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Combination Sets

Combination Sets in the main group C08G18/00



Outline

- Scope and information sources
- Basic rules and principles
- The authorized Combination sets in detail
- Guidance & comments
- Examples
- Recapitulative Tables

Scope of the base symbol

- ❑ C08G18/00 relates to polymers from isocyanates or isothiocyanates (i.e., it includes polyurethanes and polyureas)

- ❑ Only the following subgroup symbols may be used as the base symbols in authorised “binary” Combination sets of group C08G18/00:
 - C08G18/10
 - C08G18/12
 - C08G18/67
 - C08G18/671 to C08G18/672
 - C08G18/6735 to C08G18/679
 - C08G18/81 to C08G18/8191
 - C08G18/8158 to C08G18/8175

information sources

- ❖ CPC scheme (latest interleave version) for C08G
 - see especially the NOTES concerning Combination sets at page 6, page 18 and page 22 of the scheme
- ❖ other details and/or instructions provided by the CPC scheme/definitions of C08G/C08G18

Basic rules and principles

- ❑ Last place rule(LPR): in the absence of an indication to the contrary, classification is made in the last appropriate place.
 - In the case of Combination sets, the LPR applies **both for the base symbol and for the second symbol** assigned within a Combination set and has to be complemented in the case of C08G18 by the **additional proviso** that the classification is made in the last **authorized** appropriate place.

- ❑ In the subclass C08G, **the group C08G18/00 takes precedence over all other groups**
 - A further classification is also given elsewhere, if the polymers are obtained by reactions forming specific linkages for which an appropriate group is provided.

Basic rules and principles

- ❑ The group C08G18 **covers compositions based on monomers which form macromolecular compounds** classifiable in C08G18
- ❑ C08G18 **covers also the processes for preparing the macromolecular compounds** provided therein
- ❑ In group C08G18, for the purposes of groups C08G18/28-C08G18/69, the addition of water for the preparation of cellular materials is not taken into consideration
- ❑ In subclass C08G in general: if the monomers are defined, classification is made in groups C08G2/00-C08G79/00, C08G83/00 according to the polymer to be formed

The authorized Combination sets in detail

□ NOTE [at page 6 of the interleaved CPC scheme of C08G dated 2014.06], part 1

After the symbols C08G18/10 and C08G18/12 and separated by a "," sign, are indicated the reactive components of a second or following step by one of the symbols

C08G18/2805^{*}, C08G18/30 to C08G18/38 (*or by sub-notations thereof*),
C08G18/40 to C08G18/64 without sub-notations,
C08G18/65 to C08G18/66, C08G18/70 to C08G18/80 (*or by sub-notations thereof*)

*: *correction of an editorial error in the NOTE of the scheme*

➤ Meaning:

Prepolymers prepared from a first reaction step linked to the reactive components of a second or following step

C08G18 (Note, page 6, part 1): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/08	••Processes
C08G 18/10	•••Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen in a first reaction step (<u>C08G 18/0838</u> takes precedence); masked polyisocyanates <u>C08G 18/80</u>)
C08G 18/12	••••using two or more compounds having active hydrogen in the first polymerisation step

C08G18 (Note, page 6, part 1): scope of the second symbol (part I)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/2805	•••{Compounds having only one group containing active hydrogen } ({vinylpolymers having terminal groups containing active hydrogen C08G 18/62 })
C08G 18/281	••••{Monocarboxylic acid compounds}
C08G 18/2815	••••{Monohydroxy compounds}
C08G 18/282	•••••{Alkanols, cycloalkanols or arylalkanols including terpenealcohols}
C08G 18/2825	••••••{having at least 6 carbon atoms}
C08G 18/283	••••••{Compounds containing ether groups e.g. oxyalkylated monohydroxy compounds}
C08G 18/2835	•••••••{having less than 5 ether groups}
C08G 18/284	••••••{Compounds containing ester groups e.g. oxyalkylated monocarboxylic acids}
C08G 18/2845	••••••{Monohydroxy epoxy compounds}
C08G 18/285	•••••{Nitrogen containing compounds}
C08G 18/2855	••••••{Lactams}
C08G 18/286	••••••{Oximes}
C08G 18/2865	•••••••{Compounds having only one primary or secondary amino group; Ammonia}
C08G 18/287	••••••••{Imine compounds}
C08G 18/2875	••••••••{Monohydroxy compounds containing tertiary amino groups}
C08G 18/288	••••••{Compounds containing at least one heteroatom other than oxygen or nitrogen}
C08G 18/2885	•••••••{containing halogen atoms}
C08G 18/289	•••••••{containing silicon}
C08G 18/2895	••••••••{Compounds containing active methylene groups}

C08G18 (Note, page 6, part 1): scope of the second symbol (part II)

C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/30	•••Low-molecular-weight compounds ({C08G 18/2805 takes precedence})
C08G 18/302	••••{Water}
C08G 18/305	•••••{creating amino end groups}
C08G 18/307	•••••{Atmospheric humidity}
C08G 18/32	••••Polyhydroxy compounds; Polyamines; Hydroxyamines
C08G 18/3203	•••••{Polyhydroxy compounds}
C08G 18/3206	••••••{aliphatic}
C08G 18/3209	•••••••{Aliphatic aldehyde condensates and hydrogenation products thereof}
C08G 18/3212	•••••••{containing cycloaliphatic groups}
C08G 18/3215	•••••••{containing aromatic groups or benzoquinone groups}
C08G 18/3218	•••••••{containing cyclic groups having at least one oxygen atom in the ring}
C08G 18/3221	•••••••{hydroxylated esters of carboxylic acids other than higher fatty acids}
C08G 18/3225	••••••{Polyamines}
C08G 18/3228	•••••••{acyclic}
C08G 18/3231	••••••••{Hydrazine or derivatives thereof}
C08G 18/3234	••••••••{cycloaliphatic}
C08G 18/3237	••••••••{aromatic } ({C08G 18/3234 takes precedence})
C08G 18/324	•••••••••{containing only one aromatic ring}
C08G 18/3243	•••••••••{containing two or more aromatic rings}
C08G 18/3246	•••••••••{heterocyclic, the heteroatom being oxygen or nitrogen in the form of an amino group}
C08G 18/325	•••••••••{containing secondary or tertiary amino groups } ({C08G 18/3228, C08G 18/3234, C08G 18/3246 take precedence})

C08G18 (Note, page 6, part 1): scope of the second symbol (part III)

C08G 18/3253	•••••{being in latent form}
C08G 18/3256	•••••{Reaction products of polyamines with aldehydes or ketones}
C08G 18/3259	•••••{Reaction products of polyamines with inorganic or organic acids or derivatives thereof other than metallic salts}
C08G 18/3262	•••••••{with carboxylic acids or derivatives thereof}
C08G 18/3265	•••••••{with carbondioxide or sulfurdioxide}
C08G 18/3268	•••••••{Salt complexes of polyamines}
C08G 18/3271	•••••{Hydroxyamines}
C08G 18/3275	••••••{containing two hydroxy groups}
C08G 18/3278	••••••{containing at least three hydroxy groups}
C08G 18/3281	•••••••{containing three hydroxy groups}
C08G 18/3284	•••••••{containing four hydroxy groups}
C08G 18/3287	•••••••{containing cycloaliphatic groups}
C08G 18/329	•••••••{containing aromatic groups}
C08G 18/3293	•••••••{containing heterocyclic groups}
C08G 18/3296	•••••••{being in latent form}
C08G 18/34	•••••Carboxylic acids; Esters thereof with monohydroxyl compounds
C08G 18/341	••••••{Dicarboxylic acids, esters of polycarboxylic acids containing two carboxylic acid groups}
C08G 18/343	•••••••{Polycarboxylic acids having at least three carboxylic acid groups}
C08G 18/345	••••••••{having three carboxylic acid groups}
C08G 18/346	•••••••••{having four carboxylic acid groups}
C08G 18/348	•••••••{Hydroxycarboxylic acids}

