968 Chlorendic acid**
- R00967 Chlorendic anhydride**
- G2653 Chlorinated paraffin**
- R01781 Chlorine**
- G2664 Chloroanthraquinone**
 "Mono substituted; all isomers"
- R00864 Chlorobenzene**
- R00366 Chlorodifluoromethane**
 UF Freon 22
- R00273 Chloroform**
- R00626 Chlorophenol, 2-**
- R00848 Chlorophenol, 3-**
- R00791 Chlorophenol, 4-**

- R01998 Chloroplatinic acid**
 UF Platinic chloride
- R05093 Chloropropyl trimethoxysilane, gamma-**
- R05094 Chlorothioxanthone, 2-**
- R00377 Chlorotrifluoromethane**
- R13440 Chromium (II) acetylacetonate**
- G2675 Chromium chlorides (gen)**
 "Used when no specific chromium chloride given"
- R10690 NT Chromium (II) chloride
 R01883 NT Chromium (III) chloride
- G2686 Chromium oxides (gen)**
 NT Chromium (III) oxide
- R00419 Citric acid**
 UF Hydroxy-3,4-dicarboxy-n-butyric acid, 3-
- G2697 Cobalt acetates (gen)**
 "Used when no specific cobalt acetate given"
- R04048 NT Cobalt (II) acetate
 R01645 NT Cobalt (III) acetate
- R05096 Cobalt (II) acetylacetonate**
- G2700 Cobalt chlorides (gen)**
 "Used when no specific cobalt chloride given"
- R01702 NT Cobalt (II) chloride
 R12677 NT Cobalt (III) chloride
- R07251 Cobalt naphthenate**
- R12821 Cobalt (II) octanoate**
- R05099 Copper**
- G2711 Copper acetates (gen)**
 "Used when no specific copper acetate given"
- R12128 NT Copper (I) acetate
 R01626 NT Copper (II) acetate
- G2722 Copper carbonates (gen)**
 NT Copper (II) carbonate
- G2733 Copper chlorides (gen)**
 "Used when no specific copper chloride given"
- R03311 NT Copper (I) chloride
 R01547 NT Copper (II) chloride
- G2744 Copper naphthenates (gen)**
 NT Copper (II) naphthenate
- G2755 Copper oxides (gen)**
 NT Copper (I) oxide
- R00846 Cresol, 3-**
- R00474 Cumene hydroperoxide**
 UF Isopropylbenzene hydroperoxide
- R00913 Cyclohexane**
- R00866 Cyclohexanol**
- R00867 Cyclohexanone**

- R01950 Cyclohexanone peroxide**
- R00865 Cyclohexylamine**
- R00618 Cyclohexyl-benzthiazol-2-yl sulphenamide, N-**
UF CBS
- R05104 Cyclohexylthiophthalimide, N-**
- R01191 Cyclopentane (04)**
- R05321 Dawsonite**
UF Sodium aluminium hydroxycarbonate
- R05105 Decabromodiphenyl**
- R05106 Decabromodiphenyl ether**
UF Decabromodiphenyl oxide
- R01063 Decane, n-**
- R05107 Decanoyl peroxide**
UF Caproyl peroxide
- R05108 Diacetyl**
UF Dimethyl glyoxal
- R00905 Diaminobutane, 1,4-**
UF Butane diamine, 1,4-
UF Tetramethylene diamine
- G1718 Diaminodiphenyl methanes (gen)**
"Used when no specific isomer given"
- R00737 NT Diaminodiphenyl methane, 4,4'-
UF Methylene dianiline, 4,4'-
- G1729 NT Diaminodiphenyl methane, other
- G1741 Diaminodiphenyl sulphones (gen)**
"Used when no specific isomer given"
- UF Diaminodiphenyl sulfones (gen)
- R00472 NT Diaminodiphenyl sulphone, 4,4'-
UF Bis(4-aminophenyl)sulphone
- G1752 NT Diaminodiphenyl sulphone, other
- G2766 Diatomaceous earth**
UF Diatomite
UF Kieselguhr
- R04358 Diazabicyclo(5.4.0) undec-7-ene, 1,8-**
- R01005 Dibenzothiazyl disulphide**
- R01005 Dibenzothiazyl disulphide**
UF Dibenzothiazyl disulfide
UF Mercaptobenzthiazyl ether
- R04425 Dibenzylidene sorbitol**
- R00944 Di n-butylamine**
- R05116 Di t-butylhydroquinone, 2,5-**
- R05117 Di t-butyl-4-hydroxybenzoic acid, 3,5-**
- R05119 Dibutyl magnesium**
- R05120 Di n-butyl maleate**
- R01090 Di t-butyl-4-methyl phenol, 2,6-**
- R00899 Di t-butyl peroxide**
- R01091 Di t-butylphenol, 2,6-**

R05124		Dibutyl tin diacetate
R08802		Dibutyl tin diisooctylthioglycolate
R00415		Dibutyl tin dilaurate
R03148		Dibutyl tin dioctoate
R06446		Dibutyl tin maleate
G2777		Dibutyl tin mercaptide
R24053		Di n-butyl tin mercaptopropionate
R05130		Dibutyl tin oxide
R24056		Di n-butyl tin thioglycolate
R05132		Dichlorobenzoyl peroxide, 2,4-
R00376		Dichlorodifluoromethane
R00811		Dichloroethane, 1,2-
	UF	Ethylene dichloride
R00364		Dichlorofluoromethane
R00345		Dichloromethane
	UF	Methylene chloride
R00399		Dichlorotetrafluoroethane, 1,2-
R05133		Dicinnamylidene hexane diamine
R00476		Dicumyl peroxide
R01264		Dicyanodiamide
R05136		Diethanolamine stearate
R05259		Diethanol methylamine, N,N-
R05137		Diethoxyacetophenone
R00639		Diethyl aluminium chloride
R00890		Diethyl amine
R05138		Diethylamine oleate
R05139		Diethylaminopropylamine
R00587		Diethyl aniline
R21644		Diethyl carbonate
R01162		Diethyl dithiocarbamic acid
R05140		Diethylene glycol dibenzoate
R01595		Diethylene glycol dimethacrylate
	UF	Diglycol dimethacrylate
R00945		Diethylene glycol dimethyl ether
R12254		Diethylene glycol monomethyl ether
R00928		Diethylene triamine
R00705		Diethyl ethanolamine, N,N-
R05141		Diethyl magnesium
R05142		Diethyl zinc
G2788		Dihydrocarbyl phosphites (gen)
		"Used when no specific dihydrocarbyl phosphite given"
R05122	NT	Dibutyl phosphite
R05173	NT	Diphenyl phosphite
G2799	NT	Dihydrocarbyl phosphite, other

- G3485 Dihydroxybenzophenones (gen)**
 "Used when no specific dihydroxybenzophenone given"
- R05147 NT Dihydroxybenzophenone, 2,4-
 R05149 NT Dihydroxy-4-methoxybenzophenone, 2,2'-
 G2802 NT Dihydroxybenzophenone, other
- R24064 Diisobutyl aluminium chloride**
- R24060 Diisobutyl aluminium hydride**
- R24085 Diisooctyl peroxydicarbonate (96)**
 UF Di 2-ethylhexyl peroxydicarbonate
- R05153 Diisopropyl peroxydicarbonate**
- R01039 Dilauryl 3,3'-thiodipropionate**
- R24086 Dimethoxy acetophenone (96)**
- R01084 Dimethyl acetamide, N,N-**
- R01067 Dimethyl amine**
- R19266 Dimethyl aminomethyl phenol**
- R00874 Dimethylaminopropylamine**
- R05163 Dimethylaminotoluene, N,N-**
- R01020 Dimethyl aniline, N,N-**
- R05155 Dimethylbenzylamine, N,N-**
- R05156 Dimethyl-2,5-bis(benzoylperoxy)hexane, 2,5-**
 UF Bis(benzoylperoxy)hexane-2,5-dimethyl, 2,5-
- R05157 Dimethyl-2,5-bis(t-butylperoxy)hex-3-yne, 2,5-**
 UF Bis(t-butylperoxy)hex-3-yne, 2,5-dimethyl, 2,5-
- R07250 Dimethyl carbonate**
- R05158 Dimethyl cyclohexylamine, N,N-**
- R03551 Dimethyl-2,5-di-(t-butylperoxy)hexane, 2,5-**
 UF Bis(t-butylperoxy)hexane-2,5-dimethyl, 2,5-
- R05160 Dimethyl-N,N'-dinitrosoterephthalamide, N,N'-**
- R00834 Dimethylethanolamine, N,N-**
- R00278 Dimethyl formamide**
 UF DMF
- R05162 Dimethyl imidazole**
- R01555 Dimethyl isophthalate**
- R00417 Dimethyl sulphate**
 UF Dimethyl sulfate
- R00274 Dimethyl sulphoxide**
 UF Dimethyl sulfoxide
 UF DMSO
- R01002 Dimethyl terephthalate**
- R04321 Di-2,2'-naphthyl-1,4-phenylene diamine, N,N'-**
- R00732 Dinitrosopentamethylene tetramine, N,N'-**
- R05167 Dioctyl maleate**
- R05169 Dioctylsulphosuccinic acid**
 UF Dioctyl sulfosuccinic acid
- R05170 Dioctyl tin dilaurate**

R01057	Dioxane, 1,4-	
R05171	Dipentamethylenethiuram tetrasulphide	
	UF	Dipentamethylenethiuram tetrasulfide
R06918	Diphenyl carbonate	
R05172	Diphenyl disulphide	
	UF	Diphenyl disulfide
R00739	Diphenyl ether	
R00740	Diphenyl guanidine	
R00322	Diphenyl-4-phenylene diamine, N,N'-	
R05175	Diphenyl sulphide	
R06943	Diphenyl sulphone	
R00741	Diphenyl thiourea, sym	
R05176	Dipropylene glycol dibenzoate	
R12182	Dipropylene glycol monomethyl ether	
R05177	Distearyl-pentaerythritol diphosphite	
R05178	Distearylthiodipropionate	
R05183	Dodecenyl succinic anhydride	
R02057	Dodecylbenzenesulphonic acid	
	UF	Dodecylbenzenesulfonic acid
	UF	Laurylbenzene sulfonic acid
	UF	Laurylbenzene sulphonic acid
R01174	Dodecyl sulphuric acid, n-	
	UF	Dodecyl sulfuric acid, n-
	UF	Lauryl sulfuric acid
	UF	Lauryl sulphuric acid
R05184	Dolomite	
	UF	Calcium magnesium carbonate
G2222	Epoxidised vegetable oil	
	UF	Epoxidized vegetable oil
	UF	Epoxidised drying oil
	UF	Epoxidised non-drying oil
G2233	NT	Epoxidised castor oil
G2244	NT	Epoxidised linseed oil
G2255	NT	Epoxidised soybean oil
G2813	Epoxy silanes (gen)	
		"Used when no specific epoxy silane given"
R05188	NT	Ethyl trimethoxy silane, beta-(3,4-epoxycyclohexyl)
R05221	NT	Glycidoxypropyl triethoxysilane, gamma-
R05222	NT	Glycidoxypropyl trimethoxysilane, 3-
G2824	NT	Epoxy silane, other
R05190	Erucamide	
R00245	Ethanol	
	UF	Ethyl alcohol
R00204	Ether	
	UF	Ethyl ether

G2835	Ethoxylated alkyl phenols (gen)	
R16392	NT	Ethoxylated nonyl phenols
R24063	NT	Ethoxylated octyl phenols
	UF	Polyoxyethylene octyl phenol
G2846	NT	Ethoxylated alkyl phenol, other
R01135	Ethyl acetate	
R01381	Ethyl aluminium dichloride	
R05194	Ethyl aluminium sesquichloride	
R05195	Ethyl anisate	
R03172	Ethylanthraquinone, 2-	
R00707	Ethylbenzene	
R00603	Ethyl benzoate	
R03554	Ethyl-3,3-bis(t-butylperoxy)butyrate	
R05198	Ethylene bisstearamide	
R00819	Ethylene diamine	
R00195	Ethylene diamine tetraacetic acid	
	UF	EDTA
R00933	Ethylene glycol diacetate	
R01592	Ethylene glycol diacrylate	
	UF	Glycol diacrylate
R00643	Ethylene thiourea	
	UF	Imidazolidinethione, 2-
R00765	Ethylhexanol, 2-	
R05202	Ethyl imidazole, 2-	
R24018	Ethyl imidazoline, 2-	
G2857	Ethyl magnesium halide	
R05205	Ethyl-4-methylimidazole, 2-	
R05206	Ethyl morpholine, N-	
G2868	Ethyl toluate	
R05208	Ethyl toluene sulphonamide, N-	
	UF	Ethyl toluene sulfonamide, N-
G2879	Feldspar	
	UF	Potassium aluminosilicate
R00001	Formaldehyde	
R01169	Formaldehyde sulphonylic acid	
	UF	Formaldehyde sulfoxylic acid
	UF	Rongalit
R00246	Formic acid	
G4160	Fullerenes (04)	
		"Optionally substituted."
	UF	Nanotubes
	UF	Buckyballs
R00902	Fumaric acid	
R12837	Germanium (II) oxide	
G2880	Glass	
	SA	Glass fibre

G2891	Glass fibre
R09054	Glyceryl-1,3-diacetate UF Diacetin
R03652	Glyceryl-1,3-distearate
R12505	Glyceryl-1-monooleate
R03191	Glyceryl-1-monostearate UF Monostearin
R00744	Glyceryl triacetate UF Triacetin
R05219	Glyceryl tribenzoate
R05220	Glyceryl tristearate UF Tristearin
R00823	Glyoxal
R03080	Gold
R01778	Graphite
R03122	Gypsum UF Calcium sulfate hemihydrate UF Calcium sulphate hemihydrate
R24101	Hafnium dicyclopentadienyl dichloride (04)
R01145	Heptane, n-
R05223	Hexabromobenzene
R04056	Hexabromocyclododecane
R00414	Hexachlorocyclopentadiene
R00515	Hexahydrophthalic anhydride UF Cyclohexane dicarboxylic anhydride
R01455	Hexamethylene diisocyanate UF HMI
R00727	Hexamethylene tetramine UF Hexamine UF Urotropin
R00904	Hexane, n-
R01062	Hexane diamine, 1,6- UF Hexamethylene diamine
R00926	Hexanol
R01208	Hydrazine
R01532	Hydrogen
R01704	Hydrogen chloride
R01732	Hydrogen peroxide
R01041	Hydroquinone
R05274	Hydroquinone t-butyl ether UF Butoxyphenol, 4-
R01173	Hydroquinone methyl ether UF Guaiacol, 4-
R06086	Hydrotalcite UF Aluminium magnesium hydroxide carbonate

- R00253 Hydroxybenzamide, 2-**
UF Salicylamide
- R24102 Hydroxy cyclohexyl phenyl ketone (04)**
- R06722 Hydroxypropyl methyl ether, 2-**
- R01193 Imidazole**
- R03036 Iron**
- R05231 Iron (II) acetylacetonate**
- G2904 Iron chloride (gen)**
"Used when no specific iron chloride given"
- R01939 NT Iron (II) chloride
R04007 NT Iron (III) chloride
- G2915 Iron oxides (gen)**
R03239 NT Iron (III) oxide
R04232 NT Iron oxide (Fe₃O₄)
- G2926 Iron sulphate (gen)**
"Used when no specific iron sulphate given"
UF Iron sulfate (gen)
R01729 NT Iron (II) sulphate
R03295 NT Iron (III) sulphate
- R00355 Isobutane**
- R00431 Isobutanol**
- R03420 Isobutyl aluminium dichloride**
- R05232 Isonicotinamide**
- R01342 Isooctane**
- R00428 Isopentane (96)**
- R00425 Isophorone**
UF Trimethyl-2-cyclohexone, 3,5,5-
- R01624 Isophorone diisocyanate**
UF Trimethyl-1-isocyanatomethyl-5-isocyanatocyclohexane, 1,3,3-
- R01023 Isophthalic acid**
UF Benzene dicarboxylic acid, 1,3-
- R00271 Isopropanol**
UF Isopropyl alcohol
- R00736 Isopropyl-N'-phenyl-4-phenylenediamine, N-**
- R01147 Lauric acid**
UF Dodecanoic acid, n-
- R05235 Lauroyl peroxide**
- R00950 Lauryl alcohol**
- G2937 Lead acetate (gen)**
"Used when no specific lead acetate given"
- R01982 NT Lead (II) acetate
R16194 NT Lead (IV) acetate
- R05236 Lead (II) carbonate (basic)**
- R05237 Lead (II) chromate**
- R06560 Lead molybdate**
- R10803 Lead (II) naphthenate**

R05239	Lead (II) octanoate
G2948	Lead oxides (gen)
R05240	Lead (II) phosphite (dibasic)
R05241	Lead (II) phthalate
R03535	Lead (II) silicate
R05242	Lead (II) stearate
R01676	Lead (II) sulphate UF Lead (II) sulfate
R01833	Lecithin
R01994	Lithium aluminium hydride
R06211	Lithium aluminium silicate
R01679	Lithium chloride
R01513	Lithium hydroxide
R05246	Lithium stearate
R05247	Magnesium
R04953	Magnesium acetate
G2959	Magnesium alkoxide
R01359	Magnesium carbonate
R01801	Magnesium chloride
R05249	Magnesium hydride
R01509	Magnesium hydroxide
R01510	Magnesium oxide UF Magnesia
R01541	Magnesium silicate SA Talc
R01376	Magnesium stearate
R01680	Magnesium sulphate UF Magnesium sulfate
R00901	Maleic acid
R00843	Maleic anhydride
R05250	Malondiamide
R01433	Manganese (II) acetate
R01535	Manganese (II) naphthenate
R05251	Manganese (II) octanoate UF Manganese (II) octoate
R06360	Manganese (II) oxide
R00859	Melamine UF Triamino-s-triazine, 2,4,6-
R08152	Melamine cyanurate (96)
R05252	Menthane hydroperoxide
R01388	Mercaptobenzimidazole, 2- UF Benzimidazole-2-thiol
R01167	Mercaptobenzothiazole, 2- UF MBT

- R00201 Mercaptoethanol**
- G2960 Mercapto silanes (gen)**
 "Used when no specific mercapto silane given"
- R05254 NT Mercaptopropyltrimethoxysilane, 3-
 G2971 NT Mercapto silane, other
- R01565 Mercury (II) acetate**
- G2982 Methacrylato silanes (gen)**
 "Used when no specific methacrylato silane given"
- R05257 NT Methacryloxypropyl trimethoxysilane, 3-
 G2993 NT Methacrylato silane, other
- R00380 Methanesulphonic acid**
 UF Methanesulfonic acid
- R00270 Methanol**
- R05258 Methylbenzoin, alpha-**
- R00888 Methyl cellosolve**
 UF Ethylene glycol monomethyl ether
 UF Methoxyethanol, 2-
- R24043 Methylcyclohexylamine, 4-**
- R05260 Methyl-4-(dimethylaminoethyl)piperazine, 1-**
- R00992 Methylene bis(6-t-butyl-4-cresol), 2,2'-**
- R05261 Methylene bis(4-ethyl-6-t-butyl phenol), 2,2'-**
- R05262 Methylene bis-6-(1-methylcyclohexyl)-4-cresol, 2,2'-**
- R05323 Methylene bis(2-naphthalene sodium sulphonate), 3,3'-**
 UF Methylene bis(2-naphthalene sodium sulfonate), 3,3'-
- R05164 Methylene bis(2-naphthalene sulphonic acid), 3,3'-**
 UF Methylene bis(2-naphthalene sulfonic acid), 3,3'-
- R00437 Methyl ethyl ketone**
 UF MEK
- R13049 Methyl ethyl ketone oxime**
- R01536 Methyl ethyl ketone peroxide**
- R00826 Methyl formate**
- R05362 Methylhydroquinone**
 UF Toluhydroquinone
- R05263 Methyl imidazole, 2-**
- R00836 Methyl isobutyl ketone**
 UF MIBK
- R05264 Methyl isobutyl ketone peroxide**
- G3009 Methyl magnesium halide**
- R05266 Methylmorpholine, N-**
- G0782 Methyl nadic anhydride**
 "All isomers"
- R05268 Methyl-2-pyrrolidone, N-**
 UF NMP
- G0771 Methyl tetrahydrophthalic anhydride**
 "All isomers"
- R05270 Methyl toluate, 3-**

- R00384 Methyltrichlorosilane**
- G3010 Mica**
- R05053 Michler's ketone**
 UF Bis(dimethylamino)benzophenone, 4,4'-
- G3521 Mineral oil (gen) (96)**
 "Only used for general references to mineral oil"
- R07699 Molybdenum (IV) oxide**
- R07035 Molybdenum (IV) sulphide**
 UF Molybdenum (IV) sulfide
- G3021 Monohydroxy benzophenones (gen)**
 "Used when no specific monohydroxy benzophenone given"
- R05226 NT Hydroxy-4-dodecyloxy benzophenone, 2-
- R05227 NT Hydroxy-2-methoxy benzophenone, 2-
- R05228 NT Hydroxy-4-methoxy benzophenone, 2-
- R05229 NT Hydroxy-4-n-octyloxy benzophenone, 2-
- G3032 NT Monohydroxy benzophenone, other
- R16529 Montmorillonite**
- R05179 Morpholine disulphide**
 UF Morpholine disulfide
- R01356 Myristic acid**
- R01094 Nadic anhydride**
 UF Carbic anhydride
- R00578 Naphthalene**
- R05277 Naphthalene-1-acetamide, 2-**
- G1901 Naphthalene diisocyanates (gen)**
 R12045 NT Naphthalene diisocyanate, 1,5-
- R05280 Naphthalene sulphonyl chloride**
 UF Naphthalene sulfonyl chloride
- R01537 Naphthenic acid**
- R01110 Naphthol, 2-**
- R01095 Naphthoquinone, 1,4-**
- G3043 Nickel bis n-octyl phenyl sulphide**
 UF Nickel bis n-octyl phenyl sulfide
- R05282 Nickel dibutyldithiocarbamate**
- R00678 Nicotinamide**
- R01724 Nitric acid**
- R00679 Nitrobenzene**
- R01738 Nitrogen (96)**
- R00369 Nitromethane**
- R05283 Nitrosodiphenyl amine, N-**
- G3532 Nonyl phenol (gen) (96)**
 "Includes all isomers"
- R03140 Octabromodiphenyl ether**
 UF Octabromodiphenyl oxide
- R05285 Octadecyl 3-(3',5'-di-t-butyl-4'-hydroxyphenyl) propionate**
 UF Stearyl 3-(3',5'-di-t-butyl-4'-hydroxyphenyl)propionate

R08433	Octane	
R01061	Octanoic acid, n-	
G4171	Octanols (04)	
R00765	NT	Ethylhexanol, 2-
R05290	Oleamide	
R00954	Oleic acid	
R01152	Oxalic acid	
R05292	Oxybis(benzene sulphonyl hydrazide), 4,4'-	
	UF	Oxybis(benzene sulfonyl hydrazide), 4,4'-
R05293	Oxydiethylenebenzothiazole sulphenamide, N-	
	UF	Oxydiethylenebenzothiazole sulfenamide, N-
	UF	OBS
R01887	Ozone	
R05294	Palladium (II) acetate	
G3474	Paraffin wax	
R05296	Pentabromochlorocyclohexane	
G3076	Pentabromodiphenyl ether	
R05298	Pentabromoethyl benzene	
R00972	Pentaerythritol	
R05422	Pentaerythritol phosphate	
G3087	Pentaerythritol stearates (gen)	
R05424	NT	Pentaerythritol tetrastearate
R05299	Pentaerythritol tetrakis(thioglycolate)	
R00879	Pentane, n-	
G3098	Perlite	
R05301	Phenanthraquinone	
R00868	Phenol	
R00595	Phenothiazine	
R00624	Phenylene diamine, 2-	
R00850	Phenylene diamine, 3-	
R00793	Phenylene diamine, 4-	
R05302	Phenylimidazole, 2-	
R05428	Phenyl indole, N-	
R00568	Phenyl-1-naphthylamine, N-	
R05303	Phenyl salicylate	
R05304	Phenyltetrazole, 5-	
G3101	Phosphonium compounds (gen)	
		"Used when no specific phosphonium compound given"
R05209	NT	Ethyl triphenyl phosphonium acid acetate
R05210	NT	Ethyl triphenyl phosphonium iodide
R05271	NT	Methyl triphenyl phosphonium bromide
R05338	NT	Tetrabutyl phosphonium hydroxide
G3112	NT	Phosphonium compound, other
R01711	Phosphoric acid	
R01734	Phosphorus	

G3123	Phthalic acid esters (gen)	
		"Used when no specific phthalic acid ester given"
R05064	NT	Butyl benzyl phthalate
R05068	NT	Butyl cyclohexyl phthalate
R21696	NT	Butyl phthalyl n-butyl glycolate, n-
R01098	NT	Diallyl phthalate, 1,2-
R05113	NT	Dibutoxyethyl phthalate
R00508	NT	Dibutyl phthalate
R04926	NT	Dicyclohexyl phthalate
R20034	NT	Didecyl phthalate
R00507	NT	Diethyl phthalate
R05145	NT	Dihexyl phthalate
R24044	NT	Diisobutyl phthalate
R09416	NT	Diisodecyl phthalate
R11175	NT	Diisononyl phthalate
R00981	NT	Diisooctyl phthalate
		UF DOP
		UF Bis(2-ethylhexyl) phthalate
G3134	NT	Di(methylcyclohexyl) phthalate
R01097	NT	Dimethyl phthalate
R00509	NT	Dinonyl phthalate
R00982	NT	Di n-octyl phthalate
R05174	NT	Diphenyl phthalate
R05181	NT	Diridecyl phthalate
R05182	NT	Diundecyl phthalate
R05200	NT	Isooctyl benzyl phthalate
		UF Ethylhexyl benzyl phthalate, 2-
R05287	NT	Octyl n-decyl phthalate, n-
G3145	NT	Phthalic acid ester, other
R00554	Phthalic acid	
	UF	Benzene dicarboxylic acid, 1,2-
R00517	Phthalic anhydride	
R00915	Piperazine	
R01844	Polyoxyethyleneglycol lauryl ether	
R24059	Polyoxyethylene sorbitan monolaurate	
	UF	Polysorbate 20
R24080	Polyoxyethylene sorbitan monooleate	
	UF	Polysorbate 80
R05307	Polyoxyethylene sorbitan monopalmitate	
	UF	Tween 40
R24061	Polyoxyethylene sorbitan monostearate	
	UF	Polysorbate 60
R13366	Polyoxyethylene sorbitan trioleate	
R24062	Polyoxyethylene sorbitan tristearate	
R01080	Potassium acetate	
R01749	Potassium bromate	
R01391	Potassium carbonate	
R01815	Potassium fluoride	
R01512	Potassium hydroxide	

R05310		Potassium oleate
R01730		Potassium permanganate
R01737		Potassium persulphate
	UF	Potassium persulfate
R05311		Potassium titanate
R00335		Propane
R00302		Propanol, n-
	UF	Propyl alcohol
R01043		Propionaldehyde
R08574		Propylene glycol monomethyl ether acetate
R00916		Pyridine
R00539		Pyrogallol
	UF	Trihydroxybenzene, 1,2,3-
R00556		Pyromellitic dianhydride
G3156		Quartz
	UF	Sand
	SA	Silicon dioxide
R05313		Resorcinol monobenzoate
R00924		Sebacic acid
G3167		Sebacic acid esters (gen)
		"Used when no specific sebacic acid ester given"
R05057	NT	Bis(2,2,6,6-tetramethyl-4-piperidiny)sebacate
R05114	NT	Dibutoxyethyl sebacate
R04168	NT	Di n-butyl sebacate
R01033	NT	Diisooctyl sebacate
	UF	DOS
	UF	Di(2-ethylhexyl) sebacate
R05168	NT	Di n-octyl sebacate
G3178	NT	Sebacic acid ester, other
R01542		Silicic acid
R01666		Silicon
R01247		Silicon carbide
R01694		Silicon dioxide
	UF	Silica
	SA	Quartz
R03124		Silicon nitride
R05318		Silicon tetrachloride
R05319		Silver
R01081		Sodium acetate
R01333		Sodium benzoate
R01151		Sodium bicarbonate
R01695		Sodium bisulphite
	UF	Sodium bisulfite
	UF	Sodium hydrogensulphite
	UF	Sodium hydrogensulfite
R01997		Sodium borohydride

- R01287 Sodium carbonate**
R01706 Sodium chloride
R05322 Sodium diethyl dithiocarbamate
R05324 Sodium dioctyl sulphosuccinate
 UF Sodium dioctyl sulfosuccinate
R05325 Sodium 4-dodecylbenzene sulphonate
 UF Sodium 4-dodecylbenzene sulfonate
R08974 Sodium formaldehydesulphoxylate
 UF Sodium formaldehydesulfoxylate
R01766 Sodium hydrosulphite
 UF Sodium hydrosulfite
R01514 Sodium hydroxide
R05326 Sodium laurate
 UF Sodium dodecanoate
R05327 Sodium lauryl sulphate
 UF Sodium lauryl sulfate
 UF Sodium dodecyl sulphate
 UF Sodium dodecyl sulfate
R05328 Sodium lauryl sulphonate
 UF Sodium lauryl sulfonate
 UF Sodium dodecyl sulphonate
 UF Sodium dodecyl sulfonate
R01720 Sodium metabisulphite
 UF Sodium metabisulfite
 UF Sodium pyrosulphite
 UF Sodium pyrosulfite
R01068 Sodium methoxide
R01148 Sodium oleate
R05329 Sodium persulphate
 UF Sodium persulfate
R01543 Sodium silicate
R01456 Sodium stearate
R01744 Sodium sulphate
 UF Sodium sulfate
R01518 Sodium sulphide
 UF Sodium sulfide
R01745 Sodium sulphite
 UF Sodium sulfite
R01529 Sodium tetraborate
 UF Borax
R01538 Sorbitan monolaurate
R01540 Sorbitan monooleate
R02049 Sorbitan monopalmitate
R01539 Sorbitan monostearate
R05331 Stearamide
R00122 Stearic acid

R05332	Stearoyl-4-aminophenol, N-	
R00955	Stearyl alcohol	
G3189	Steel	
R00708	Styrene	
R00900	Succinic acid	
R00842	Succinic anhydride	
R00135	Sucrose (96)	
R01076	Sulpholane	
	UF	Sulfolane
R01725	Sulphur	
	UF	Sulfur
R01675	Sulphur trioxide	
	UF	Sulfur trioxide
R01714	Sulphuric acid	
	UF	Sulfuric acid
G3190	Talc	
	SA	Magnesium silicate
R20197	Tantalum pentachloride	
R00540	Tartaric acid	
R00702	Terephthalic acid	
	UF	Benzene dicarboxylic acid, 1,4-
R03113	Tetrabromobisphenol A, 3,3',5,5'-	
	UF	Bis(3,5-dibromo-4-hydroxyphenyl) propane, 2,2-
G3203	Tetrabromobisphenol A bis(dibromopropyl ether)	
R05336	Tetrabromophthalic anhydride	
R05337	Tetrabutyl ammonium hydroxide	
R00986	Tetrachloro-4-benzoquinone	
G3214	Tetrachloroethanes (gen)	
		"All isomers"
R05339	Tetrachlorophthalic anhydride	
R01558	Tetracyanoquinodimethane	
R06010	Tetraethoxysilane	
	UF	Tetraethyl silicate
R00934	Tetraethylenepentamine	
R05340	Tetraethyl ethylene diamine	
G3225	Tetrahydrocarbyl ammonium halides (gen)	
R05345	NT	Tetramethyl ammonium chloride
R00895	Tetrahydrofuran	
	UF	THF
R05342	Tetrahydrophthalic acid	
R00516	Tetrahydrophthalic anhydride	
R05343	Tetrakis(2,4-di t-butylphenyl)-4,4'-biphenylene-diphosponite	