C08G18 (Note, page 6, part 1): scope of the second symbol (part IV)

C08G 18/36	••••Hydroxylated esters of higher fatty acids
C08G 18/38	••••having heteroatoms other than oxygen (<u>C08G 18/32</u> takes precedence)
C08G 18/3802	•••••{having halogens}
C08G 18/3804	••••••{Polyhydroxy compounds}
C08G 18/3806	•••••••{having chlorine and/or bromine atoms}
C08G 18/3808	••••••••{having chlorine atoms}
C08G 18/381	•••••••••{having bromine atoms}
C08G 18/3812	•••••••••{having fluorine atoms}
C08G 18/3814	•••••••{Polyamines}
C08G 18/3817	•••••••{Hydroxylated esters of higher fatty acids}
C08G 18/3819	••••••{having nitrogen}
C08G 18/3821	•••••••{Carboxylic acids; Esters thereof with monohydroxyl compounds}
C08G 18/3823	•••••••{containing -N-C=O groups}
C08G 18/3825	•••••••{containing amide groups } (<u>C08G 18/3821</u> takes precedence)
C08G 18/3827	•••••••••{Bicyclic amide acetals and derivatives thereof}
C08G 18/3829	••••••••{containing ureum groups}
C08G 18/3831	•••••••••{containing urethane groups}
C08G 18/3834	••••••••••{containing hydrazide or semi-carbazide groups}
C08G 18/3836	••••••••{containing azo groups}
C08G 18/3838	•••••••••{containing cyano groups}

C08G18 (Note, page 6, part 1): scope of the second symbol (part V)

C08G 18/384	•••••{containing nitro groups}
C08G 18/3842	•••••{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/3844	•••••{containing one nitrogen atom in the ring}
C08G 18/3846	•••••••{containing imide groups } ({C08G 18/3821 takes precedence})
C08G 18/3848	•••••••{containing two nitrogen atoms in the ring}
C08G 18/3851	•••••••{containing three nitrogen atoms in the ring}
C08G 18/3853	•••••••••{containing cyanurate and/or isocyanurate groups}
C08G 18/3855	•••••{having sulfur}
C08G 18/3857	•••••••{having nitrogen in addition to sulfur}
C08G 18/3859	•••••••{containing -N-C=S groups}
C08G 18/3861	•••••••{containing sulfonamide and/or sulfonylhydrazide groups}
C08G 18/3863	•••••••{containing groups having sulfur atoms between two carbon atoms, the sulfur atoms being directly linked to carbon atoms or other sulfur atoms}
C08G 18/3865	•••••••••{containing groups having one sulfur atom between two carbon atoms}
C08G 18/3868	•••••••••••{the sulfur atom belonging to a sulfide group}

C08G18 (Note, page 6, part 1): scope of the second symbol (part VI)

C08G 18/387	.....{in addition to a perfluoroalkyl group}
C08G 18/3872	.....{the sulfur atom belonging to a sulfoxide or sulfone group}
C08G 18/3874	.....{containing heterocyclic rings having at least one sulfur atom in the ring}
C08G 18/3876	.....{containing mercapto groups}
C08G 18/3878	.....{having phosphorus}
C08G 18/388	.....{having phosphorus bound to carbon and/or to hydrogen}
C08G 18/3882	.....{having phosphorus bound to oxygen only}
C08G 18/3885	.....{Phosphate compounds}
C08G 18/3887	.....{Phosphite compounds}
C08G 18/3889	.....{having nitrogen in addition to phosphorus}
C08G 18/3891	.....{having sulfur in addition to phosphorus}
C08G 18/3893	.....{containing silicon}
C08G 18/3895	.....{Inorganic compounds, e.g. aqueous alkalimetalsilicate solutions; Organic derivatives thereof containing no direct silicon-carbon bonds}
C08G 18/3897	.....{containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon}

C08G18 (Note, page 6, part 1): scope of the second symbol (part VII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/40	•••High-molecular-weight compounds (<u>C08G 18/2805</u> takes precedence)
C08G 18/4009	••••[Two or more macromolecular compounds not provided for in one single group of groups <u>C08G 18/42</u> to <u>C08G 18/64</u>]
C08G 18/4018	•••••[Mixtures of compounds of group <u>C08G 18/42</u> with compounds of group <u>C08G 18/48</u>]
C08G 18/4027	•••••[Mixtures of compounds of group <u>C08G 18/54</u> with other macromolecular compounds]
C08G 18/4036	•••••[Mixtures of compounds of group <u>C08G 18/56</u> with other macromolecular compounds]
C08G 18/4045	•••••[Mixtures of compounds of group <u>C08G 18/58</u> with other macromolecular compounds]
C08G 18/4054	•••••[Mixtures of compounds of group <u>C08G 18/60</u> with other macromolecular compounds]
C08G 18/4063	•••••[Mixtures of compounds of group <u>C08G 18/62</u> with other macromolecular compounds]
C08G 18/4072	•••••[Mixtures of compounds of group <u>C08G 18/63</u> with other macromolecular compounds]
C08G 18/4081	•••••[Mixtures of compounds of group <u>C08G 18/64</u> with other macromolecular compounds]
C08G 18/409	•••••[Dispersions of polymers of <u>C08G</u> in organic compounds having active hydrogen]
C08G 18/42	•••••Polycondensates having carboxylic or carbonic ester groups in the main chain

C08G18 (Note, page 6, part 1): scope of the second symbol (part VIII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/40	•••High-molecular-weight compounds (<u>C08G 18/2805</u> takes precedence)
C08G 18/4009	••••{Two or more macromolecular compounds not provided for in one single group of groups <u>C08G 18/42</u> to <u>C08G 18/64</u> }
C08G 18/4018	•••••{Mixtures of compounds of group <u>C08G 18/42</u> with compounds of group <u>C08G 18/48</u> }
C08G 18/4027	•••••{Mixtures of compounds of group <u>C08G 18/54</u> with other macromolecular compounds}
C08G 18/4036	•••••{Mixtures of compounds of group <u>C08G 18/56</u> with other macromolecular compounds}
C08G 18/4045	•••••{Mixtures of compounds of group <u>C08G 18/58</u> with other macromolecular compounds}
C08G 18/4054	•••••{Mixtures of compounds of group <u>C08G 18/60</u> with other macromolecular compounds}
C08G 18/4063	•••••{Mixtures of compounds of group <u>C08G 18/62</u> with other macromolecular compounds}
C08G 18/4072	•••••{Mixtures of compounds of group <u>C08G 18/63</u> with other macromolecular compounds}
C08G 18/4081	•••••{Mixtures of compounds of group <u>C08G 18/64</u> with other macromolecular compounds}
C08G 18/409	•••••{Dispersions of polymers of <u>C08G</u> in organic compounds having active hydrogen}
C08G 18/42	•••••Polycondensates having carboxylic or carbonic ester groups in the main chain