- R05344 Tetrakis(methylene 3-(3',5'-di t-butyl-4'-hydroxyphenyl)propionate)methane**
 UF Irganox 1010
 UF Pentaerythritol tetrakis(3,5-di-t-butyl-4-hydroxy hydrocinnamate)
 UF Pentaerythritol tetrakis(3-(3',5'-di-t-butyl-4'-hydroxyphenyl)propionate)
 UF Tetrakis(3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate)pentaerythritol
 UF Tetrakis(methylene (3,5-di-t-butyl-4-hydroxy-hydrocinnamate))methane
- R04510 Tetramethoxy silane**
- R04571 Tetramethyl ammonium hydroxide**
- G3236 Tetramethyl ammonium ion**
- R05346 Tetramethyl-1,3-butanediamine, N,N,N',N'-**
- R05347 Tetramethylethylenediamine**
- R05348 Tetramethyl guanidine**
- R00655 Tetramethylthiuram monosulphide**
 UF Tetramethylthiuram monosulfide
- R00646 Thiobis(2-t-butyl-5-methyl phenol), 4,4'-**
- R05349 Thiodipropionic acid**
- R00277 Thioglycolic acid**
 UF Mercaptoacetic acid, 2-
- R05253 Thioglycolic-beta-aminonaphthalide**
- R01727 Thionyl chloride**
- G3247 Thiuram disulphides (gen)**
 "Used when no specific thiuram disulphide given"
 UF Thiuram disulfides (gen)
- R00656 NT Tetraethylthiuram disulphide
- R01115 NT Tetramethylthiuram disulphide
 UF Thiram
 UF Thiuram
- G3258 NT Thiuram disulphide, other
- G3269 Tin chlorides (gen)**
 "Used when no specific tin chloride given"
- R03040 NT Tin (II) chloride
- R01701 NT Tin (IV) chloride
- R05350 Tin (II) octanoate**
- R05351 Tin (IV) oleate**
- G3270 Tin oxides (gen)**
 "Used when no specific tin oxide given"
- R06013 NT Tin (II) oxide
- R01531 NT Tin (IV) oxide
- R05352 Tin (IV) thioglycolate**
- G3054 Titanates, organic (gen)**
 "Used when no specific organo titanate given. Compounds of the structure Ti-O-R."
- R04589 NT Isopropyl triisostearyl titanate
- R01644 NT Titanium tetrabutoxide
- R05354 NT Titanium tetraethoxide
- R05355 NT Titanium tetra(2-ethylhexoxide)
- R05356 NT Titanium tetraisopropoxide
- R05357 NT Titanium tetra n-propoxide
- G3065 NT Titanate, organic other

G3281	Titanium chlorides (gen)		
		"Used when no specific titanium chloride given"	
R05353	NT	Titanium tetrachloride	
R05358	NT	Titanium trichloride	
R24103	Titanium dicyclopentadienyl dichloride (04)		
R01966	Titanium oxide		
R00862	Toluene		
G1912	Toluene diisocyanates (gen)		
		"Used when no specific isomer given"	
	UF	TDI	
R01392	NT	Toluene diisocyanate, 2,4-	
	UF	TDI, 2,4-	
R00574	NT	Toluene diisocyanate, 2,6-	
	UF	TDI, 2,6-	
R05359	Toluene ethyl sulphonamide		
	UF	Toluene ethyl sulfonamide	
R00301	Toluene sulphonamide, 4-		
	UF	Toluene sulfonamide, 4-	
R00760	Toluene sulphonic acid		
	UF	Toluene sulfonic acid	
R05360	Toluene sulphonyl hydrazide, 4-		
	UF	Toluene sulfonyl hydrazide, 4-	
R05361	Toluene sulphonyl semicarbazide, 4-		
	UF	Toluene sulfonyl semicarbazide, 4-	
R05363	Toluquinone		
R05364	Triallyl cyanurate		
R00733	Triallyl isocyanurate		
	UF	Triallyl isocyanuric acid, N,N',N''-	
G3292	Tri(bromocresyl)phosphate		
		"All isomers"	
G3305	Tribromophenol		
		"All isomers"	
R05367	Tributoxyethyl phosphate		
R05369	Tributyl phosphine		
R05368	Tributylamine		
R00395	Trichloroacetic acid		
R00307	Trichloroethane, 1,1,1-		
R00441	Trichloroethylene		
R05370	Tri(chloroethyl)phosphate		
R00375	Trichloromonofluoromethane		
R00398	Trichloro-1,2,2-trifluoroethane		
G3316	Tricresyl phosphite		
R05372	Tri(dibromopropyl)phosphate		
R05373	Tri(2,4-di t-butylphenyl)phosphite		
R05374	Tri(dichloropropyl)phosphate		
R05375	Tri(dimethylaminoethyl)phenol		

- R03345** Tri(dimethylaminomethyl)phenol, 2,4,6-
- R05377** Tridodecyl phosphite
- R00743** Triethanolamine
- R00659** Triethyl aluminium
- R01013** Triethyl amine
- R01188** Triethylene diamine
 UF Diazabicyclo(2.2.2) octane, 1,4-
- R05378** Triethylene glycol dimethacrylate
- R00925** Triethylene tetramine
- R00396** Trifluoroacetic acid
- R06214** Trifluoromethane sulphonic acid
 UF Trifluoromethane sulfonic acid
- R05380** Trihydrazino triazine
- G3327** Trihydrocarbyl phosphates (gen)
 "Used when no specific trihydrocarbyl phosphate given"
- G3338 NT Cresyl diphenyl phosphate
- R05288 NT Diphenyl n-octyl phosphate
- R05201 NT Isooctyl diphenyl phosphate
 UF Ethylhexyl diphenyl phosphate, 2-
- R05233 NT Isopropylphenyl diphenyl phosphate
- R01077 NT Tri n-butyl phosphate
- R00423 NT Tricresyl phosphate
- G3349 NT Tri(dimethylphenyl) phosphate
- R00424 NT Triethyl phosphate
- R05379 NT Triisooctyl phosphate
 UF Tri(2-ethylhexyl) phosphate
- G3350 NT Tri (Isopropylphenyl) phosphate
- R01309 NT Trimethyl phosphate
- R05391 NT Tri n-octyl phosphate
- R00973 NT Triphenylphosphate
- G3361 NT Tri n-propylphenyl phosphate
- G3372 NT Trihydrocarbyl phosphate, other
- R00728** Triisobutyl aluminium
- R05383** Triisooctyl phosphite
- G3383** Trimellitic acid esters (gen)
 "Used when no specific trimellitic acid ester given"
- R05382 NT Triisodecyl trimellitate
- R05384 NT Triisooctyl trimellitate
- R05392 NT Tri n-octyl trimellitate
- G3394 NT Trimellitic acid ester, other
- R01363** Trimellitic anhydride
- R00352** Trimethyl aluminium
- R00368** Trimethyl amine
- R05388** Trimethylolpropane triacrylate
- R05389** Trimethylolpropane trimethacrylate
- R09477** Tri(nonylphenyl)phosphite
- R05393** Triphenyl aluminium

R01408	Triphenylphosphine	
R05423	Triphenylphosphine oxide	
R00729	Triphenylphosphite	
G3407	Tris(dialkylaminoalkyl)hexahydrotriazine, N,N',N''-	
R05429	Tris(hydroxyethyl)isocyanurate	UF Tris(2-hydroxyethyl)-s-triazine-2,4,6-trione, 1,3,5-
R06087	Tungsten hexachloride	
R00123	Urea	
R01929	Vanadium (III) chloride	
R16384	Vanadium naphthenate	
R02075	Vanadium oxychloride	UF Vanadyl chloride
G2186	Vegetable oil	
		UF Drying oil
		UF Non-drying oil
G2197		NT Castor oil
G2200		NT Linseed oil
G2211		NT Soybean oil
G0691	Vinyl silanes monoolefinic (gen)	
		"Used when no specific vinyl silane given"
R05399		NT Vinyl triacetoxo silane
R00390		NT Vinyl trichloro silane
R05400		NT Vinyl triethoxy silane
R05402		NT Vinyl trimethoxy silane
R05401		NT Vinyl tris(2-methoxyethoxy) silane
G0704		NT Vinyl silane monoolefinic, other
R01740	Water	
G3418	Wollastonite	SA Calcium silicate
G3429	Wood	
G3430	Xylenes	
		"All isomers"
G3441	Zeolites(gen)	
R05406	Zinc acetate	
R05407	Zinc acetylacetonate	
R03130	Zinc borate	
R05410	Zinc carbonate	
R01703	Zincchloride	
R10007	Zinc diacrylate (96)	
R24057	Zinc dibutyl dithiocarbamate	
R05412	Zinc diethyl dithiocarbamate	
R01116	Zinc dimethyl dithiocarbamate	
R05413	Zinc fluoroborate	
R05414	Zinc mercaptobenzothiazole	
R10802	Zinc naphthenate	

- R05416 Zinc octoate**
 UF Zinc octanoate
- R01520 Zinc oxide**
- R05420 Zinc phosphate**
- R05421 Zinc phosphite**
- R01377 Zinc stearate**
- R01525 ZinCSulphide**
 UF Zinc sulfide
- R01885 Zirconium(IV) chloride**
- R24104 Zirconium dicyclopentadienyl dichloride (04)**
- R01521 Zirconium(IV) oxide**

Chemical Aspects

The Chemical Aspects can be used to define a compound chemically, for those cases where no specific concept is available. The Chemical Aspects can also be linked to generic codes and Polymer Type codes to define the compound further.

The Chemical Aspects consist of general terms, specific functionality terms which include the acid derivative terms, and the whole of the periodic table. The Acid Derivative terms provide more specific treatment of residues of common di- and poly- functional acid condensants. This is useful because it is often possible to tell, for example, that a terephthalic acid derivative has been used as a polymer former without knowing whether it is the free acid, the dimethyl ester or some other derivative. Graphical definitions of the specific functionality terms can be found in the Polymer Indexing Reference Manual.

All the Specific Compound Numbers and the generic codes in the Polymer Formers and Chemicals facets autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out, for example, an organic phosphorus ester containing chlorine. For a complete list of autogenerated Chemical Aspects see the Polymer Indexing Reference Manual.

All the element symbols represent codes, the single character elements having a '-' added to make them 2 characters e.g. "B-". Codes have been incorporated for general metal, transition metal and for each group of the periodic table. This will improve the specificity of the element codes, since they will only be indexed for the element, and not when only the group is claimed or exemplified.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Transition metals are defined as follows:-

Ac, Ag, Am, Au, Bk, Cd, Ce, Cf, Cm, Co, Cr, Cu, Dy, Er, Es, Eu, Fe, Fm, Gd, Hf, Hg, Ho, Ir, La, Lu, Lw, Md, Mn, Mo, Nb, Nd, Ni, No, Np, Os, Pa, Pd, Pm, Pr, Pt, Pu, Re, Rh, Ru, Sc, Sm, Ta, Tb, Tc, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr.

Indexing Conventions:

Chemical Aspects applied to a compound should cover the whole compound, including Carbon Count. However, if the valency of the element in a salt/complex is not known, then no Carbon Count will be applied.

For inorganic compounds, the code for inorganic, elements and the appropriate functionality terms will be applied. The term for 'salt' will NOT be applied to inorganic salts.

For organic compounds, no C or H element codes will be applied.

Aromatic is defined as carbocyclic, optionally fused and containing at least one benzene ring.

Concepts for C-C unsaturation do not include aromatic unsaturation.

The aspect Diolefinic implies that a compound contains 2 double bonds not necessarily polymerisable e.g. furan. The generic code G0817 Diolefinic and its specific terms within the hierarchy from the Polymer Formers facet are used to imply 2 polymerisable double bonds.

Chemical Aspects

General Terms:

D00	Inorganic
D01	Organic
D02	Hydrocarbon
D03	Stereochemistry
D04	Isotope
D05	Bridged ring
D06	Spiro
D07	Tricyclic ring system "Only applied to fused ring systems."
D08	Tetracyclic ring system and higher "Only applied to fused ring systems."
D09	Elemental state

Generic Sub-units:

"When applied to fused ring systems these aspects are applied hierarchically as follows: Heterocyclic; Aromatic; Alicyclic."

D10	Aliphatic
D11	NT Saturated chain
D12	NT Unsaturated chain
D26	NT Acrylic (96)
D27	NT Allyl (96)
D13	Alicyclic
D14	NT Monocyclic alicyclic
D15	NT Cyclopentadienyl
D16	NT Bicyclic alicyclic
D17	NT Polycyclic alicyclic
D38	NT Adamantyl (04)
D39	NT Dicyclopentadienyl (04) "3 ring alicyclic bridged ring."
D18	Aromatic
	"Carbocyclic, optionally fused, containing at least one benzene ring."
D19	NT Benzene
D20	NT Naphthalene
D21	NT Polycyclic aromatic
D100	NT Indenyl (04) "Bicyclic aromatic"
D80	NT Fluorenyl (04) "Tricyclic aromatic"
D22	Heterocyclic
D23	NT Monocyclic heterocyclic
D24	NT Bicyclic heterocyclic
D25	NT Polycyclic heterocyclic

Number of rings:

"Applied for the number of rings, regardless of type e.g. isolated, fused."

D31	1 Ring	
D32	2 Rings	
D33	3 Rings	
D34	4 Rings	
D35	≥5 Rings	
D96	NT	5 rings (04)
D97	NT	6 rings (04)
D98	NT	7 rings (04)
D99	NT	≥8 rings (04)

Number of Atoms in Ring:

"Applied to individual rings or fused ring system. For example ethylene oxide is a 3-member ring, naphthalene is a 10-member ring, phthalic anhydride is a 9-member ring."

D73	3-member ring (96)
D74	4-member ring (96)
D75	5-member ring (96)
D76	6-member ring (96)
D77	7- 9 member ring (96)
D78	10-12 member ring (96)
D79	>12-member ring (96)

Atoms in Ring Systems:

D40	Ring contg no C
D41	Ring contg 1 N
D42	Ring contg 1 O
D43	Ring contg 1 S
D36	Ring contg 1 Si (96)
D44	Ring contg ≥1 P
D45	Ring contg >1 N
D46	Ring contg >1 O
D47	Ring contg >1 S
D37	Ring contg >1 Si (96)
D48	Ring containing other element "Other than P, N, O, S, Si, C"

C–C Unsaturation:

D50	No Unsaturation "Absence of olefinic or acetylenic unsaturation"
D51	Unsaturation containing
D52	NT Acetylenic unsaturation
D53	NT Monoolefinic unsaturation

D54	NT	Diolefinic unsaturation
D55	NT	Triolefinic unsaturation and higher
D56		Conjugated unsaturation
D57		Nonconjugated unsaturation
D58		Terminal olefin unsaturation
D59		Internal olefin unsaturation

Broad Functionality Types:

D60	Acid	
	SA	Carboxylic acid
D61	Salt/Complex	
		"Can be used with other aspects e.g. with phenolic for phenolates, with amine for amine salts"
D62	NT	Metallocene
D72	NT	Bridged metallocene (04)
D63	Ester	
	SA	Carboxylic ester
D64	Acid halide	
	SA	Carboxylic acid halide
D65	Acid anhydride	
	SA	Carboxylic anhydride
D66	Radical	
D67	Base	
	UF	Alkali
D49	Lewis acid (96)	
D68	Metal-C	
		"Metal excludes Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
D69	Halogen-C	
D70	Halogen-Metal	
		"Metal excludes Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
D71	Hydrogen-Metal	
		"Metal excludes Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

Carbon Count:

D81	Carbon count 1 C
D82	Carbon count 2 C
D83	Carbon count 3 C
D84	Carbon count 4 C
D85	Carbon count 5 C
D86	Carbon count 6 C
D87	Carbon count 7 C
D88	Carbon count 8 C
D89	Carbon count 9 C
D90	Carbon count 10 C
D91	Carbon count 11 C

D92	Carbon count 12 C
D93	Carbon count 13 C-18 C
D94	Carbon count 19 C-24 C
D95	Carbon count ≥ 25 C
D28	NT 25-30C (04)
D29	NT 31-40C (04)
D30	NT ≥ 41 C (04)

Specific Functionality Terms Acid Derivatives

E00	Diacyl-	
E01	NT	Malei-
E02	NT	Fumari-
E03	NT	Itaconi-
E04	NT	Citraconi-
E05	NT	Tetrahydrophthali-
E06	NT	Methyl tetrahydrophthali-
E07	NT	Nadi-
E08	NT	Methyl nadi-
E09	NT	Chlorendi-
E10	NT	Oxali-
E11	NT	Succini-
E12	NT	Glutari-
E13	NT	Adipi-
E14	NT	Pimeli-
E15	NT	Suberi-
E16	NT	Azelai-
E17	NT	Sebaci-
E18	NT	Dodecanedioi-
E19	NT	Phthali-
E20	NT	Isophthali-
E21	NT	Terephthali-
E22	NT	Naphthalene diacyl-
E23	NT	Sulphoisophthali-
E24	NT	Hexahydrophthali-
E25	NT	Methylhexahydrophthali-
E26	NT	Tetrabromophthali-
E27	NT	Tetrachlorophthali-
E28	NT	Diacyl-, other
E30	Polyacyl-	
E31	NT	Trimelliti-
E32	NT	Pyromelliti-
E33	NT	Benzophenone tetracarboxylic derivatives
E34	NT	Biphenyl tetracarboxylic derivatives
E36	NT	Oxydiphthali- (96)
E37	NT	Hexafluoroisopropylidene diphthali- (96)
E35	NT	Polyacyl-, other

S:

F00	Sulphide "-S-"
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F01	Disulphide "-S-S-"
F02	Trisulphide and higher "-(S) _n -"
F03	Episulphide
F04	Thiol UF Mercaptan
F05	Thiocarboxylate UF Dithiocarboxylate
F06	Thiocarbonate UF Dithiocarbonate UF Trithiocarbonate

N:

F07	Amine
F08	NT Monoamine
F09	NT Diamine
F10	NT Triamine and higher
F11	Hydrazine UF Hydrazide
F12	Cyano UF Nitrile
F13	Azo UF Diazo
F14	Azide
F15	Imine
F16	Quaternary nitrogen
F17	Amidine
F18	Guanidine
F19	Triazinyl
F96	Carbodiimide (96)
F97	Aziridine (96)
F98	Diazide (96)
F99	Phthalocyanine (96)

O:

F20	Oxide
F21	Hydroxide
F22	Aldehyde
F23	Ketone
F24	Acetal UF Ketal
F25	Ketene

F26	Alcohol	
		"Excluding phenolic"
F27	NT	Monoalcohol
F28	NT	Dihydroxy alcohol
F29	NT	Trihydroxy alcohol and higher
F30	Phenolic	
F31	NT	Monophenol
F32	NT	Diphenol
F33	NT	Triphenol and higher
F34	Ether	
F35	Carboxylic acid (salt)	
	UF	Carboxylic acid salt
F36	NT	Monocarboxylic acid
	UF	Monocarboxylic acid salt
F37	NT	Dicarboxylic acid
	UF	Dicarboxylic acid salt
F38	NT	Tricarboxylic acid and higher
	UF	Tricarboxylic acid salt and higher
F39	Carboxylic anhydride	
F40	Carboxylic acid halide	
F41	Carboxylic ester	
		"Acyclic C-O bond only"
F89	NT	Monocarboxylic ester (96)
F90	NT	Dicarboxylic ester (96)
F91	NT	Tricarboxylic ester and higher (96)
	SA	Lactone
F42	Percarboxylate ester	
F43	Lactone	
F44	Carbonate	
F45	Percarbonate	
F46	Percarboxylic acid	
F47	Epoxide	
	UF	Oxirane
F48	Peroxide	
	UF	Peroxy
F49	Haloformate (96)	

P:

F50	Phosphine
F51	Phosponium

PO/S:

F52	Phosphite
F53	Phosphate
F54	Phosphonate
F55	Thiophosphate
	UF Dithiophosphate

- F56 Thiophosphonate**
 UF Dithiophosphonate
 UF Trithiophosphonate

SO:

- F60 Sulphate**
 UF Sulphuric
- F61 Sulphonyl**
- F62 Sulphonic**
 UF Sulphonate
- F63 Sulphoxide**

SN:

- F64 Sulphonamide**
- F65 Sulphenamide**
- F66 Isothiocyanate**
- F67 Thiourethane**
- F68 Thiourea**

NO:

- F70 Carboxylic amide**
 "Acyclic C-N bond only"
- F93 NT Monocarboxylic amide (96)
- F94 NT Dicarboxylic amide (96)
- F95 NT Tricarboxylic amide and higher (96)
- SA Lactam
- F71 Lactam**
- F72 Imide**
- F73 Isocyanate**
- F57 NT Monoisocyanate (04)
- F58 NT Diisocyanate (04)
- F59 NT Tri or higher isocyanate (04)
- F74 Cyanate**
- F75 Nitro**
- F76 Hydroxylamine**
- F77 Urethane**
- F78 Urea**
- F79 Nitroso (96)**
- F92 Oxime (96)**
- F69 Oxime O-ether (04)**
 "=C=N-O-C! Non-functional C-bonded oxime"
- F100 Amine oxide (04)**
 "R₃N-O"

Si:

F80	Silicate
F81	Si-O-Si
F82	Si-N-Si
F83	Si-H
F84	Si-OH
F85	Si-Halogen
F86	Si-C
F87	Si-O-C
F88	Si-Si (96)

Periodic Table:

H-	Hydrogen
1A	Group 1A
	"Li, Na, K, Rb, Cs, Fr"
	UF Alkali metals
Li	NT Lithium
Na	NT Sodium
K-	NT Potassium
Rb	NT Rubidium
Cs	NT Cesium
Fr	NT Francium
2A	Group 2A
	"Be, Mg, Ca, Sr, Ba, Ra"
	UF Alkaline earth metals
Be	NT Beryllium
Mg	NT Magnesium
Ca	NT Calcium
Sr	NT Strontium
Ba	NT Barium
Ra	NT Radium
3A	Group 3A
	"B, Al, Ga, In, Tl"
B-	NT Boron
Al	NT Aluminium
Ga	NT Gallium
In	NT Indium
Tl	NT Thallium
4A	Group 4A
	"C, Si, Ge, Sn, Pb"
C-	NT Carbon
Si	NT Silicon
Ge	NT Germanium
Sn	NT Tin
Pb	NT Lead

5A	Group 5A	
		"N, P, As, Sb, Bi"
N-	NT	Nitrogen
P-	NT	Phosphorus
As	NT	Arsenic
Sb	NT	Antimony
Bi	NT	Bismuth
6A	Group 6A	
		"O, S, Se, Te, Po"
O-	NT	Oxygen
S-	NT	Sulphur
Se	NT	Selenium
Te	NT	Tellurium
Po	NT	Polonium
7A	Group 7A	
		"F, Cl, Br, I, At"
	UF	Halogens
F-	NT	Fluorine
Cl	NT	Chlorine
Br	NT	Bromine
I-	NT	Iodine
At	NT	Astatine
00	Group 0	
		"He, Ne, Ar, Kr, Xe, Rn"
He	NT	Helium
Ne	NT	Neon
Ar	NT	Argon
Kr	NT	Krypton
Xe	NT	Xenon
Rn	NT	Radon
3B	Group 3B	
		"Sc, Y"
Sc	NT	Scandium
Y-	NT	Yttrium
4B	Group 4B	
		"Ti, Zr, Hf "
Ti	NT	Titanium
Zr	NT	Zirconium
Hf	NT	Hafnium
5B	Group 5B	
		"V, Nb, Ta"
V-	NT	Vanadium
Nb	NT	Niobium
Ta	NT	Tantalum
6B	Group 6B	
		"Cr, Mo, W"
Cr	NT	Chromium
Mo	NT	Molybdenum
W-	NT	Tungsten

7B**Group 7B**

"Mn, Tc, Re"

Mn	NT	Manganese
Tc	NT	Technetium
Re	NT	Rhenium

8B**Group 8B**

"Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt"

Fe	NT	Iron
Ru	NT	Ruthenium
Os	NT	Osmium
Co	NT	Cobalt
Rh	NT	Rhodium
Ir	NT	Iridium
Ni	NT	Nickel
Pd	NT	Palladium
Pt	NT	Platinum

1B**Group 1B**

"Cu, Ag, Au"

Cu	NT	Copper
Ag	NT	Silver
Au	NT	Gold

2B**Group 2B**

"Zn, Cd, Hg"

Zn	NT	Zinc
d	NT	Cadmium
Hg	NT	Mercury

9A**Group 9A**

	UF	Lanthanides
La	NT	Lanthanum
Ce	NT	Cerium
Pr	NT	Praseodymium
Nd	NT	Neodymium
Pm	NT	Promethium
Sm	NT	Samarium
Eu	NT	Europium
Gd	NT	Gadolinium
Tb	NT	Terbium
Dy	NT	Dysprosium
Ho	NT	Holmium
Er	NT	Erbium
Tm	NT	Thulium
Yb	NT	Ytterbium
Lu	NT	Lutetium

9B**Group 9B**

	UF	Actinides
Ac	NT	Actinium
Th	NT	Thorium
Pa	NT	Protactinium
U-	NT	Uranium
Np	NT	Neptunium
Pu	NT	Plutonium

Am	NT	Americium
Cm	NT	Curium
Bk	NT	Berkelium
Cf	NT	Californium
Es	NT	Einsteinium
Fm	NT	Fermium
Md	NT	Mendelevium
No	NT	Nobelium
Lw	NT	Lawrencium

Tr Transition metal

"Transition metals are defined as follows:- Ac, Ag, Am, Au, Bk, Cd, Ce, Cf, Cm, Co, Cr, Cu, Dy, Er, Es, Eu, Fe, Fm, Gd, Hf, Hg, Ho, Ir, La, Lu, Lw, Md, Mn, Mo, Nb, Nd, Ni, No, Np, Os, Pa, Pd, Pm, Pr, Pt, Pu, Re, Rh, Ru, Sc, Sm, Ta, Tb, Tc, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr."

Gm Metal general

"Metal is defined as excluding the following:- Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

Novelty Descriptors

The concepts in this facet are designed to indicate the main area(s) of the invention covered by the patent.

At least one Novelty Descriptor code will be applied to each patent, but there is no limit as to how many may be applied.

The format of the Novelty Descriptors codes is NDnn.

Novelty Descriptors

- ND00 Additive**
 "Used when an additive for a polymer is the novelty of the invention"
- ND01 Application**
 "Used when the use of a polymer is the novelty of the invention"
- ND02 Catalyst**
 "Used when a catalyst is the novelty of the invention"
- ND03 Chemical process**
 "Used when a chemical process is the novelty of the invention"
 UF Polymerisation process
- ND04 Composition**
 "Used when a new polymer or polymer composition is the novelty of the invention"
 UF Novel polymer
- ND05 Equipment**
 "Used when equipment for processing polymer, additive or catalyst is the novelty of the invention"
- ND06 Modified polymer**
 "Used when a modified polymer is the novelty of the invention"
- ND07 Physical operation**
 "Used when a physical operation is the novelty of the invention"
- ND08 Polymer former**
 "Used when a polymer former (monomer or condensant) is the novelty of the invention"
 UF Monomer
- ND09 Property**
 "Used when a property is the novelty of the invention"
- ND10 Shape or form**
 "Used when shape or form of polymer, additive or catalyst is the novelty of the invention"

Universal Terms

The concepts in this facet are general, non-chemical terms which can be used in combination with any other term(s) to define a concept further. Thus, the radiation codes can be used with, for example, a crosslinking process, a polymerisation process, welding process or protective clothing to give a wide range of searchable concepts.

The concepts are arranged alphabetically and the format of the codes is Knnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Radiation which has been indexed should be searched using K9790-R. Searching K9790 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet, have the facet indicated in brackets after the term.

The concepts in the Interface hierarchy are used, for example, with the coating terms and for laminates, but not for the interface between polymer and additive.

The Reinforced concept is used for compositions, moulded articles etc., which are reinforced by addition of reinforcing agent(s) or reinforced by design.

Universal Terms

- K9370 Ambient temperature**
 UF Room temperature
 SA High temperature
 SA Low temperature
- K9961 Amphoteric (96)**
- K9381 Anisotropic**
 SA Optically anisotropic [*properties*]
- K9392 Continuous**
- K9405 Corrugated**
- K9416 Design feature**
- K9427 Electric discharge**
 UF Corona discharge
 UF Glow discharge
 UF Plasma
- K9438 Engineering resin**
- K9449 Filled resin**
- K9972 Fluidised bed (96)**
- K9450 High pressure**
 "Higher than 500 atmospheres"
 SA Low pressure
 SA Vacuum
- K9461 High temperature**
 SA Ambient temperature
 SA Low temperature
- K9983 Honeycomb (96)**
 "Used when a honeycomb structure is present though not necessarily polymeric e.g. laminate containing graphite honeycomb core"
- K9472 In-situ**
- K9483 Interface**
 "Surface on which a polymer is coated or face adjacent to polymer in a laminate or moulded article. Not used for interface between polymer and additive"
- K9494 NT Ceramics interface
 UF Porcelain interface
- K9507 NT Composite board interface
 UF Chipboard interface
 UF Fibreboard interface
 UF Hardboard interface
 UF Plywood interface
- K9994 NT Concrete interface (96)
- K9518 NT Fabric interface
 UF Fibre interface
 SA Glass fabric interface
- K9529 NT Glass interface
 SA Glass fabric interface
- K9530 NT Glass fabric interface
 UF Glass fibre interface
- K9541 NT Leather interface

K9552	NT	Metal interface "Including pre-treated metal"
	SA	Wire interface
K9563	NT	Paper interface
K9574	NT	Polymer interface
K9585	NT	Silicon interface "Including pre-treated and doped silicon"
K9596	NT	Wire interface
	SA	Metal interface
K9609	NT	Wood interface
	UF	Plywood interface
	UF	Wood veneer interface
K9610	NT	Interface, other
K9621	Ionic	
		"Used when stated"
K9632	NT	Anionic
K9643	NT	Cationic
K9303	NT	Zwitterionic (96)
	SA	Non-ionic
K9314	Isotropic (96)	
K9654	Low pressure	
	SA	High pressure
	SA	Vacuum
K9665	Low temperature	
	UF	Cold
	SA	Ambient temperature
	SA	High temperature
K9676	Multilayer structure	
		"Including non-polymeric layers"
K9687	NT	Bi-layer structure
K9698	NT	Tri-layer structure
K9701	NT	Tetra-layer (or greater) structure
K9712	NT	Polymeric exterior layer
K9723	Multistage	
		"A single processing step in several stages e.g. multistep injection moulding; but not forming a parison and then blow moulding"
K9325	Non-ionic (96)	
	SA	Ionic
K9734	Polar	
		"Used when stated"
	SA	Bond properties <i>[properties]</i>
K9745	Polymer blend	
	UF	Blend of polymers
	UF	Mixture of polymers
	UF	Polymer alloy
K9756	NT	Compatible polymer blend
K9767	NT	Interpenetrating polymer network
	UF	Snake-cage polymers
K9778	NT	Incompatible polymer blend

K9789 Prepreg
K9790 Radiation

- K9803 NT Ionising radiation
 "Used for alpha-, beta-, gamma-rays and electron or neutron bombardment"
- K9814 NT Electron beam
- K9336 NT Gamma radiation (96)
 "Approximate wavelength range: 5×10^{-14} - 10^{-11} m."
- K9825 NT X-rays
 "Approximate wavelength range: 5×10^{-12} - 10^{-8} m."
- K9836 NT I R radiation
 "Approximate wavelength range: 7.8×10^{-7} - 10^{-3} m."
 UF Infra red radiation
- K9847 NT Light radiation
- K9858 NT Laser radiation
- K9869 NT U V radiation
 "Approximate wavelength range: 10^{-8} - 3.8×10^{-7} m."
 UF Ultra violet radiation
 UF UV radiation
- K9870 NT Visible light radiation
 "Approximate wavelength range: 3.8×10^{-7} - 7.8×10^{-7} m."
- K9347 NT Radio frequency (96)
 "Approximate wavelength range: 10^{-5} - 10^{-3} m."
 UF R F
- K9881 NT Microwave
 "Approximate wavelength range: 10^{-3} - 0.3 m."

K9892 Reinforced
K9905 Safety

- SA Protective clothing *[applications]*
 SA Toxicity to humans *[properties]*

K9916 Synergism
K9927 Texture
K9938 Ultrasonic wave
K9949 Vacuum

- SA High pressure
 SA Low pressure

K9950 Waste material

- "Used for non re-usable polymeric and non-polymeric material"
 UF By-products
 UF Non polymeric residue
 UF Vat residues

Shape & Form

The Shape & Form terms can be applied to polymers, additives, catalysts and modifying agents. The hierarchies in this facet are arranged alphabetically and the format of the codes is Snnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Fibre which has been coded should be searched using S1070-R. Searching S1070 will retrieve all references - indexed and autoposted.

A special generic code, S9999, will be present in the online record whenever a Shape & Form code has been applied. This enables you to search for the presence of a Shape & Form code without specifying the type of shape or form.