C08G18 (Note, page 6, part 1): scope of the second symbol (part IX)

C08G 18/44	•••••Polycarbonates
C08G 18/46	•••••having heteroatoms other than oxygen
C08G 18/4607	•••••{having halogens}
C08G 18/4615	•••••{containing nitrogen}
C08G 18/4623	•••••{containing primary or secondary terminal aminogroups}
C08G 18/463	•••••{containing nitro groups}
C08G 18/4638	•••••{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/4646	•••••••{containing one nitrogen atom in the ring}
C08G 18/4653	•••••••{containing two nitrogen atoms in the ring}
C08G 18/4661	•••••••{containing three nitrogen atoms in the ring}
C08G 18/4669	•••••••{Addition products of unsaturated polyesters with amino compounds}
C08G 18/4676	•••••••{containing sulfur}
C08G 18/4684	•••••••{containing phosphorus}
C08G 18/4692	•••••••{containing silicon}
C08G 18/48	•••••Polyethers
C08G 18/50	•••••having heteroatoms other than oxygen

C08G18 (Note, page 6, part 1): scope of the second symbol (part X)

C08G 18/52	•••• Polythioethers
C08G 18/54	•••• Polycondensates of aldehydes
C08G 18/542	••••• {with phenols}
C08G 18/544	••••• {with nitrogen compounds}
C08G 18/546	••••• {Oxyalkylated polycondensates of aldehydes}
C08G 18/548	••••• {Polycondensates of aldehydes with ketones}
C08G 18/56	•••• Polyacetals
C08G 18/58	•••• Epoxy resins ({C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/003})
C08G 18/581	••••• {Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component} ({with amines C08G 18/584})
C08G 18/582	••••• {having halogens}
C08G 18/584	••••• {having nitrogen}
C08G 18/585	••••• {having sulfur}
C08G 18/587	••••• {having phosphorus}
C08G 18/588	••••• {having silicon}
C08G 18/60	•••• Polyamides or polyester-amides
C08G 18/603	••••• {Polyamides}
C08G 18/606	••••• {Polyester-amides}
C08G 18/61	•••• Polysiloxanes
C08G 18/615	••••• {containing carboxylic acid groups}
C08G 18/62	•••• Polymers of compounds having carbon-to-carbon double bonds

C08G18 (Note, page 6, part 1): scope of the second symbol (part XI)

C08G 18/63	••••Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers
C08G 18/631	•••••[onto polyesters and/or polycarbonates]
C08G 18/632	•••••[onto polyethers]
C08G 18/633	•••••[onto polymers of compounds having carbon-to-carbon double bonds]
C08G 18/635	•••••[onto unsaturated polymers]
C08G 18/636	•••••[characterised by the presence of a dispersion-stabiliser]
C08G 18/637	•••••[characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates]
C08G 18/638	•••••[characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles]
C08G 18/64	••••Macromolecular compounds not provided for by groups <u>C08G 18/42</u> to <u>C08G 18/63</u>

C08G18 (Note, page 6, part 1): scope of the second symbol (part XII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (<u>C08G 18/2805</u> takes precedence)
C08G 18/6505	••••[the low-molecular compounds being compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6511	•••••[compounds of group <u>C08G 18/3203</u>]
C08G 18/6517	••••••[having at least three hydroxy groups]
C08G 18/6523	••••••[Compounds of group <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6529	•••••••[Compounds of group <u>C08G 18/3225</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6535	•••••••[Compounds of group <u>C08G 18/3271</u>]
C08G 18/6541	••••[the low-molecular compounds being compounds of group <u>C08G 18/34</u>]
C08G 18/6547	••••[the low-molecular compounds being compounds of group <u>C08G 18/36</u> or hydroxylated esters of higher fatty acids of <u>C08G 18/38</u>]
C08G 18/6552	•••••[Compounds of group <u>C08G 18/63</u>]
C08G 18/6558	••••••[with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6564	•••••••[with compounds of group <u>C08G 18/3203</u>]
C08G 18/657	•••••••[with compounds of <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6576	•••••[Compounds of group <u>C08G 18/69</u>]
C08G 18/6582	•••••••[with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u>]
C08G 18/6588	••••••••[with compounds of group <u>C08G 18/3203</u>]
C08G 18/6594	•••••••••[with compounds of <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u>]

C08G18 (Note, page 6, part 1): scope of the second symbol (part XIII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (C08G 18/2805 takes precedence);
C08G 18/66	••••Compounds of groups C08G 18/42 , C08G 18/48 , or C08G 18/52
C08G 18/6603	•••••{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6607	••••••{with compounds of group C08G 18/3203 }
C08G 18/6611	•••••••{having at least three hydroxy groups}
C08G 18/6614	•••••••{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38 }
C08G 18/6618	••••••••{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6622	•••••••••{with compounds of group C08G 18/3271 }
C08G 18/6625	••••••{with compounds of group C08G 18/34 }
C08G 18/6629	•••••••{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
C08G 18/6633	•••••••{Compounds of group C08G 18/42 }
C08G 18/6637	••••••••{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/664	•••••••••{with compounds of group C08G 18/3203 }
C08G 18/6644	••••••••••{having at least three hydroxy groups}
C08G 18/6648	•••••••••••{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38 }
C08G 18/6651	••••••••••••{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6655	•••••••••••••{with compounds of group C08G 18/3271 }
C08G 18/6659	••••••••••••{with compounds of group C08G 18/34 }
C08G 18/6662	•••••••••••••{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
C08G 18/6666	•••••••••••••{Compounds of group C08G 18/48 or C08G 18/52 }
C08G 18/667	••••••••••••••{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6674	•••••••••••••••{with compounds of group C08G 18/3203 }
C08G 18/6677	••••~••••••••••~•{having at least three hydroxy groups}
C08G 18/6681	••••••••••••••••{with compounds of group C08G 18/32 or C08G 18/3271 and/or polyamines of C08G 18/38 }
C08G 18/6685	••••••••••~••••••••••~•{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6688	••••••••••~••••••••••~••{with compounds of group C08G 18/3271 }
C08G 18/6692	••••••••••~••••••••••~•••{with compounds of group C08G 18/34 }
C08G 18/6696	••••••••••~••••••••••~•••••{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }

C08G18 (Note, page 6, part 1): scope of the second symbol (part XIV)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/06	•with compounds having active hydrogen
C08G 18/70	••characterised by the isocyanates or isothiocyanates used
C08G 18/701	•••{Compounds forming isocyanates or isothiocyanates in situ } (C08G 18/80 takes precedence)
C08G 18/702	•••{Isocyanates or isothiocyanates containing compounds having carbon-to-carbon double bonds; Telomers thereof}
C08G 18/703	•••{Isocyanates or isothiocyanates transformed in a latent form by physical means}
C08G 18/705	••••{Dispersions of isocyanates or isothiocyanates in a liquid medium } (C08G 18/702 takes precedence)
C08G 18/706	•••••{the liquid medium being water}
C08G 18/707	•••••{the liquid medium being a compound containing active hydrogen not comprising water}
C08G 18/708	••••{Isocyanates or isothiocyanates containing non-reactive high-molecular-weight compounds}
C08G 18/71	•••Monoisocyanates or monoisothiocyanates
C08G 18/711	••••{containing oxygen in addition to isocyanate oxygen}
C08G 18/712	••••{containing halogens}
C08G 18/714	••••{containing nitrogen in addition to isocyanate or isothiocyanate nitrogen}
C08G 18/715	••••{containing sulfur in addition to isothiocyanate sulfur}
C08G 18/717	••••{containing phosphorus}
C08G 18/718	••••{containing silicon}
C08G 18/72	•••Polyisocyanates or polyisothiocyanates
C08G 18/721	••••{Two or more polyisocyanates not provided for in one single group C08G 18/73 to C08G 18/80 }
C08G 18/722	•••••{Combination of two or more aliphatic and/or cycloaliphatic polyisocyanates}
C08G 18/724	•••••{Combination of aromatic polyisocyanates with (cydo)aliphatic polyisocyanates}
C08G 18/725	•••••{Combination of polyisocyanates of C08G 18/78 with other polyisocyanates}
C08G 18/727	•••••{comprising distillation residues or non-distilled raw phosgenation products}
C08G 18/728	•••••{Polymerisation products of compounds having carbon-to-carbon unsaturated bonds and having isocyanate or isothiocyanate groups or groups forming isocyanate or isothiocyanate groups}

C08G18 (Note, page 6, part 1): scope of the second symbol (part XV)

C08G 18/73	••••acyclic
C08G 18/735	•••••{containing one isocyanate or isothiocyanate group linked to a primary carbon atom and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom}
C08G 18/74	••••cyclic
C08G 18/75	•••••cycloaliphatic
C08G 18/751	••••••{containing only one cycloaliphatic ring}
C08G 18/752	•••••••{containing at least one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group}
C08G 18/753	••••••••{containing one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate group}
C08G 18/755	•••••••••{and at least one isocyanate or isothiocyanate group linked to a secondary carbon atom of the cycloaliphatic ring, e.g. isophorone diisocyanate}
C08G 18/756	••••••••••{and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom of the cycloaliphatic ring}
C08G 18/757	•••••••••••{containing at least two isocyanate or isothiocyanate groups linked to the cycloaliphatic ring by means of an aliphatic group}
C08G 18/758	•••••••{containing two or more cycloaliphatic rings}

C08G18 (Note, page 6, part 1): scope of the second symbol (part XVI)

C08G 18/76	•••••aromatic
C08G 18/7607	•••••{Compounds of C08G 18/7614 and of C08G 18/7657 }
C08G 18/7614	•••••{containing only one aromatic ring}
C08G 18/7621	•••••••{being toluene diisocyanate including isomer mixtures}
C08G 18/7628	•••••••{containing at least one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group}
C08G 18/7635	•••••••••{containing one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group and at least one isocyanate or isothiocyanate group directly linked to the aromatic ring, e.g. isocyanatobenzylisocyanate}
C08G 18/7642	•••••••••{containing at least two isocyanate or isothiocyanate groups linked to the aromatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate groups, e.g. xylylene diisocyanate or homologues substituted on the aromatic ring}
C08G 18/765	•••••••••{alpha, alpha, alpha', alpha', -tetraalkylxylylene diisocyanate or homologues substituted on the aromatic ring}
C08G 18/7657	•••••••{containing two or more aromatic rings}
C08G 18/7664	•••••••••{containing alkylene polyphenyl groups}
C08G 18/7671	•••••••••••{containing only one alkylene bisphenyl group}
C08G 18/7678	•••••••••{containing condensed aromatic rings}
C08G 18/7685	•••••••••••{containing two or more non-condensed aromatic rings directly linked to each other}
C08G 18/7692	•••••••••••••{containing at least one isocyanate or isothiocyanate group linked to an aromatic ring by means of an aliphatic group}

C08G18 (Note, page 6, part 1): scope of the second symbol (part XVII)

C08G 18/79	.....characterised by the polyisocyanates used, these having groups formed by oligomerisation of isocyanates or isothiocyanates
C08G 18/791	.....{containing isocyanurate groups}
C08G 18/792	.....{formed by oligomerisation of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates}
C08G 18/794	.....{formed by oligomerisation of aromatic isocyanates or isothiocyanates}
C08G 18/795	.....{formed by oligomerisation of mixtures of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates with aromatic isocyanates or isothiocyanates}
C08G 18/797	.....{containing carbodiimide and/or uretone-imine groups}
C08G 18/798	.....{containing urethdione groups}

C08G18 (Note, page 6, part 1): scope of the second symbol (part XVIII)

C08G 18/80	.....Masked polyisocyanates
C08G 18/8003	.....{masked with compounds having at least two groups containing active hydrogen}
C08G 18/8006	.....{with compounds of C08G 18/32}
C08G 18/8009	.....{ with compounds of C08G 18/32A}
C08G 18/8012	.....{with diols}
C08G 18/8016	.....{Masked aliphatic or cycloaliphatic polyisocyanates}
C08G 18/8019	.....{Masked aromatic polyisocyanates}
C08G 18/8022	.....{with polyols having at least three hydroxy groups}
C08G 18/8025	.....{Masked aliphatic or cycloaliphatic polyisocyanates}
C08G 18/8029	.....{Masked aromatic polyisocyanates}
C08G 18/8032	.....{ Masked aliphatic or cycloaliphatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025}
C08G 18/8035	.....{Masked aromatic polyisocyanates not provided for in one single of the groups C08G 18/8019 and C08G 18/8029}
C08G 18/8038	.....{ with compounds of C08G 18/32B}
C08G 18/8041	.....{with compounds of C08G 18/3271}
C08G 18/8045	.....{with water}
C08G 18/8048	.....{with compounds of C08G 18/34}
C08G 18/8051	.....{with compounds of C08G 18/36}
C08G 18/8054	.....{with compounds of C08G 18/38}
C08G 18/8058	.....{with compounds of C08G 18/3819}
C08G 18/8061	.....{masked with compounds having only one group containing active hydrogen}
C08G 18/8064	.....{with monohydroxy compounds}
C08G 18/8067	.....{phenolic compounds}
C08G 18/807	.....{with nitrogen containing compounds}
C08G 18/8074	.....{Lactams}
C08G 18/8077	.....{Oximes}
C08G 18/808	.....{Monoamines}
C08G 18/8083	.....{with compounds containing at least one heteroatom other than oxygen or nitrogen}
C08G 18/8087	.....{containing halogen atoms}
C08G 18/809	.....{containing silicon}
C08G 18/8093	.....{Compounds containing active methylene groups}
C08G 18/8096	.....{with two or more compounds having only one group containing active hydrogen}

The authorized Combination sets in detail

□ NOTE [at page 6 of the interleaved CPC scheme of C08G dated 2014.06], part 2

After the symbols C08G18/10 and C08G18/12 and separated by a "," sign are indicated the oligomerisation of isocyanate- or isothiocyanate groups in the prepolymers or in the added reactive components involving reaction of at least a part of the isocyanate- or isothiocyanate groups with each other in the reaction mixture by the symbols C08G18/02 or C08G18/09 respectively or by subnotations thereof

➤ Meaning:

Oligomerisation of isocyanate- or isothiocyanate groups in the prepolymers or in the added reactive components linked to a reaction involving at least a part of the isocyanate- or isothiocyanate groups with each other in the reaction mixture

C08G18 (Note, page 6, part 2): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/08	••Processes
C08G 18/10	•••Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen in a first reaction step (<u>C08G 18/0838</u> takes precedence); masked polyisocyanates <u>C08G 18/80</u>)
C08G 18/12	••••using two or more compounds having active hydrogen in the first polymerisation step

C08G18 (Note, page 6, part 2): scope of the second symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/02	•of isocyanates or isothiocyanates only
C08G 18/022	•• {the polymeric products containing isocyanurate groups}
C08G 18/025	•• {the polymeric products containing carbodiimide groups}
C08G 18/027	•• {the polymeric products containing urethdione groups}
C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/08	••Processes
C08G 18/09	•••comprising oligomerisation of isocyanates or isothiocyanates involving reaction of a part of the isocyanate or isothiocyanate groups with each other in the reaction mixture (use of preformed oligomers <u>C08G 18/79</u>)
C08G 18/092	•••• {oligomerisation to isocyanurate groups}
C08G 18/095	•••• {oligomerisation to carbodiimide or uretone-imine groups}
C08G 18/097	•••• {oligomerisation to urethdione groups}

The authorized Combination sets in detail

❑ NOTE [at page 18 of the interleaved CPC scheme of C08G dated 2014.06], part 1

After the symbols C08G18/67 and C08G18/671 to C08G18/679 and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups from unsaturated low-molecular-weight compounds having active hydrogen by one of the symbols C08G18/0804 to C08G18/0833

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This note does not apply for the symbols C08G18/6725 and C08G18/673

➤ Meaning:

Unsaturated low-molecular-weight compounds having active hydrogen used in the manufacture of polymers containing ionic or ionogenic groups

C08G18 (Note, page 18, part 1): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/67	•••Unsaturated compounds having active hydrogen
C08G 18/6705	••••[Unsaturated polymers not provided for in the groups C08G 18/671 , C08G 18/6795 , C08G 18/68 or C08G 18/69]
C08G 18/671	••••[Unsaturated compounds having only one group containing active hydrogen] ([takes precedence on groups C08G 18/675 to C08G 18/69])
C08G 18/6715	•••••[Unsaturated monofunctional alcohols or amines]
C08G 18/672	•••••[Esters of acrylic or alkyl acrylic acid having only one group containing active hydrogen]
C08G 18/6725	••••••[containing ester groups other than acrylate or alkylacrylate ester groups]
C08G 18/673	••••••[containing two or more acrylate or alkylacrylate ester groups]
C08G 18/6735	••••••[Unsaturated compounds containing the unsaturation at least partially in a non-aromatic carbocyclic ring]
C08G 18/674	••••••[Unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring]
C08G 18/6745	••••••[Acetylenic compounds]
C08G 18/675	•••••[Low-molecular-weight compounds]
C08G 18/6755	••••••[Unsaturated carboxylic acids]
C08G 18/676	••••••[containing the unsaturation at least partially in a non-aromatic carbocyclic ring]
C08G 18/6765	••••••[containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring]
C08G 18/677	••••••[containing heteroatoms other than oxygen and the nitrogen of primary or secondary amino groups]
C08G 18/6775	•••••••[containing halogen]
C08G 18/678	•••••••[containing nitrogen]
C08G 18/6785	•••••••[containing phosphorus]
C08G 18/679	•••••••[Acetylenic compounds]
C08G 18/6795	•••••[Unsaturated polyethers]
C08G 18/68	••••Unsaturated polyesters

C08G18 (Note, page 18, part 1): scope of the second symbol

C08G 18/00 Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)

C08G 18/06 •with compounds having active hydrogen

C08G 18/08 ••Processes

C08G 18/0804 •••{Manufacture of polymers containing ionic or ionogenic groups}

C08G 18/0809 ••••{containing cationic or cationogenic groups}

C08G 18/0814 •••••{containing ammonium groups or groups forming them}

C08G 18/0819 •••••{containing anionic or anionogenic groups}

C08G 18/0823 •••••{containing carboxylate salt groups or groups forming them}

C08G 18/0828 •••••{containing sulfonate groups or groups forming them}

C08G 18/0833 •••••{containing cationic or cationogenic groups together with anionic or anionogenic groups}

The authorized Combination sets in detail

□ **NOTE** [at page 18 of the interleaved CPC scheme of C08G dated 2014.06], part 2

After the symbols C08G18/671 to C08G18/672 and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols C08G18/40 to C08G18/64 without subnotations, C08G18/65 to C08G18/66, C08G18/6705 and C08G18/6795 to C08G18/69 (*or by subnotations thereof*)

This note does not apply for the symbols C08G18/6725 and C08G18/673

➤ Meaning:

Unsaturated compounds having only one group containing active hydrogen linked to polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds

C08G18 (Note, page 18, part 2): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/67	•••Unsaturated compounds having active hydrogen
C08G 18/6705	••••[Unsaturated polymers not provided for in the groups <u>C08G 18/671</u> , <u>C08G 18/6795</u> , <u>C08G 18/68</u> or <u>C08G 18/69</u>]
C08G 18/671	••••[Unsaturated compounds having only one group containing active hydrogen] (takes precedence on groups <u>C08G 18/675</u> to <u>C08G 18/69</u>)
C08G 18/6715	•••••[Unsaturated monofunctional alcohols or amines]
C08G 18/672	•••••[Esters of acrylic or alkyl acrylic acid having only one group containing active hydrogen]
C08G 18/6725	••••••[containing ester groups other than acrylate or alkylacrylate ester groups]
C08G 18/673	••••••[containing two or more acrylate or alkylacrylate ester groups]
C08G 18/6735	••••••[Unsaturated compounds containing the unsaturation at least partially in a non-aromatic carbocyclic ring]

C08G18 (Note, page 18, part 2): scope of the second symbol (part I)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/40	•••High-molecular-weight compounds (<u>C08G 18/2805</u> takes precedence)
C08G 18/4009	••••[Two or more macromolecular compounds not provided for in one single group of groups <u>C08G 18/42</u> to <u>C08G 18/64</u>]
C08G 18/4018	•••••[Mixtures of compounds of group <u>C08G 18/42</u> with compounds of group <u>C08G 18/48</u>]
C08G 18/4027	•••••[Mixtures of compounds of group <u>C08G 18/54</u> with other macromolecular compounds]
C08G 18/4036	•••••[Mixtures of compounds of group <u>C08G 18/56</u> with other macromolecular compounds]
C08G 18/4045	•••••[Mixtures of compounds of group <u>C08G 18/58</u> with other macromolecular compounds]
C08G 18/4054	•••••[Mixtures of compounds of group <u>C08G 18/60</u> with other macromolecular compounds]
C08G 18/4063	•••••[Mixtures of compounds of group <u>C08G 18/62</u> with other macromolecular compounds]
C08G 18/4072	•••••[Mixtures of compounds of group <u>C08G 18/63</u> with other macromolecular compounds]
C08G 18/4081	•••••[Mixtures of compounds of group <u>C08G 18/64</u> with other macromolecular compounds]
C08G 18/409	•••••[Dispersions of polymers of <u>C08G</u> in organic compounds having active hydrogen]
C08G 18/42	•••••Polycondensates having carboxylic or carbonic ester groups in the main chain