Shape & Form

S1003	Cord	
	UF	Rope
S1014	Dispersion	
S1025	NT	Emulsion
	UF	Aqueous dispersion
	UF	Latex
	UF	Oil-in-water dispersion
S1036	NT	Organosol
		"Stable dispersion of polymer in non-aqueous medium"
S1047	NT	Paste
		"Stable dispersion of polymer in plasticiser"
	UF	Plastisol
S1058	NT	Slurry
		"Unstable dispersion"
S1069	NT	Water-in-oil dispersion
S1070	Fibre	
	UF	Yarn
S1081	NT	Braided fibre
S1092	NT	Chopped fibre
	UF	Short fibre
	UF	Staple fibre
S1105	NT	Conjugate fibre
	UF	Bicomponent fibre
	UF	Composite fibre
	UF	Heterofilament
	UF	Island-in-sea fibre
	UF	Side-by-side fibre
S1116	NT	Sheath-core fibre
		"Both sheath and core components must be polymeric"
S1127	NT	Core of sheath-core fibre
S1138	NT	Sheath of sheath-core fibre
S1149	NT	Continuous fibre
	UF	Filament
	UF	Long fibre
S1150	NT	Elastic fibre
	UF	Lycra
	UF	Spandex
S1161	NT	Fabric
		"Filament terms only used in addition when type of fibre is important"
S1172	NT	Knitted fabric
S1183	NT	Non-woven fabric
	UF	Felts
S1194	NT	Woven fabric
S1694	NT	Pile fabric (96)
	SA	Net
S1207	NT	Hollow fibre
S1218	NT	Monofilament
S1229	NT	Non-circular fibre
		"Including non-cellulosic pulp"
	UF	Plexifilament

		UF	Poly-lobal fibre
S1230		NT	Fibrillated fibre
S1241		NT	Microfibre
		UF	Melt blown fibre
S1252	NT		Tapered fibre
S1263	NT		Textile fibre
S1274	NT		Textured fibre
		UF	Bulked fibre
		UF	Crimped fibre
		UF	False twisted fibre
	SA		Cord
	SA		Tyre Cord
	SA		Whisker
S1285	Film		
			"Solid, not fabric. Thin and flexible enough to be folded without permanent deformation"
S1296	NT		Tubular film
		SA	Tube
S1309	Foam		
S1310	NT		Closed cell foam
S1321		NT	Syntactic foam
S1332	NT		Integral skin foam
S1343	NT		Open cell foam
		UF	Reticulated foam
S1354	Honeycomb structure		
S1365	Gel		
S1376	Grease		
		UF	Liquid at ambient temperature
		UF	Oil
		UF	Wax
S1387	Melt		
S1398	Microballoon		
			"Hollow microcapsule"
S1401	Microcapsule		
S1412	NT		Microcapsule core
S1423	NT		Microcapsule wall
S1434	Moulded article		
		UF	Block
		UF	Slab
S1445	Net		
		SA	Fabric
S1456	Particulate form		
S1467	NT		Bead
			"Including beads resulting from suspension polymerisation"
S1478	NT		Core-shell polymer
			"Both core and shell components must be polymeric"
S1489	NT		Core of core-shell polymer
S1490	NT		Shell of core-shell polymer
S1503	NT		Granule
S1514	NT		Powder
		UF	Flour

S1525	Platelet	
	UF	Flake
S1536	Preform	
	UF	Blank
	UF	Parison
S1547	NT	Pellet
S1558	Profile	
	UF	I-beam profile
	UF	U-beam profile
S1569	Rod	
S1570	Scale	
		"Undesirable deposits"
	UF	Pebbles
S1581	Sheet	
		"Solid, not fabric. Too thick to be folded without causing permanent deformation"
S1592	Sheet moulding compound	
	UF	SMC
	UF	Bulk moulding compound
	UF	BMC
	UF	Dough moulding compound
	UF	DMC
	UF	Thick moulding compound
	UF	TMC
S1605	Solution	
S1616	NT	Aqueous solution
S1627	NT	Organic solution
S1638	NT	Syrup
S1649	Strip	
	UF	Lace
	UF	Ribbon
S1650	NT	Tape
S1661	Tube	
	SA	Tubular film
S1672	Tyre cord	
	SA	Filament
S1683	Whisker	
	SA	Filament

Additives

The Additives facet contains all the functional concepts for additives. The chemical information relating to additives will be found in the Chemicals facet and the Chemical Aspects facet.

The use of the Additive terms is restricted to additives for polymers.

The concepts in this facet are arranged alphabetically and the format of the codes is Annn.

All Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Stabiliser which has been indexed should be searched using A486-R. Searching A486 will retrieve all references - indexed and autoposted.

A special generic code, A999, will be present in the online record whenever an Additive code has been applied. This enables you to search for the presence of an Additive, without specifying the type of additive.

Preparation of additives will be indexed using codes from the Chemical Processes facet or Physical Operation facets. The code C260 is used for catalysts for additive preparation.

Additives

A000	Absorbent	
	UF	Adsorbent
A011	NT	Oil absorbent
A022	NT	Water absorbent
	Accelerator	SEE Crosslinking accelerator SEE Kicker
A033	Adhesion improver	
	UF	Bond improver
	UF	Coupling agent
	UF	Primer
	SA	Tackifier
A044	Biological repellent	
	UF	Animal repellent
	UF	Antimicrobial agent
	UF	Antiseptic
	UF	Bactericide
	UF	Biocide
	UF	Fungicide
	UF	Herbicide
	UF	Insecticide
A055	NT	Antifouling agent
	SA	Scale inhibitor
A066	Buffer	
A077	Colouring agent	
	UF	Coloring agent
	UF	Luminescent agents
	UF	Reflective agents
A088	NT	Brightener
	UF	Delustrant
	UF	Flattening agent
	UF	Opacifier
	UF	Optical bleach
	UF	Whitening agent
A099	NT	Dye
A102	NT	Pigment
	SA	Ink
A113	Compatibility improver	
A124	Complexing agent	
	UF	Chelating agent
	UF	Sequestering agent
A135	Conductivity imparting agent	
		"Additive used to impart electrical conductive property"
	SA	Antistatic agent
A146	Crosslinking accelerator	
	UF	Crosslinking activator

- A157 Crosslinking agent**
 UF Crosslinking initiator
 UF Curing agent
 UF Vulcanising agent
 UF Vulcanizing agent
 A168 NT Friedel Crafts crosslinking agent
 A179 NT Photocrosslinking agent
 SA Photocatalyst [*catalysts*]
- A180 Crosslinking retarder**
 UF Antigelling agent
 UF Antiscorch agent
 UF Blocking agent for crosslinking agent
 UF Cure retarder
- A191 Deodorant**
 SA Odorant
- A204 Depolymerisation agent**
 UF Peptiser
 UF Peptizer
 UF Prodegradant
- A215 Dyeing aid**
 UF Dye receptiveness improver
 SA Colouring agent
- A226 Extender**
 "Including oils for rubber"
 SA Filler
- A237 Filler**
 SA Conductivity imparting agent
 SA Reinforcing agent
- A248 Flame retardant**
 UF Fire proofer
 A259 NT Burning drip retardant
 SA Smoke reducer
- A260 Foaming agent**
 UF Blowing agent
 A271 NT Chemical foaming agent
 A282 NT Volatile foaming agent
 SA Intumescent agent
 SA Kicker
 SA Pore former
- A293 Impact modifier**
- A306 Ink**
 "For polymer surface"
- A317 Intumescent agent**
 UF Char former
- A328 Kicker**
 UF Blowing agent accelerator
 UF Foaming agent activator
- A339 Low profile additive**
 UF Shrink reducing agent

A340	Lubricant	
	UF	Oiling agent for fibres and textiles
A351	NT	Mould release agent
A362	Nucleating agent	
	UF	Seeding agent
	SA	Foam stabiliser
A373	Odorant	
	UF	Fragrance
	SA	Deodorant
A384	Plasticiser	
	UF	Plasticizer
	SA	Reactive diluent
A395	Pore former	
		"Includes solid particles which are removed to provide a porous structure"
	SA	Foaming agent
A408	Reactive diluent	
	SA	Plasticiser
A419	Reinforcing agent	
	SA	Filler
A420	Repellent	
A431	NT	Oil repellent
	UF	Plasticiser repellent
	UF	Plasticizer repellent
	UF	Solvent repellent
A442	NT	Soil repellent
	UF	Stain repellent
A453	NT	Water repellent
	UF	Water proofing agent
	SA	Biological repellent
	SA	Scale inhibitor
A464	Smoke reducer	
	SA	Flame retardant
A475	Solvent	
	UF	Diluent
	UF	Swelling agent
A486	Stabiliser	
	UF	Stabilizer
	UF	Anti-ageing agent
A497	NT	Antioxidant
A500	NT	Antiozonant
A511	NT	Heat stabiliser
A522	NT	Hydrogen halide acceptor
A533	NT	Ionising radiation stabiliser
		"Use Ionising radiation universal terms as applicable"
	UF	Antirad
A544	NT	Light stabiliser
		"Use Light radiation universal terms as applicable"
	UF	Light absorbent
	UF	Photostabiliser
A555	NT	Stabiliser, other

- A566 Surfactant**
- A577 NT Antiblocking agent
 "Material (usually powder) applied to polymer surface to reduce adhesiveness"
 UF Dusting agent
 UF Slip agent
- A588 NT Antifoaming agent
- A599 NT Antifog agent
- A602 NT Antistatic agent
- A613 NT Coagulant
- A624 NT Dispersant
- A635 NT Emulsifier
 UF Detergent
 UF Soap
 UF Wetting agent
- A646 NT Protective colloid
- A657 NT Foam stabiliser
 UF Cell stabiliser
- A668 NT Scale inhibitor
 SA Antifouling agent
- A679 NT Surfactant, other
- A680 Tackifier**
 SA Adhesion improver
- A691 Viscosity modifier**
- A704 NT Gelling agent
 SA Crosslinking agent
- A715 NT Thickener
- A726 NT Thixotrope
- A737 NT Viscosity reducing agent
 UF Viscosity depressant
- A793 Additive of unspecified use (96)**
- A748 Additive, other**
- A759 Additive preparation**
- A760 Multifunctional additive**
- A771 Multiple additives with same function**
 "The presence of two or more additives having the same function in the same composition"
- A782 Polymeric additive**
- Related terms from other facets:***
- C260 Catalyst for additive preparation [*catalysts*]

Catalysts

This facet includes catalysts, initiators and controllers used for polymerisation, polymer modification, polymer former preparation and additive preparation. Catalyst for catalyst preparation is not covered unless either the catalyst or the catalyst being prepared is polymeric.

The concepts cover both the type of catalyst and the type of reaction being catalysed, and any number of these codes may be used in combination. The chemical information relating to catalysts will be found in the Chemicals facet and the Chemical Aspects facet.

The codes for this facet are of the format Cnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Catalyst auxiliary which has been indexed should be searched using C113-R. Searching C113 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special general code, C999, will be present in the online record whenever a Catalyst code has been applied. This enables you to search for the presence of a Catalyst without specifying the type of catalyst.

For crosslinking catalysts and initiators, see Crosslinking agent and Crosslinking accelerator in the Additives facet.

Chain initiators, for example trimethylol propane for polyethers and polyetherurethanes, are regarded as modifying agents, rather than catalysts, initiators or controllers, or polymer formers.

Catalysts

C000	Catalyst	
	UF	Initiator
C011	NT	Alfin catalyst
C022	NT	Friedel Crafts catalyst
C033	NT	Coordination catalyst
	UF	Ziegler-Natta catalyst
C044	NT	Biological catalyst
	UF	Bacterial catalyst
	UF	Enzyme catalyst
	UF	Micro-organism catalyst
C055	NT	Group transfer catalyst
C066	NT	Phase transfer catalyst
C077	NT	Photocatalyst
	UF	Photoinitiator
	SA	Free radical initiator
	SA	Photocrosslinking agent <i>[additives]</i>
C088	NT	Free radical initiator
C099	NT	Redox initiator
	SA	Photocatalyst
C102	NT	Catalyst, other
C113	Catalyst auxiliary	
C124	NT	Cocatalyst
	UF	Catalyst activator
C135	NT	Electron donor
C146	NT	Catalyst auxiliary, other
C340	Multiple catalysts with same function (96)	
		"The presence of two or more catalysts or catalyst auxiliaries having the same function in the same system"
C157	Catalyst preparation material	
C168	Catalyst support	
C179	Chain coupler	
		"Polyfunctional compound used to couple polymer chains"
C180	Blocking agent for polymer former	
	SA	Polymerisation inhibitor
C191	Polymerisation inhibitor	
	UF	Polymerization inhibitor
	SA	Blocking agent for polymer former
C204	Chain stopper	
	UF	Catalyst deactivator
C215	Polymerisation regulator	
	UF	Chain transfer agent
	UF	Molecular weight control agent
	UF	Peak suppressor
	UF	Polymerisation modifier
	UF	Polymerization regulator
C226	Telogen	
C237	Controller, other	

- C248 Catalyst preparation
- C259 Catalyst for polymer former preparation
- C260 Catalyst for additive preparation
- C271 Catalyst for polymer modification
- C282 Catalyst for natural polymer production
- C293 Catalyst for polymerisation through C-C unsaturation only
- C306 Catalyst for polymerisation NOT through C-C unsaturation
- C317 Catalyst for polymerisation by reaction of C-C unsaturation with non C-C unsaturated functionality
- C328 Catalyst for polymerisation involving ring opening
- C339 Catalyst for polymerisation involving cyclisation

Related terms from other facets:

- D62 Metallocene *[chemical aspects]*
- D72 Bridged metallocene *[chemical aspects]*

Chemical Processes

The terms in the Chemical Processes facet can be used for polymers, polymer formers and additives. For polymers, there are also the corresponding modified terms in the Modified Polymers facet. The terms in this facet are not used for catalyst preparation, unless the catalyst is polymeric. This facet also contains all the polymerisation concepts and these can be used in conjunction with concepts such as amidation to define the bond formed during condensation polymerisation of a diacid and a diamine to produce a polyamide.

The concepts and hierarchies are arranged alphabetically and the codes in this facet have the format Lnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed rather than autoposted can be searched by adding '-R' to the end of the code; thus Halogenation which has been indexed should be searched using L2222-R. Searching L2222 will retrieve all references - indexed and autoposted.

A special generic code, L9999, will be present in the online record whenever a Chemical Process code has been applied. This enables you to search for the presence of a Chemical Process without specifying the type of process.