C08G18 (Note, page 18, part 2): scope of the second symbol (part II)

C08G 18/44	•••••Polycarbonates
C08G 18/46	•••••having heteroatoms other than oxygen
C08G 18/4607	•••••{having halogens}
C08G 18/4615	•••••{containing nitrogen}
C08G 18/4623	•••••{containing primary or secondary terminal aminogroups}
C08G 18/463	•••••{containing nitro groups}
C08G 18/4638	•••••{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/4646	•••••••{containing one nitrogen atom in the ring}
C08G 18/4653	•••••••{containing two nitrogen atoms in the ring}
C08G 18/4661	•••••••{containing three nitrogen atoms in the ring}
C08G 18/4669	•••••••{Addition products of unsaturated polyesters with amino compounds}
C08G 18/4676	•••••••{containing sulfur}
C08G 18/4684	•••••••{containing phosphorus}
C08G 18/4692	•••••••{containing silicon}
C08G 18/48	•••••Polyethers
C08G 18/50	•••••having heteroatoms other than oxygen

C08G18 (Note, page 18, part 2): scope of the second symbol (part III)

C08G 18/52	••••Polythioethers
C08G 18/54	••••Polycondensates of aldehydes
C08G 18/542	•••••{with phenols}
C08G 18/544	•••••{with nitrogen compounds}
C08G 18/546	•••••{Oxyalkylated polycondensates of aldehydes}
C08G 18/548	•••••{Polycondensates of aldehydes with ketones}
C08G 18/56	••••Polyacetals
C08G 18/58	••••Epoxy resins ({C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/003})
C08G 18/581	•••••{Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component } ({with amines C08G 18/584})
C08G 18/582	•••••{having halogens}
C08G 18/584	•••••{having nitrogen}
C08G 18/585	•••••{having sulfur}
C08G 18/587	•••••{having phosphorus}
C08G 18/588	•••••{having silicon}
C08G 18/60	••••Polyamides or polyester-amides
C08G 18/603	•••••{Polyamides}
C08G 18/606	•••••{Polyester-amides}
C08G 18/61	••••Polysiloxanes
C08G 18/615	•••••{containing carboxylic acid groups}
C08G 18/62	••••Polymers of compounds having carbon-to-carbon double bonds

C08G18 (Note, page 18, part 2): scope of the second symbol (part IV)

C08G 18/63	••••Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers
C08G 18/631	•••••[onto polyesters and/or polycarbonates]
C08G 18/632	•••••[onto polyethers]
C08G 18/633	•••••[onto polymers of compounds having carbon-to-carbon double bonds]
C08G 18/635	•••••[onto unsaturated polymers]
C08G 18/636	•••••[characterised by the presence of a dispersion-stabiliser]
C08G 18/637	•••••[characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates]
C08G 18/638	•••••[characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles]
C08G 18/64	••••Macromolecular compounds not provided for by groups C08G 18/42 to C08G 18/63

C08G18 (Note, page 18, part 2): scope of the second symbol (part V)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (<u>C08G 18/2805</u> takes precedence)
C08G 18/6505	••••{the low-molecular compounds being compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6511	•••••{compounds of group <u>C08G 18/3203</u> }
C08G 18/6517	•••••{having at least three hydroxy groups}
C08G 18/6523	•••••{Compounds of group <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6529	•••••{Compounds of group <u>C08G 18/3225</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6535	•••••{Compounds of group <u>C08G 18/3271</u> }
C08G 18/6541	••••{the low-molecular compounds being compounds of group <u>C08G 18/34</u> }
C08G 18/6547	••••{the low-molecular compounds being compounds of group <u>C08G 18/36</u> or hydroxylated esters of higher fatty acids of <u>C08G 18/38</u> }
C08G 18/6552	••••{Compounds of group <u>C08G 18/63</u> }
C08G 18/6558	•••••{with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6564	•••••{with compounds of group <u>C08G 18/3203</u> }
C08G 18/657	•••••{with compounds of <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6576	••••{Compounds of group <u>C08G 18/69</u> }
C08G 18/6582	•••••{with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6588	•••••{with compounds of group <u>C08G 18/3203</u> }
C08G 18/6594	•••••{with compounds of <u>C08G 18/3225</u> or <u>C08G 18/3271</u> or polyamines of <u>C08G 18/38</u> }

C08G18 (Note, page 18, part 2): scope of the second symbol (part VI)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (<u>C08G 18/2805</u> takes precedence)
C08G 18/66	••••Compounds of groups <u>C08G 18/42</u> , <u>C08G 18/48</u> , or <u>C08G 18/52</u>
C08G 18/6603	•••••{with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6607	••••••{with compounds of group <u>C08G 18/3203</u> }
C08G 18/6611	•••••••{having at least three hydroxy groups}
C08G 18/6614	•••••••{with compounds of group <u>C08G 18/3225</u> or <u>C08G 18/3271</u> and/or polyamines of <u>C08G 18/38</u> }
C08G 18/6618	•••••••{with compounds of group <u>C08G 18/3225</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6622	•••••••{with compounds of group <u>C08G 18/3271</u> }
C08G 18/6625	••••••{with compounds of group <u>C08G 18/34</u> }
C08G 18/6629	••••••{with compounds of group <u>C08G 18/36</u> or hydroxylated esters of higher fatty acids of <u>C08G 18/38</u> }
C08G 18/6633	••••••{Compounds of group <u>C08G 18/42</u> }
C08G 18/6637	•••••••{with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/664	••••••••{with compounds of group <u>C08G 18/3203</u> }
C08G 18/6644	•••••••••{having at least three hydroxy groups}
C08G 18/6648	•••••••••{with compounds of group <u>C08G 18/3225</u> or <u>C08G 18/3271</u> and/or polyamines of <u>C08G 18/38</u> }
C08G 18/6651	••••••••••{with compounds of group <u>C08G 18/3225</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6655	••••••••••{with compounds of group <u>C08G 18/3271</u> }
C08G 18/6659	••••••••{with compounds of group <u>C08G 18/34</u> }
C08G 18/6662	••••••••{with compounds of group <u>C08G 18/36</u> or hydroxylated esters of higher fatty acids of <u>C08G 18/38</u> }
C08G 18/6666	••••••••{Compounds of group <u>C08G 18/48</u> or <u>C08G 18/52</u> }
C08G 18/667	•••••••••{with compounds of group <u>C08G 18/32</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6674	••••••••••{with compounds of group <u>C08G 18/3203</u> }
C08G 18/6677	••••~•••••••{having at least three hydroxy groups}
C08G 18/6681	••••~••••••••{with compounds of group <u>C08G 18/32</u> or <u>C08G 18/3271</u> and/or polyamines of <u>C08G 18/38</u> }
C08G 18/6685	••••~•••••••••{with compounds of group <u>C08G 18/3225</u> or polyamines of <u>C08G 18/38</u> }
C08G 18/6688	••••~•••••••••{with compounds of group <u>C08G 18/3271</u> }
C08G 18/6692	••••~•••••••{with compounds of group <u>C08G 18/34</u> }
C08G 18/6696	••~••••~••••~••••~••••~••••{with compounds of group <u>C08G 18/36</u> or hydroxylated esters of higher fatty acids of <u>C08G 18/38</u> }