The terms in the equipment facet can be used in conjunction with any of the Chemical Process terms to provide searchable concepts for the equipment for these processes.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Chemical Processes

- L2006 Acetalisation**
- L2017 Acrylation**
 "Reaction with any acrylic derivative. Used with other chemical process concepts as applicable"
- L2028 Amidation**
 "Including urea group formation"
- L2039 Amination**
- L2040 Ammoxidation**
- L2051 Boron incorporation**
 "Used for any process incorporating boron"
- L2062 Carboxy group incorporation**
- L2073 Crosslinking**
 UF Curing
 UF Vulcanisation
- L2084 Cyclisation**
 "Creation of ring by bond formation"
- L2095 Degradation**
- L2108 NT Carbonisation
 UF Pyrolysis
 UF Thermal decomposition
- L2119 NT Depolymerisation
- L2120 Dehalogenation**
- L2131 Dehydrohalogenation**
- L2142 Doping**
 SA Metal incorporation
- L2153 End group modification**
- L2164 NT End blocking
- L2175 Epoxidation**
 "Used for formation or incorporation of epoxy group"
- L2186 Esterification**
 "Reaction with carboxylic acid or derivative only"
- L2197 NT Transesterification
 UF Ester exchange
 SA Acrylation
 SA Halosulphonation
 SA Maleinisation
 SA Sulphonation
- L2200 Etherification**
- L2211 Haloalkylation**
- L2222 Halogenation**
- L2233 NT Bromination
- L2244 NT Chlorination
- L2255 NT Fluorination
- L2266 NT Iodination
 SA Haloalkylation
 SA Halosulphonation

- L2277 Halosulphonation**
 UF Halosulfonation
 UF Sulphohalogenation
 UF Sulfohalogenation
 L2288 NT Chlorosulphonation
- L2299 Hydrocarbylation**
 "Formation of C-C bond. Not used for C-C addition polymerisation or metathesis polymerisation"
 UF Alkylation
 UF Arylation
 SA Haloalkylation
- L2846 Hydroformylation (96)**
 "The process of adding a hydroformyl group (H₂CO) to a molecule."
- L2302 Hydrohalogenation**
- L2313 Hydrolysis**
 UF Alcoholysis
 UF Glycolysis
 UF Saponification
- L2324 Hydroxy group incorporation**
 SA Hydrolysis
- L2335 Imidation**
 SA Cyclisation
- L2346 Isomerisation**
 UF Disproportionation
 UF Rearrangement
- L2357 Ketalisation**
- L2368 Maleinisation**
 "Reaction with any maleic derivative. Used with other chemical process concepts as applicable"
- L2379 Metal incorporation**
 "Metal excludes Ar, As, B, Br, C, Cl, F, H, He I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
- L2380 NT Metallation
 "C-metal bond formation"
 SA Boron incorporation
 SA Phosphorus incorporation
 SA Silicon incorporation
- L2391 Modification of polymer**
 UF Polymer modification
- L2404 Natural polymer production**
- L2415 Neutralisation**
- L2426 Nitration**
 "Addition of NO₂"
- L2437 Oxidation**
 UF Ozonisation
- L2448 NT Dehydrogenation
- L2459 Oxyalkylation**
 UF Alkoxylation
- L2460 Phosphorus incorporation**
 "Used for any process incorporating phosphorus"

- L2471 Polymer former preparation**
 UF Monomer preparation
- L2506 Polymerisation**
 "For reactions other than C-C addition or metathesis polymerisation, the concept(s) for the bond(s) formed should also be used, e.g. amidation for polyamide production"
 UF Polymerization
- L2517 NT Bulk polymerisation
 UF Mass polymerisation
- L2528 NT Copolymerisation
 "Used for polymerisation of >1 polymer former"
- L2539 NT Core-shell polymerisation
- L2540 NT Electrolytic polymerisation
- L2551 NT Emulsion polymerisation
- L2562 NT Gaseous polymerisation
- L2573 NT Homopolymerisation
 "Used for polymerisation of a single polymer former"
- L2584 NT Interfacial polymerisation
- L2595 NT Oligomerisation
- L2608 NT Dimerisation
- L2619 NT Plasma polymerisation
- L2620 NT Prepolymerisation
- L2631 NT Residual polymer former polymerisation
 UF Residual monomer polymerisation
- L2642 NT Slurry polymerisation
 "Polymer former(s) soluble, polymer formed insoluble"
- L2653 NT Solid phase polymerisation
- L2664 NT Solution polymerisation
 "Polymer former(s) soluble, polymer formed soluble"
- L2675 NT Suspension polymerisation
 UF Bead polymerisation
 UF Dispersion polymerisation
 UF Granular polymerisation
- L2686 NT Telomerisation
 SA Cyclisation
 SA Ring opening
- L2700 Quaternisation**
- L2711 Reduction**
- L2722 NT Hydrogenation
- L2733 Ring opening**
- L2744 NT Heterocyclic ring opening
- L2755 NT Hydrocarbon ring opening
- L2766 Silanation**
 "Formation of Si-C bond"
 UF Silylation
 SA Silicon incorporation
- L2777 Silicon incorporation**
 "Used for any process incorporating silicon"
 SA Silanation
- L2788 Sulphation**
 UF Sulfation

- L2799 Sulphonation**
UF Sulfonation
- L2802 Surface modification**
"By chemical process only"
- L2813 Unsaturation incorporation**
"C-C unsaturation only"
SA Acrylation
SA Maleinisation
- L2824 Urethanisation**
UF Carbamylation
- L2835 Chemical process, other**

Related terms from other facets:

- C271 Catalyst for polymer modification [*catalysts*]
- H0157 Atom(s) incorporated in polymer by modification [*polymer descriptors*]
- H0226 Modifying agent [*polymer descriptors*]
- H0362 End functional polymer (04) [*polymer descriptors*]

Physical Operations

The Physical Operations facet contains all the processing terms.

The hierarchies and concepts are arranged alphabetically and the format of the codes in this facet is Nnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Moulding which has been indexed should be searched using N6440-R. Searching N6440 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, N9999, will be present in the online record whenever a Physical Operation code has been applied. This enables you to search for the presence of a Physical Operation without specifying the type of operation.

The terms in the Equipment facet can be used in conjunction with any of the Physical Operation terms to provide searchable concepts for the equipment for these processes.

In the Surface treating hierarchy, any number of the coating concepts may be used in combination; for example, coating with metal onto a polymer by sputtering would be covered by the following three concepts:- Coating by sputtering, Coating onto polymer and Coating with metal.

The products of these processes can be searched using the Surface treated terms from the Properties facet.

Physical Operations

N5709	Agitating	
	UF	Stirring
N5710	Bleaching	
	UF	Decolourising
N5721	Bonding	
		"Using an adhesive agent"
	UF	Adhering
N5732	NT	Solvent welding
	SA	Heat sealing
	SA	Joining
N5743	Casting	
N5754	Coalescing	
	UF	Agglomerating
N5765	Colouring	
N5776	NT	Bulk colouring
	UF	Pigmenting
	SA	Masterbatching
N5787	NT	Surface colouring
	UF	Dyeing
N5798	NT	Printing
N5801	NT	Solvent dyeing
N5812	Cooling	
N5823	NT	Quenching
N5834	Crimping	
	UF	False twisting
N5845	Crystallising	
	SA	Cooling
	SA	Heating
N5856	Defect preventing	
	UF	Sag avoidance or removal
N5867	Densifying	
N7341	Developing (04)	
		"Physical removal of resist, e.g. by dissolving. Dissolving also indexed if appropriate"
N5878	Dimensioning	
		"Used for shape or size control of products"
	SA	Defect preventing
N5889	Dissolving	
N5890	NT	Solution forming
	SA	Solution polymerisation <i>[chemical processes]</i>
N5903	NT	Syrup forming
N5914	Drawing	
	UF	Orienting
	UF	Stretching
N5925	NT	Biorienting
	UF	Biaxial drawing

N5936	NT	Uniaxially orienting
	SA	Oriented [<i>properties</i>]
N5947	Emulsifying	
	UF	Suspension forming
	SA	Emulsion polymerisation [<i>chemical processes</i>]
	SA	Suspension polymerisation [<i>chemical processes</i>]
N5958	Equipment cleaning	
		"Used for cleaning of processing equipment"
	SA	Cleaning
N5969	Evacuating	
	SA	Vacuum forming
N5970	Extruding	
		"Used for any process in an extruder, such as foaming"
N5981	NT	Coextruding
N5992	NT	Extrusion blowing
N6008	Fabric production	
N6019	NT	Knitting
N6020	NT	Non-woven fabric production
N6031	NT	Weaving
N6042	Fibre reinforced plastics lay-up	
	UF	FRP lay-up
N6053	NT	Filament winding
N6064	NT	Pultrusion
N6075	Fibrillating	
N6086	Foaming	
	UF	Expanding
	UF	Pore forming
N6097	Forming	
N6100	NT	Cold forming
N6111	NT	Thermoforming
N6122	NT	Vacuum forming
N6133	Gelling	
	SA	Crosslinking [<i>chemical processes</i>]
N6144	Granulating	
	UF	Comminuting
	SA	Pelleting
N6155	Grinding	
N6166	Heat sealing	
	UF	Welding
N6177	Heating	
N6188	NT	Annealing
	UF	Heat treating
	UF	Stress relaxing
N6199	NT	Heat setting
N6202	NT	Melting
	SA	Heat sealing
N6213	NT	Preheating
N6224	NT	Sintering
	SA	Shrinking
	SA	Temperature control

N6235	Insert incorporating	
N6246	Joining	
	UF	Bolting
	UF	Connecting
	SA	Bonding
	SA	Heat sealing
N6257	Labelling	
N6268	Machining	
N6279	NT	Cutting
N6280	NT	Deflashing
	UF	Burr removal
	UF	Trimming
N6291	NT	Drilling
N6304	NT	Perforating
N6315	NT	Punching
	SA	Granulating
N6326	Masterbatching	
N6337	Material handling	
N6348	NT	Conveying
N6359	NT	Ejecting
N6360	NT	Feeding
N6371	NT	Wind up
		"Including wind up of film, tape, fibre"
N6382	Measuring	
N6393	NT	Gravimetric measuring
	UF	Dosing
N6406	NT	Temperature measuring
N6417	NT	Volumetric measuring
	UF	Metering
	SA	Testing
N6428	Melt blowing	
		"Used for production of fibres"
N6439	Mixing	
	UF	Blending
	SA	Masterbatching
N6440	Moulding	
N6451	NT	Blow moulding
N6462	NT	Compression moulding
	SA	Stamping
N6473	NT	Dip moulding
N6484	NT	Injection moulding
N6495	NT	Outsert injection moulding
	UF	Injection moulding onto inlays
N6508	NT	Reaction injection moulding
	UF	RIM
N6519	NT	Reinforced reaction injection moulding
	UF	RRIM
N6520	NT	Rotational moulding
	UF	Centrifugal casting
N6531	NT	Slush moulding

N7307	NT	Stereographic moulding (96) "Process used to 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."
N6542	NT	Transfer moulding
	SA	Casting
	SA	Tyre production
N6553	Nucleating	
	UF	Seeding
N6564	pH control	
N6575	Pollution control	
		"Applicable to any process"
	SA	Waste treating
N6586	Preforming	
N6597	NT	Pelleting
	SA	Granulating
N6600	Pressing	
	UF	Compressing
	SA	Stamping
N6611	Process control	
N6622	NT	Automation
	UF	Computer control
N6633	NT	Temperature control
	SA	pH control
N6644	Purging	
	UF	Flushing
N6655	Purifying	
N6666	NT	Catalyst removing
N6677	NT	Centrifuging
N6688	NT	Cleaning
N6699	NT	Coagulating
N6702	NT	Concentrating
N6713	NT	Decanting
N6724	NT	Degassing
N7318	NT	Deliquefying (96)
	UF	Dewatering
N6735	NT	Distilling
N6746	NT	Flash vaporising
N6757	NT	Fractional distilling
N6768	NT	Steam distilling
N6779	NT	Stripping
N6780	NT	Drying
N6791	NT	Spray drying
N6804	NT	Filtering
N6815	NT	Ultrafiltering
N6826	NT	Polymer former removing
	UF	Monomer removing
N6837	NT	Polymer fractionating
N6848	NT	Precipitating
N6859	NT	Regenerating
N6860	NT	Solvent removing

N6871	NT	Sterilising
N6882	NT	Washing
N6893	NT	Purifying, other
	SA	Crystallising
	SA	Purging
	SA	Residual polymer former polymerisation <i>[chemical processes]</i>
N6906		Recycling
		"Processing of used products to make other products, either the same or different"
	SA	Reuse of scrap
N6917		Repairing
N6928		Reuse of scrap
		"Collection and reuse of materials during production processes; includes solvent recycling"
	SA	Pollution control
	SA	Recycling
	SA	Waste treating
N6939		Rolling
N6940	NT	Calendering
N6951		Shrinking
N6962		Spinning
N6973	NT	Dry spinning
	UF	Evaporative spinning
N6984	NT	Flash spinning
N6995	NT	Wet spinning
	UF	Coagulative spinning
	UF	Dry-wet spinning
N7001		Stamping
N7012		Storing
		"Used for polymers, polymer formers, catalysts, additives and intermediates"
N7023		Surface treating
N7034	NT	Coating
N7045	NT	Coating by dipping
	UF	Coating by immersion
N7056	NT	Coating by electrodeposition
	UF	Electrostatic coating
	SA	Electroplating
N7067	NT	Coating by spraying
	UF	Flame spraying
N7078	NT	Coating by spreading
N7329	NT	Spin coating (96)
N7089	NT	Coating by sputtering
N7090	NT	Coating onto polymer
N7103	NT	Coating with metal
	UF	Metallising
N7114	NT	Electroless deposition
N7125	NT	Electroplating
N7136	NT	Coating with non-polymer
	SA	Coating with polymer
	SA	Coating with metal
N7147	NT	Coating with polymer
	SA	Coating with polymer former(s)

N7158		NT	Coating with polymer former(s)
		UF	Coating with monomer(s)
		SA	Coating with polymer
N7169	NT		Embossing
N7170	NT		Encapsulating
N7181	NT		Etching
N7192	NT		Laminating
N7205	NT		Lining
N7330	NT		Microencapsulating (96)
N7216	NT		Polishing
N7227	NT		Surface treating, other
		SA	Stamping
		SA	Surface colouring
		SA	Surface modification <i>[chemical processes]</i>
N7238	Testing		
N7249		NT	Analytical techniques
N7250	Twisting		
		SA	Crimping
N7261	Tyre production		
			"Used for moulding and associated processes"
N7272	Venting		
N7283	Waste treating		
		SA	Pollution control
N7294	Physical operation, other		

Equipment

The Equipment terms are designed to be used in conjunction with one or more Chemical Process term or Physical Operation term, thus providing a range of equipment concepts equivalent to the range of processes and operations. In 2004 some specific equipment concepts were introduced to aid retrieval.

The codes in this facet have the format Jnnnn.

All Narrower terms (NT) autopost generic terms.

A special generic code, J9999, will be present in the online record whenever an Equipment code has been applied. This enables you to search for the presence of Equipment without specifying the type of equipment.

Equipment

J2904 Construction materials of equipment

J2915 Equipment

J2926	NT	Autoclaves
J7034	NT	Coating equipment (04)
J5812	NT	Cooler/Heat exchanger (04)
J6780	NT	Dryer (04)
		UF Spray dryer
J6611	NT	Equipment control devices (04)
		UF Devices which measure/control temperature, pressure, etc. during other processes
J8366	NT	Equipment for making packaging (04)
J5970	NT	Extruder (04)
J6804	NT	Filter (04)
		UF Breaker plate
J2937	NT	Fluidised bed reactor
J6337	NT	Material handling equipment (04)
		UF Inlet equipment, feeding units, dosers
		UF Outlet equipment, wind-up units
J6439	NT	Mixing unit (04)
		UF Mixing heads
		UF Kneader
J6440	NT	Moulding equipment (04)
		"For moulds use J2948 in addition"
J6484	NT	Injection moulder (04)
J6451	NT	Blow moulder (04)
J2948	NT	Moulds
		"Any mould used for polymer processing or polymerisation"
J2506	NT	Polymerisation reactor (04)
J2959	NT	Pumps
J2960	NT	Rollers
J2971	NT	Tubular reactor

Related terms in other facets:

N5958	Equipment cleaning [physical operations]
K9972	Fluidised bed [universal terms]

Properties

The Properties facet contains concepts arranged hierarchically in alphabetical order.

The format of the codes in this facet is Bnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Optical properties which has been indexed should be searched using B4240-R. Searching B4240 will retrieve all references - indexed and autoposted.

A special generic code, B9999, will be present in the online record whenever a Properties code has been applied. This enables you to search for the presence of a Property without specifying the type of property.

These concepts are principally used to describe the properties of polymers, but they may be used for additives, catalysts and modifying agents when the property is important, for example, particle size of a filler.

The presence of an additive within a composition, will not automatically result in the indexing of the corresponding property. The Property codes will only be applied when the property is important.

Properties

B3009		Chemical effects on other materials
B3010		Degradability
B3021	NT	Biological degradability
	UF	Biodegradable
B3032	NT	Chemical degradability
B3043	NT	Degradability by detergents
B3054	NT	Degradability by foodstuffs
	UF	Degradability by beverages
B3065	NT	Degradability by oils
	UF	Degradability by fats
	UF	Degradability by greases
B3076	NT	Degradability by organic solvents
B3087	NT	Ionising radiation degradability
		"Use Ionising radiation universal terms as applicable"
B3098	NT	Light degradability
		"Use Light radiation universal terms as applicable"
B3101	NT	Oxygen degradability
B3112	NT	Ozone degradability
B3123	NT	Thermal degradability
B3134	NT	Ultrasonic degradability
B3145	NT	Water degradability
B3156	NT	Weather degradability
		"Heat, light, oxygen and moisture degradation in combination over long time period"
	UF	Atmospheric degradability
B3167	NT	Degradation by other agents or effects
	SA	Discolour
	SA	Stability
B3178		Dependence of properties on temperature
		"Can be used with Ambient, High or Low temperature universal terms"
	UF	Temperature dependence of properties
	SA	Thermal properties
B3189		Dependence of properties on time or frequency
	UF	Time dependence of properties
	UF	Frequency dependence of properties
B3190		Electrical properties
B3203	NT	Dielectric properties
B3214	NT	Dielectric constant
	UF	Dissipation factor
	UF	Permittivity
	UF	Power factor
B3225	NT	Dielectric strength
	UF	Dielectric breakdown
B3236	NT	Discharge effects
B3247	NT	Arc resistance
B3258	NT	Tracking
	UF	Water treeing
B3269	NT	Electrical conductivity
B3270	NT	Electrically insulating
	UF	Resistivity
B3281	NT	Electromagnetic shielding

B3292	NT	Electrostatics
B3305	NT	Antistatic
B3316	NT	Spark hazards
B3327	NT	Magnetic
B3338	NT	Piezoelectric
B3349	NT	Pyroelectric
B3350	NT	Semiconductivity
B3361	NT	Electrical property, other
	SA	Electroluminescence
	SA	Radiation opaque
	SA	Radiation sensitive/reactive
	SA	Radiation transparent
B3372		Environmental relationship
B3383	NT	Absorption
	UF	Adsorption
	UF	Swellability
B3394	NT	Oil absorption
	UF	Lipophilic
	UF	Plasticiser absorption
	UF	Solvent absorption
B3407	NT	Water absorption
	UF	Hydrophilic
	SA	Absorption of light
	SA	Hydrophilic-lipophilic balance
B3418	NT	Compatibility
B3429	NT	Colour fastness
B3430	NT	Dispersibility
B3441	NT	Hydrophilic-lipophilic balance
	UF	HLB
B3452	NT	Insolubility
B3463	NT	Water insolubility
B3474	NT	Lack of compatibility
	UF	Bleeding
	UF	Blooming
	UF	Sweating
B3485	NT	Repellence
	UF	Soil repellence
B3496	NT	Oil repellence
	UF	Lipophobic
	UF	Plasticiser repellence
	UF	Solvent repellence
B3509	NT	Water repellence
	UF	Hydrophobic
	UF	Water proof
B3510	NT	Solubility
B5630	NT	Organic solvent solubility (96)
B3521	NT	Water solubility
B5641	NT	Acid solubility (96)
B5652	NT	Alkali solubility (96)
B3532	NT	Storage stability
	UF	Pot life
	UF	Shelf life

B3543	Flammability		
		UF	Inflammability
		SA	Non-flammability
B3554	Flow properties		
B3565		NT	Extrusion behaviour
		UF	Die swell
		UF	Extrusion defects
B3576		NT	Flow birefringence
B3587		NT	Grease viscosity
		UF	Oil viscosity
		UF	Wax viscosity
B3598		NT	Latex viscosity
B3601		NT	Melt flow index
		UF	Melt flow rate
		UF	MFI
B3612		NT	Melt viscosity
		UF	High shear melt viscosity
		UF	Melt elasticity
		UF	Mooney plasticity
		UF	Mooney viscosity
B3623		NT	Mouldability
		UF	Processability
B3634		NT	Organosol viscosity
B3645		NT	Paste viscosity
B3656		NT	Powder flow
B3667		NT	Scorch
		UF	Mooney scorch
B3678		NT	Solution viscosity
		UF	Inherent viscosity
		UF	Intrinsic viscosity
		UF	Relative viscosity
		UF	Reduced viscosity
		UF	Specific viscosity
B3689		NT	Thixotropic properties
B3690	Impurity		
B3703		NT	Catalyst content
		UF	Ash content
B3714		NT	Moisture content
B3725		NT	Monomer content
B3736		NT	Solvent content
		SA	Purity
B3747	Mechanical properties		
B3758		NT	Dimensional stability
		UF	Warpage
B3769		NT	Antipilling resistance
B3770		NT	Crease resistance
		UF	Wash-wear properties
		SA	Elastic memory
B3781		NT	Friability

B3792	NT	Hardness
	UF	Barcol hardness
	UF	Rockwell hardness
	UF	Shore hardness
B3805	NT	Machinability
	UF	Punchability
B3816	NT	Scratch resistance
B3827	NT	Softness
B3838	NT	Stress-strain properties
	UF	Viscoelasticity
B3849	NT	Cracking
	UF	Crazing
	UF	Fracture surfaces
B3850	NT	Environmental stress cracking
B3861	NT	Stress cracking
B3872	NT	Creep and creep recovery
	UF	Cold flow
	UF	Compression set
	UF	Permanent set
	UF	Solid flow
B3883	NT	Drawability in solid state
	UF	Necking
B3894	NT	Elastic memory
	UF	Shape memory
B3907	NT	Elongation
B3918	NT	Fatigue
	UF	Flex-life
	UF	Folding endurance
B3929	NT	Green strength of rubber
B3930	NT	Rigidity properties
	UF	Compliance
	UF	Elasticity
	UF	Elastic modulus
	UF	Secant moduli
B3941	NT	Bulk modulus
	UF	Compressibility
B3952	NT	Compression modulus
B3963	NT	Dynamic mechanical properties
	UF	Coefficient of restitution
	UF	Vibration measurements
B3974	NT	Acoustic properties
B3985	NT	Sound absorbing
B3996	NT	Sound wave velocity
B4002	NT	Dynamic loss properties
	UF	Damping
	UF	Heat build-up
	UF	Hysteresis
	UF	Internal friction
	UF	Mechanical losses
	SA	Fatigue
	SA	Sound absorbing
B4013	NT	Dynamic modulus

B4024		NT	Resilience
		UF	Rebound resilience
B4035		NT	Flexibility
		UF	Fabric drapability
B4046		NT	Flexural modulus
B4057		NT	Poisson's ratio
B4068		NT	Shear modulus
		UF	Modulus of rigidity
		UF	Torsion modulus
B4079		NT	Stiffness
		UF	Rigidity
B4080		NT	Tensile modulus
		UF	Percentage modulus
		UF	Young's modulus
B4091		NT	Strength
B4104		NT	Brittleness
B4115		NT	Bursting strength
B4126		NT	Compressive strength
B4137		NT	Ductility
B4148		NT	Flexural strength
		UF	Bending strength
		UF	Cross-breaking strength
B4159		NT	Impact strength
B4160		NT	Shear strength
B4171		NT	Tensile strength
		UF	Knot strength
		UF	Tenacity
B4182		NT	Tear strength
		UF	Puncture resistance
B4193		NT	Toughness
B4206		NT	Stress relaxation
B4217		NT	Stress/strain curves
B4228		NT	Yield point

B4239 Non-flammability

SA Flammability

B4240 Optical properties

B4251		NT	Absorption of light
			"Use Light radiation universal terms as applicable"
B4262		NT	Colour
		UF	Colourless
B4273		NT	Discolour
B4284		NT	Electro-optical
		UF	Kerr effects
B5696		NT	Electroluminescence (04)
B4295		NT	Haze
		UF	Distortion on transmission
B4308		NT	Luminescence
		UF	Fluorescence
		UF	Phosphorescence
B4319		NT	Magneto-optical
B4320		NT	Optical activity

B4331	NT	Optically anisotropic
	UF	Liquid crystal properties
	UF	Mesomorphic
	UF	Thermotropic
B4342	NT	Optical polarity
B4353	NT	Photochromic
B4364	NT	Photoelasticity
B4375	NT	Radiation opaque
		"Use Radiation universal terms as applicable"
B4386	NT	Radiation sensitive/reactive
		"Use Radiation universal terms as applicable"
	SA	Radiation sensitive photographic polymers <i>[applications]</i>
B5663	NT	Radiation translucent (96)
		"Use Radiation universal terms as applicable"
B4397	NT	Radiation transparent
		"Use Radiation universal terms as applicable"
B4400	NT	Reflectivity
	UF	Mattress distortion on reflection
	UF	Scattering on reflection
B4411	NT	Gloss
	UF	Lustre
B4422	NT	Matt
B4433	NT	Pearlescence
	UF	Iridescence
B4444	NT	Refractive index
	UF	Double refraction
	UF	Optical birefringence
B5674	NT	Second order nonlinearity (96)
B4455	NT	Optical property, other
B4466		Physiological properties
B4477	NT	Non-toxic effect on non-human organisms
	SA	Toxic effect on non-human organisms
B4488	NT	Non-toxic to humans
	UF	Biocompatible
	UF	Non-thrombogenic
	SA	Toxicity to humans
B4499	NT	Smell
	UF	Odour
	UF	Odourless
B4502	NT	Taste
B4513	NT	Toxic effect on non-human organisms
	SA	Non-toxic effect on non-human organisms
B4524	NT	Toxicity to humans
	UF	Carcinogenic
	UF	Dermatitic
	SA	Non-toxic to humans
B4535		Purity
	SA	Impurity
B4546		Smoke generation
	SA	Smoke suppression

B4557	Smoke suppression	
	SA	Smoke generation
B4568	Stability	
	UF	Ageing resistance
B4579	NT	Biological stability
B4580	NT	Chemical resistance
B4591	NT	Corrosion resistance
B4604	NT	Ionising radiation stability
		"Use Ionising radiation universal terms as applicable"
B4615	NT	Light stability
		"Use Light radiation universal terms as applicable"
B4626	NT	Organic solvent resistance
B4637	NT	Oxygen stability
B4648	NT	Ozone stability
B4659	NT	Stability to detergents
B4660	NT	Stability to foodstuffs
	UF	Stability to beverages
B4671	NT	Stability to oils
	UF	Stability to fats
	UF	Stability to greases
B4682	NT	Thermal stability
	UF	Heat resistance
B4693	NT	Ultrasonic stability
B4706	NT	Water stability
	UF	Hydrolysis resistant
B4717	NT	Moisture resistance
B4728	NT	Weatherability
		"Heat, light, oxygen and moisture stability in combination over long time period"
	UF	Atmospheric stability
B4739	NT	Stability to other agents or effects
	SA	Degradability
B4740	Structural properties	
B4751	NT	Acid number
		"The number of mg of KOH equivalent to the acidity present in 1 gm of resin"
	SA	Hydroxy number
B4762	NT	Bond properties
	UF	Bond polarisability
	UF	Dipole moments
	UF	Force constants
	UF	Refractivity
B4773	NT	Crystalline properties
B4784	NT	Amorphous
B4795	NT	Crystalline
B4808	NT	Crystal structure
	UF	Chain repeat distance
	UF	Electron diffraction patterns
	UF	Unit cell dimensions
	UF	X-ray diffraction spacings
B4819	NT	Rates of crystallisation and melting
	UF	Kinetics of crystallisation and melting
B4820	NT	Size, shape, arrangement of crystalline phase
	SA	Linkage

B4831	NT	Density
B4842		NT Bulk density
B4853	NT	Diffusion properties
B4864		NT Impermeability
B4875		NT Permeability
B4886		NT Semipermeability
B4897	NT	Heat set
		SA Non heat set
B4900	NT	Hydroxy number
		SA Acid number
B4911	NT	Inter and intra molecular forces
		UF Chain flexibility
		UF Cohesive energy density
		UF Steric hindrance
B4922	NT	Linkage
B4933	NT	Random
		UF Atactic
B4944		NT Stereoregular
B4955		NT Isotactic
B4966		NT Syndiotactic
		SA Crystalline properties
B4977	NT	Molecular properties
B4988		NT Curable
B4999		NT Self-curable
B5005	NT	Degree of branching
		UF Branching distribution
		SA Dendrimer
B5016	NT	Degree of crosslinking
		UF Reversion crosslinking
B5027		NT Uncrosslinked
		UF Unvulcanised
B5038	NT	Degree of types of polymer structure
B5049		NT 1,2 or 3,4 diene polymer
B5050		NT 1,4 diene polymer
B5061		NT Cis polymer
B5072		NT Trans polymer
B5083	NT	Degree of unsaturation
		UF Iodine value of polymer
B5094	NT	Molecular weight
		UF K value
		UF Polymerisation degree
B5107	NT	Molecular weight distribution
B5118		NT Polydispersity
		UF Multi-modal
B5129		NT Rate of crosslinking
B5130	NT	Non heat set
		SA Heat set
B5141	NT	Non-porous
		SA Porous
B5152	NT	Oriented
B5163		NT Biaxially oriented
B5174		NT Uniaxially oriented
		SA Unoriented

B5185	NT	Particles properties
B5196	NT	Particle shape
B5209	NT	Particle size
	UF	Particle size distribution
B5210	NT	Particle structure
B5221	NT	Porous
	SA	Non-porous
B5232	NT	Resonance
	UF	Electron spin
	UF	NMR
B5243	NT	Thickness
B5254	NT	Denier
B5265	NT	Unoriented
	SA	Oriented
B5276		Surface properties
B5287	NT	Abrasion resistance
	UF	Wear resistance
B5298	NT	Adhesive properties
B5301	NT	Adhesiveness
	UF	Tack
B5312	NT	Heat-seal strength
	UF	Weld strength
B5323	NT	Lack of adhesion
	UF	Non-tack
B5334	NT	Strippability
	UF	Peelability
B5345	NT	Blocking
	UF	Cling
	SA	Non-blocking
B5356	NT	Dyeability
	UF	Colour receptiveness
	UF	Printability
B5367	NT	Friction
B5685	NT	Non-blocking (96)
	SA	Blocking
B5378	NT	Surface irregularities
B5389	NT	Surface smoothness
B5390	NT	Surface tension
B5403	NT	Surface treated
B5414	NT	Coated
B5425	NT	Coated with metal
	UF	Metallised
B5436	NT	Coated with non-polymer
B5447	NT	Coated with polymer
B5458	NT	Embossed
B5469	NT	Etched
B5470	NT	Polished
B5481	NT	Printed
B5492	NT	Surface treated, other
B5505		Thermal properties
B5516	NT	Specific heat
B5527	NT	Thermal conductivity

B5538	NT	Thermal expansion
B5549	NT	Thermally insulating
B5550	NT	Thermal shrinkage
B5561	NT	Thermal shock resistance
	UF	Heat shock resistance
	SA	Dependence of properties on temperature

B5572 Transition points

B5583	NT	Differential thermal analysis
	UF	DTA
B5594	NT	Heat distortion point
B5607	NT	Melting point
B5618	NT	Rubber/glass transition point
B5629	NT	Softening point
	UF	Vicat softening point

Applications

The Applications facet contains a wide range of application concepts arranged hierarchically in alphabetical order.

The format of the Applications codes is Qnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus searching Adhesives which has been indexed should be searched using Q6644-R. Searching Q6644 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, Q9999, will be present in the online record whenever an Applications code has been applied. This enables you to search for the presence of an Application without specifying the type of application.

Indexing Conventions:

In photographic patents, additives are only indexed when they are additives to the polymer, rather than components of the photographic composition.

Magnetic material in magnetic recording compositions is not indexed unless it is polymeric.