C08G18 (Note, page 18, part 2): scope of the second symbol (part VII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/67	•••Unsaturated compounds having active hydrogen
C08G 18/6705	••••{Unsaturated polymers not provided for in the groups <u>C08G 18/671</u> , <u>C08G 18/6795</u> , <u>C08G 18/68</u> or <u>C08G 18/69</u> }
C08G 18/679	•••••{Acetylenic compounds}
C08G 18/6795	•••••{Unsaturated polyethers}
C08G 18/68	••••Unsaturated polyesters
C08G 18/683	•••••{containing cyclic groups}
C08G 18/686	••••••{containing cycloaliphatic groups}
C08G 18/69	••••Polymers of conjugated dienes {hydrogenated polymers of conjugated dienes <u>C08G 18/6208</u> }
C08G 18/692	•••••{containing carboxylic acid groups}
C08G 18/694	•••••{containing carboxylic ester groups}
C08G 18/696	•••••{containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers}
C08G 18/698	•••••{Mixtures with compounds of group <u>C08G 18/40</u> }

The authorized Combination sets in detail

□ **NOTE** [at page 22 of the interleaved CPC scheme of C08G dated 2014.06], part 1

After the symbols C08G18/81 to C08G18/8191 and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups by one of the symbols C08G18/0804 to C08G18/0833

➤ Meaning:

Unsaturated isocyanates or isothiocyanates used in the manufacture of polymers containing ionic or ionogenic groups

C08G18 (Note, page 22, part 1): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/70	••characterised by the isocyanates or isothiocyanates used
C08G 18/81	•••Unsaturated isocyanates or isothiocyanates
C08G 18/8108	••••[having only one isocyanate or isothiocyanate group]
C08G 18/8116	•••••[esters of acrylic or alkylacrylic acid having only one isocyanate or isothiocyanate group]
C08G 18/8125	••••[having two or more isocyanate or isothiocyanate groups]
C08G 18/8133	••••[having acetylenic groups]
C08G 18/8141	••••[masked]
C08G 18/815	•••••[Polyisocyanates or polyisothiocyanates masked with unsaturated compounds having active hydrogen]
C08G 18/8158	••••••[with unsaturated compounds having only one group containing active hydrogen]
C08G 18/8166	•••••••[with unsaturated monofunctional alcohols or amines]
C08G 18/8175	•••••••[with esters of acrylic or alkylacrylic acid having only one group containing active hydrogen]
C08G 18/8183	•••••••[with unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring]
C08G 18/8191	•••••••[with acetylenic compounds having active hydrogen]

C08G18 (Note, page 22, part 1): scope of the second symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/08	••Processes
C08G 18/0804	•••{Manufacture of polymers containing ionic or ionogenic groups}
C08G 18/0809	••••{containing cationic or cationogenic groups}
C08G 18/0814	•••••{containing ammonium groups or groups forming them}
C08G 18/0819	••••{containing anionic or anionogenic groups}
C08G 18/0823	•••••{containing carboxylate salt groups or groups forming them}
C08G 18/0828	•••••{containing sulfonate groups or groups forming them}
C08G 18/0833	••••{containing cationic or cationogenic groups together with anionic or anionogenic groups}

The authorized Combination sets in detail

□ **NOTE** [at page 22 of the interleaved CPC scheme of C08G dated 2014.06], part 2

After the symbols C08G18/8158 to C08G18/8175 and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols C08G18/40 to C08G18/64 without subnotations, C08G18/65 to C08G18/66, C08G18/6705 and C08G18/6795 to C08G18/69 (*or by subnotations thereof*)

➤ Meaning:

Polyisocyanates or polyisothiocyanates masked with unsaturated compounds having only one group containing active hydrogen linked to polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds

C08G18 (Note, page 22, part 2): scope of the base symbol

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/70	••characterised by the isocyanates or isothiocyanates used
C08G 18/81	•••Unsaturated isocyanates or isothiocyanates
C08G 18/8141	••••[masked]
C08G 18/815	•••••[Polyisocyanates or polyisothiocyanates masked with unsaturated compounds having active hydrogen]
C08G 18/8158	••••••[with unsaturated compounds having only one group containing active hydrogen]
C08G 18/8166	•••••••[with unsaturated monofunctional alcohols or amines]
C08G 18/8175	•••••••[with esters of acrylic or alkylacrylic acid having only one group containing active hydrogen]
C08G 18/8183	•••••••[with unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring]

C08G18 (Note, page 22, part 2): scope of the second symbol (part I)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/40	•••High-molecular-weight compounds (<u>C08G 18/2805</u> takes precedence)
C08G 18/4009	••••[Two or more macromolecular compounds not provided for in one single group of groups <u>C08G 18/42</u> to <u>C08G 18/64</u>]
C08G 18/4018	•••••[Mixtures of compounds of group <u>C08G 18/42</u> with compounds of group <u>C08G 18/48</u>]
C08G 18/4027	•••••[Mixtures of compounds of group <u>C08G 18/54</u> with other macromolecular compounds]
C08G 18/4036	•••••[Mixtures of compounds of group <u>C08G 18/56</u> with other macromolecular compounds]
C08G 18/4045	•••••[Mixtures of compounds of group <u>C08G 18/58</u> with other macromolecular compounds]
C08G 18/4054	•••••[Mixtures of compounds of group <u>C08G 18/60</u> with other macromolecular compounds]
C08G 18/4063	•••••[Mixtures of compounds of group <u>C08G 18/62</u> with other macromolecular compounds]
C08G 18/4072	•••••[Mixtures of compounds of group <u>C08G 18/63</u> with other macromolecular compounds]
C08G 18/4081	•••••[Mixtures of compounds of group <u>C08G 18/64</u> with other macromolecular compounds]
C08G 18/409	•••••[Dispersions of polymers of <u>C08G</u> in organic compounds having active hydrogen]
C08G 18/42	•••••Polycondensates having carboxylic or carbonic ester groups in the main chain

C08G18 (Note, page 22, part 2): scope of the second symbol (part II)

C08G 18/44	•••••Polycarbonates
C08G 18/46	•••••having heteroatoms other than oxygen
C08G 18/4607	•••••{having halogens}
C08G 18/4615	•••••{containing nitrogen}
C08G 18/4623	•••••{containing primary or secondary terminal aminogroups}
C08G 18/463	•••••{containing nitro groups}
C08G 18/4638	•••••{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/4646	•••••••{containing one nitrogen atom in the ring}
C08G 18/4653	•••••••{containing two nitrogen atoms in the ring}
C08G 18/4661	•••••••{containing three nitrogen atoms in the ring}
C08G 18/4669	•••••••{Addition products of unsaturated polyesters with amino compounds}
C08G 18/4676	•••••••{containing sulfur}
C08G 18/4684	•••••••{containing phosphorus}
C08G 18/4692	•••••••{containing silicon}
C08G 18/48	•••••Polyethers

C08G 18/50 •••••having heteroatoms other than oxygen

C08G18 (Note, page 22, part 2): scope of the second symbol (part III)