Applications

- Q6600 Abrasive compositions**
 UF Abrasive paper
 UF Grinding wheels
 UF Sandpaper
- Q9370 Absorbents (96)**
 "Use with properties as appropriate"
 SA Cleaning materials
 SA Medical use
 SA Pollution control
- Q6611 Acoustic use**
 Q6622 NT Acoustic insulation
 UF Sound proofing
 SA Electro-acoustic use
 SA Musical instruments
 SA Recording media
- Q6633 Adhesive tape**
- Q6644 Adhesives**
 Q6655 NT Anaerobic adhesive
 Q6666 NT Hot melt adhesive
 Q6677 NT Pressure sensitive adhesive
 Q6688 NT Thermosetting adhesive
 SA Abrasive compositions
 SA Adhesive tape
 SA Binders
 SA Sealants
- Q6699 Aerosol compositions**
 SA Aerosol containers
- Q6702 Agriculture**
 UF Horticulture
 Q6713 NT Cloches
 Q6724 NT Fertilisers
 UF Fertilizers
 Q6735 NT Greenhouses
 Q6746 NT Herbicides
 Q6757 NT Mulch
 Q6768 NT Agriculture, other
 SA Mariculture
 SA Pesticide
 SA Veterinary use
- Q6779 Armaments**
 SA Explosives
 SA Military use
 SA Propellents
 SA Rockets

- Q6780 Barrier layers**
 "Where surface(s) is specified see interface terms"
 SA Coatings
 SA Impermeability [*properties*]
 SA Laminates
 SA Linings
 SA Tie layers
- Q6791 Binders**
- Q6804 Bookbinding**
- Q6815 Brushes**
- Q6826 Buildings**
- Q6837 NT Building fittings
 SA Doors
 SA Window frames
- Q6848 NT Flooring
- Q6859 NT Rainwater goods
 UF Guttering
- Q6860 NT Roofing
- Q6871 NT Sanitary ware
 UF Baths
 UF Basins
 UF Lavatory ware
- Q6882 NT Lavatory cisterns
- Q6893 NT Walls and coverings
 UF Ceilings
 UF Wallpaper
 SA Acoustic insulation
 SA Civil engineering
 SA Glazing
 SA Solar heat collectors
 SA Thermal insulation
- Q6906 Carpets**
 SA Textiles
- Q6917 Catalysts**
 UF Catalyst supports
- Q6928 Ceramics use**
 "Polymer used in; includes polymer used in glass, but excludes polymer coatings on ceramics and glass"
- Q6939 Chemical engineering**
- Q6940 NT Heat exchange devices
 SA Solar heat collectors
- Q6951 NT Water treatment
 UF Water treatment compositions
- Q6962 NT Scale inhibiting compositions
- Q6973 NT Chemical engineering, other
- Q6984 Chemical reagents**
- Q6995 Civil engineering**
- Q7001 NT Concrete
 UF Cement compositions
- Q7012 NT Road compositions
 UF Paving
 UF Runway compositions

Q7023	NT	Civil engineering, other
	SA	Earth consolidation
Q7034		Cleaning materials
		"Including wipes and wiping materials"
	UF	Cleaning compositions
Q7045	NT	Detergents
	UF	Fabric conditioners
	SA	Absorbants
	SA	Disinfectant
	SA	Polyelectrolytes
	SA	Surfactant
	SA	Toilet requisites
Q7056		Clothing
Q7067	NT	Footwear
	UF	Boots
	UF	Shoes
Q7078	NT	Gloves
Q7089	NT	Hosiery
	UF	Socks
	UF	Stockings
	UF	Tights
Q7090	NT	Protective clothing
	UF	Eyeshields
	UF	Goggles
	UF	Helmets
Q7103	NT	Clothing, other
	SA	Fasteners
	SA	Textiles
Q7114		Coatings
		"Where surface(s) is specified see interface terms"
Q7125	NT	Antifouling coating/paint
Q7136	NT	Corrosion prevention coating/ paint
Q7147	NT	Gel coatings
Q7158	NT	Paints
Q7169	NT	Aqueous paints
Q7170	NT	Solvent based paints
	UF	Lacquers
	UF	Varnishes
Q7181	NT	Polishes
Q7192	NT	Primer coating
Q7205	NT	Release coatings
Q7216	NT	Sizes
		"Only used for external sizes"
Q7227	NT	Strippable coatings
Q7238	NT	Thixotropic coating/paints
	UF	Non-drip paint
	SA	Laminates
	SA	Linings
	SA	Masking compositions
Q7249		Composite board
	UF	Chipboard
	UF	Fibreboard

- UF Hardboard
- UF Plywood
- SA Decorative laminates
- Q7250 Controlled release devices**
 - UF Controlled release compositions
- Q7261 Dental use**
 - SA Dental toilet requisites
 - SA Medical use
- Q7272 Disinfectant**
- Q7283 Display**
 - UF Advertising
- Q7294 Disposable use**
- Q7307 Doors**
- Drums**
 - SEE Tanks
 - SEE Musical instruments
- Q7318 Earth consolidation**
 - UF Geotextiles
- Q7329 Educational devices**
 - UF Models
- Q7330 Electrical engineering**
- Q7341 NT Batteries
 - UF Electrical accumulators
 - UF Storage batteries
- Q7352 NT Cable sheathing
 - UF Electrical cable coatings
 - UF Electrical wire coatings
 - SA Electrical insulation
- Q7363 NT Capacitors
 - UF Condensers
- Q7374 NT Electrical insulation
- Q7385 NT Insulation tape
- Q7396 NT Electrochemical cells
 - UF Electrolytic cells
 - UF Electrophoresis cells
- Q7409 NT Electrodes
- Q9381 NT Electro-magnetic shielding applications (96)
"Including radio-wave absorbers and reflectors"
- Q7410 NT Fuel cells
- Q7421 NT Magnetic devices
- Q7432 NT Electric generator
- Q7443 NT Electric motor
 - SA Magnetic recording media
- Q9392 NT Piezoelectric devices (96)
- Q7454 NT Printed circuits
- Q7465 NT Resistors
- Q7476 NT Semiconductor devices
 - UF Integrated circuits
- Q7487 NT Waveguides

- Q7498 NT Electrical engineering, other
 SA Electro-acoustic use
 SA Electro-optical use
 SA Encapsulated article
 SA Heat and temperature applications
 SA Radomes
 SA Recording media
- Q7501 Electro-acoustic use**
 UF Microphones
 UF Speakers
 SA Acoustic use
- Q7512 Electro-optical use**
 UF Cathode ray tubes
 UF Light Emitting Diodes (LED)
 UF Solar cells
- Q9472 NT Electroluminescent Devices (04)
 UF Organic Light Emitting Diodes (OLED)
 UF Polymer Light Emitting Diodes (PLED)
- Q7523 Encapsulated article**
 SA Microcapsule [*shape & form*]
- Engineering**
 SEE Chemical engineering
 SEE Civil engineering
 SEE Electrical engineering
 SEE Mechanical engineering
 SEE Nuclear engineering
- Q7534 Explosives**
 SA Propellents
- Q7545 Fancy goods**
 UF Jewellery
 UF Ornaments
- Q7556 Fasteners**
- Q7567 Filters**
- Q7578 Fishing**
- Q7589 Food**
- Q7590 NT Food additive
 SA Cooking utensils
- Q7603 Friction materials**
 NT Brakes
 NT Clutches
- Q7636 Fuels**
 UF Fuel additives
 SA Propellents
- Q7647 Functional fluids**
 UF Hydraulic fluids
 SA Fuels
 SA Lubricants

Q7658 Glazing

"Polymer used in or with glass or as a substitute for glass in windows, windscreens etc"

- UF Skylights
- UF Windows
- UF Windshields
- UF Windscreens
- SA Window frames

Q7669 Heat and temperature applications

- UF Heat generating materials
- SA Heat exchange devices
- SA Solar heat collectors
- SA Thermal insulation

Q7670 Hinges**Q7681 Household use**

- Q7692 NT Cabinets and housings
 - UF Radio cabinets
 - UF Telephone housings
 - UF TV cabinets
- Q7705 NT Cooking utensils
 - UF Mixing bowls
 - UF Pan scrubbers
- Q7716 NT Furniture
- Q7727 NT Refrigerator use
- Q7738 NT Tableware
 - UF Crockery
 - UF Cutlery
- Q7749 NT Household use, other
 - SA Brushes
 - SA Carpets
 - SA Sanitary ware
 - SA Upholstery
- Q7750 **Immobilised enzymes**
 - UF Immobilized enzymes
 - SA Microbiology
- Q7761 **Inflatable structures**
 - SA Tyres
- Ink**
 - SEE Pigment/colo(u)rant system (04)
 - SEE Printing inks
 - SEE Writing inks
- Insulation**
 - SEE Acoustic insulation
 - SEE Electrical insulation
 - SEE Thermal insulation
- Q7772 **Ion exchange resins**
- Q7783 **Labels**
- Q7794 **Laboratory use**
- Q7807 NT Chromatography
 - SA Measuring and testing equipment

- Q7818 Laminates**
 "Where surface(s) is specified see interface terms"
- Q7829 NT Decorative laminates
 SA Barrier layers
 SA Coatings
 SA Linings
 SA Tie layers
- Q9416 Leather treatment (96)**
 "Polymer use in the treatment of natural leather"
- SA Coatings
 SA Surfactant
 SA Synthetic leather
 SA Leather interface [*universal terms*]
- Q7830 Linings**
 "Where surface(s) is specified see interface terms"
- SA Barrier layers
 SA Coatings
 SA Laminates
 SA Tie layers
- Q7841 Lubricants**
 SA Functional fluids
 SA Viscosity modifiers
- Q7852 Mariculture**
 UF Fish farming
 SA Fishing
- Q7863 Masking compositions**
 UF Masking tape
 SA Resists
- Q7874 Measuring and testing equipment**
- Q7885 Mechanical engineering**
- Q7896 NT Bearing surfaces
 UF Gears
- Q7909 NT Belts
 UF Conveyor belts
- Q7910 NT Engines
 UF Engine components
 UF Internal combustion engines
 UF Jet engines
 SA Transport
- Q7921 NT Mechanical tools
- Q7932 NT Moulds
 SA Shell mouldings
- Q7943 NT Shell mouldings
 UF Core binding
- Q7954 NT Shock absorber
- Q7965 NT Valves
 UF Diaphragms
- Q7976 NT Mechanical engineering, other
 SA Friction materials
 SA Rollers
 SA Seals

- Q7987 Medical use**
 UF Surgical use
 Q9427 NT Birth control devices (96)
 Q7998 NT Diagnosis
 UF Pathology
 Q8004 NT Diapers
 UF Tampons
 Q8015 NT Medical dressings
 "Including casts, splints"
 UF Bandages
 Q8026 NT Medical equipment
 UF Catheters
 UF Syringes
 Q8037 NT Medicines
 UF Pharmaceuticals
 Q8048 NT Protheses
 SA Lenses
 Q8059 NT Medical use, other
 SA Dental use
 SA Disinfectant
 SA Veterinary use
- Q8060 Membrane**
 UF Dialysis membrane
 UF Reverse osmosis membrane
 UF Ultrafilter
 UF Ultrafiltration membrane
- Q8071 Metallurgy**
- Q8082 Microbiology**
 UF Culturing bacteria
 UF Genetic engineering
 SA Immobilised enzymes
- Q9438 Military use (96)**
 "Used for defensive military applications, including camouflage"
 SA Armaments
- Q8093 Mining**
 Q8106 NT Drilling fluid
 UF Drilling mud
 Q8117 NT Well cementing
 UF Permeability reducers
 UF Well plugging
 Q8128 NT Well stimulation
 UF Displacement techniques
 UF Well flooding
 Q8139 NT Mining, other
 SA Belts
- Q8140 Musical instruments**
- Q8151 Nautical**
 SA Fishing
 SA Water transport
- Q8162 Nuclear engineering**

Q8173	Office use	
Q8184	NT	Drawing office material
	UF	Tracing paper
Q9449	NT	Office automation equipment (96) "Includes computers, keyboards etc."
	UF	OA Equipment
Q8195	NT	Pressure sensitive recording materials
Q8208	NT	Carbon paper
Q8219	NT	Carbonless paper
Q8220	NT	Typewriter ribbon
Q8231	NT	Writing devices
	SA	Writing inks
Q8242	NT	Writing inks
Q8253	NT	Office use, other
Q8264	Optical use	
Q8275	NT	Implosion guards
Q8286	NT	Lenses
Q8297	NT	Contact lenses
Q8300	NT	Spectacle lenses
Q8311	NT	Lighting and fittings
Q8322	NT	Liquid crystal devices
Q8333	NT	Mirrors
Q8344	NT	Optical fibres and cables systems
Q9450	NT	Optical filters (96)
Q8355	NT	Optical use, other
	SA	Recording media
Q8366	Packaging	
Q8377	NT	Cling film
Q8388	NT	Closures
	UF	Tear strips
Q8399	NT	Containers
Q8402	NT	Aerosol containers
	SA	Aerosol compositions
Q8413	NT	Bags
	UF	Sacks
Q8424	NT	Blister packs
Q8435	NT	Bottles
	UF	Squeeze bottles
Q8446	NT	Boxes
Q8457	NT	Cans
Q8468	NT	Cartons
Q8479	NT	Crates
Q8480	NT	Tanks
Q8491	NT	Tubs
Q8504	NT	Cushion packaging
	UF	Bubble mat
Q8515	NT	Pallets
Q8526	NT	Sachets
Q8537	NT	Shrink packages
Q8548	NT	Strapping
Q8559	NT	Stretch film
Q8560	NT	Wrapping film

Q8571	NT	Packaging, other
	SA	Labels
	SA	Laminates
Q8582	Paper	
		"Polymer used in"
Q8593	Pesticide	
	UF	Insecticide
Q8606	Photography	
Q8617	NT	Electrophotography
Q8628	NT	Photoconductors
Q8639	NT	Toners
Q8640	NT	Holography
Q8651	NT	Photographic equipment
Q8662	NT	Photographic substrate
	UF	Subbed film
Q8673	NT	Radiation sensitive photographic polymers
		"Use Radiation universal terms as applicable"
Q8684	NT	Resists
	SA	Radiation sensitive/reactive <i>[properties]</i>
Q8695	NT	Thermography
Q8708	NT	Photography, other
	SA	Binders
Q9483	Pigment/colo(u)rant system (04)	
		"Polymer used in/as pigment/colo(u)rant system with use unspecified. Excluding inks, paints"
Q8719	Pipework	
Q8720	NT	Plumbing
	UF	Pipe fittings
Q8731	NT	Pipes
	UF	Fluid conduction
	UF	Hosepipes
Q8742	Plating bath additives	
Q8753	Pollution control	
Q8764	Polyelectrolytes	
	UF	Flocculants
	SA	Detergents
Q8775	Printing	
Q8786	NT	Ink jet printing
Q8797	NT	Printing inks
Q8800	NT	Printing plates
	UF	Stencils
Q9494	NT	Substrate (04)
	UF	Receiving Layer
Q8811	NT	Thermal head printing
Q8822	NT	Transfer sheets and films
Q8833	NT	Printing, other
	SA	Pressure sensitive recording materials
	SA	Rollers
	SA	Thermography

- Q8844 Propellents**
 "Not used for aerosol propellents"
 SA Aerosol compositions
 SA Fuels
- Q9405 Radomes (96)**
- Q8855 Recording media**
 "Including allied components e.g. cassette cases"
- Q8866 NT Gramophone records
 Q8877 NT Magnetic recording media
 UF Magneto-optical recording media
 Q8888 NT Magnetic recording discs
 UF Floppy discs
 Q8899 NT Magnetic recording tapes
 Q8902 NT Audio tapes
 Q8913 NT Video tapes
 Q8924 NT Optical recording media
 UF Optical storage
 UF Optical retrieval
 Q8935 NT Optical discs
 UF CDR
 UF CDRW
 UF DVD
 Q8946 NT Compact discs
 Q8957 NT Video discs
 SA Photography
 SA Printing
- Q9507 Release Sheets (04)**
 SA Release Coatings
- Q8968 Renewable energy devices**
 Q8979 NT Solar heat collectors
 UF Solar panels
 SA Electro-optical use
- Q8980 Rockets**
 SA Armaments
 SA Space vehicles
- Q8991 Rollers**
- Q9007 Sealants**
 UF Caulking compositions
 UF Sealing compositions
- Q9018 Seals**
 UF Gaskets
 UF Washers
 SA Closures
- Q9029 Security use**
- Q9030 Self-testing use**
 UF Self-monitoring use
 UF Tamper evident use

- Q9041 Spectacle frames**
SA Spectacle lenses
- Q9052 Sports**
Q9063 NT Balls
Q9461 NT Golf (96)
Q9074 NT Racquets
UF Golf clubs
UF Bats
Q9085 NT Skiing
Q9096 NT Sports areas
Q9109 NT Sports, other
SA Fishing
SA Toys
- Q9110 Surfactant**
SA Detergents
- Q9121 Synthetic leather**
Tape
SEE Adhesive tape
SEE Magnetic recording tapes
SEE Masking compositions
SEE Typewriter ribbon
- Q9132 Textiles**
SA Carpets
SA Clothing
- Q9143 Thermal insulation**
UF Lagging
- Q9154 Tie layers**
"Where surface(s) is specified see interface terms"
SA Barrier layers
SA Coatings
SA Laminates
SA Linings
- Q9165 Toilet requisites**
Q9176 NT Toilet requisites for skin
UF Cosmetics
Q9187 NT Toilet requisites for hair
UF Hair shampoo
UF Wigs
Q9198 NT Dental toilet requisites
UF Toothpaste
- Q9201 Toys**
- Q9212 Transport**
Q9223 NT Aircraft
Q9234 NT Ground vehicles
UF Cars
Q9245 NT Space vehicles
SA Rockets
Q9256 NT Tyres
UF Inner tubes
Q9267 NT Bonding aid for tyre reinforcement
Q9278 NT Retreaded tyres

Q9289	NT	Vehicle parts
	UF	Bumpers
	UF	Wiper blades
Q9290	NT	Water transport
	SA	Nautical
Q9303	NT	Transport, other
	SA	Carpets
	SA	Glazing
	SA	Upholstery
Q9314		Travel goods
	UF	Handbags
	UF	Luggage
	UF	Trunks
	UF	Wallets
Q9325		Upholstery
Q9336		Veterinary use
Q9347		Viscosity modifiers
Q9358		Window frames
Q9369		Polymer use, other