C08G 18/52	••••Polythioethers
C08G 18/54	••••Polycondensates of aldehydes
C08G 18/542	•••••{with phenols}
C08G 18/544	•••••{with nitrogen compounds}
C08G 18/546	•••••{Oxyalkylated polycondensates of aldehydes}
C08G 18/548	•••••{Polycondensates of aldehydes with ketones}
C08G 18/56	••••Polyacetals
C08G 18/58	••••Epoxy resins ({C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/003})
C08G 18/581	•••••{Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component } ({with amines C08G 18/584})
C08G 18/582	•••••{having halogens}
C08G 18/584	•••••{having nitrogen}
C08G 18/585	•••••{having sulfur}
C08G 18/587	•••••{having phosphorus}
C08G 18/588	•••••{having silicon}
C08G 18/60	••••Polyamides or polyester-amides
C08G 18/603	•••••{Polyamides}
C08G 18/606	•••••{Polyester-amides}
C08G 18/61	••••Polysiloxanes
C08G 18/615	•••••{containing carboxylic acid groups}
C08G 18/62	••••Polymers of compounds having carbon-to-carbon double bonds

C08G18 (Note, page 22, part 2): scope of the second symbol (part IV)

C08G 18/63	••••Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers
C08G 18/631	•••••[onto polyesters and/or polycarbonates]
C08G 18/632	•••••[onto polyethers]
C08G 18/633	•••••[onto polymers of compounds having carbon-to-carbon double bonds]
C08G 18/635	•••••[onto unsaturated polymers]
C08G 18/636	•••••[characterised by the presence of a dispersion-stabiliser]
C08G 18/637	•••••[characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates]
C08G 18/638	•••••[characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles]
C08G 18/64	••••Macromolecular compounds not provided for by groups <u>C08G 18/42</u> to <u>C08G 18/63</u>

C08G18 (Note, page 22, part 2): scope of the second symbol (part V)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (C08G 18/2805 takes precedence)
C08G 18/6505	••••{the low-molecular compounds being compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6511	•••••{compounds of group C08G 18/3203 }
C08G 18/6517	••••••{having at least three hydroxy groups}
C08G 18/6523	•••••••{Compounds of group C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38 }
C08G 18/6529	••••••••{Compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6535	•••••••••{Compounds of group C08G 18/3271 }
C08G 18/6541	•••••{the low-molecular compounds being compounds of group C08G 18/34 }
C08G 18/6547	••••••{the low-molecular compounds being compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
C08G 18/6552	•••••••{Compounds of group C08G 18/63 }
C08G 18/6558	•••••••••{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6564	••••••••••{with compounds of group C08G 18/3203 }
C08G 18/657	•••••••••••{with compounds of C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38 }
C08G 18/6576	••••••••••••{Compounds of group C08G 18/69 }
C08G 18/6582	•••••••••••••{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6588	••••••••••••••{with compounds of group C08G 18/3203 }
C08G 18/6594	•••••••••••••••{with compounds of C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38 }

C08G18 (Note, page 22, part 2): scope of the second symbol (part VI)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/65	•••Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (<u>{C08G 18/2805 takes precedence}</u>)
C08G 18/66	••••Compounds of groups <u>C08G 18/42</u> , <u>C08G 18/48</u> , or <u>C08G 18/52</u>
C08G 18/6603	••••• <u>{with compounds of group C08G 18/32 or polyamines of C08G 18/38}</u>
C08G 18/6607	•••••• <u>{with compounds of group C08G 18/3203}</u>
C08G 18/6611	••••••• <u>{having at least three hydroxy groups}</u>
C08G 18/6614	••••••• <u>{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38}</u>
C08G 18/6618	•••••••• <u>{with compounds of group C08G 18/3225 or polyamines of C08G 18/38}</u>
C08G 18/6622	•••••••• <u>{with compounds of group C08G 18/3271}</u>
C08G 18/6625	•••••• <u>{with compounds of group C08G 18/34}</u>
C08G 18/6629	•••••• <u>{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38}</u>
C08G 18/6633	•••••• <u>{Compounds of group C08G 18/42}</u>
C08G 18/6637	••••••• <u>{with compounds of group C08G 18/32 or polyamines of C08G 18/38}</u>
C08G 18/664	•••••••• <u>{with compounds of group C08G 18/3203}</u>
C08G 18/6644	••••••••• <u>{having at least three hydroxy groups}</u>
C08G 18/6648	••••••••• <u>{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38}</u>
C08G 18/6651	•••••••••• <u>{with compounds of group C08G 18/3225 or polyamines of C08G 18/38}</u>
C08G 18/6655	•••••••••• <u>{with compounds of group C08G 18/3271}</u>
C08G 18/6659	••••••• <u>{with compounds of group C08G 18/34}</u>
C08G 18/6662	••••••• <u>{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38}</u>
C08G 18/6666	•••••• <u>{Compounds of group C08G 18/48 or C08G 18/52}</u>
C08G 18/667	••••••• <u>{with compounds of group C08G 18/32 or polyamines of C08G 18/38}</u>
C08G 18/6674	•••••••• <u>{with compounds of group C08G 18/3203}</u>
C08G 18/6677	••••~••••• <u>{having at least three hydroxy groups}</u>
C08G 18/6681	••~••••••• <u>{with compounds of group C08G 18/32 or C08G 18/3271 and/or polyamines of C08G 18/38}</u>
C08G 18/6685	•••••••••• <u>{with compounds of group C08G 18/3225 or polyamines of C08G 18/38}</u>
C08G 18/6688	•••••••••• <u>{with compounds of group C08G 18/3271}</u>
C08G 18/6692	••••••• <u>{with compounds of group C08G 18/34}</u>
C08G 18/6696	••••••• <u>{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38}</u>

C08G18 (Note, page 22, part 2): scope of the second symbol (part VII)

C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific <u>C08J</u>)
C08G 18/06	•with compounds having active hydrogen
C08G 18/28	••characterised by the compounds used containing active hydrogen
C08G 18/67	•••Unsaturated compounds having active hydrogen
C08G 18/6705	••••{Unsaturated polymers not provided for in the groups <u>C08G 18/671</u> , <u>C08G 18/6795</u> , <u>C08G 18/68</u> or <u>C08G 18/69</u> }
C08G 18/679	•••••{Acetylenic compounds}
C08G 18/6795	•••••{Unsaturated polyethers}
C08G 18/68	•••••Unsaturated polyesters
C08G 18/683	•••••{containing cyclic groups}
C08G 18/686	••••••{containing cycloaliphatic groups}
C08G 18/69	•••••Polymers of conjugated dienes {hydrogenated polymers of conjugated dienes <u>C08G 18/6208</u> }
C08G 18/692	••••••{containing carboxylic acid groups}
C08G 18/694	••••••{containing carboxylic ester groups}
C08G 18/696	•••••••{containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers}
C08G 18/698	•••••••{Mixtures with compounds of group <u>C08G 18/40</u> }

Guidance & comments (I)

- ❑ **Classification/indexing in C08G18** such as, e.g. the allocation of Combination sets, is **based on the Examples** of the document to be classified
- ❑ The Combination sets are to be assigned as invention information (**INV.**)
- ❑ **In the absence of Examples, Combination sets are usually not allocated**, unless the claims and/or description provide(s) information worthwhile to be retrieved during a later search and which can be indexed in the form of an authorized Combination set
- ❑ **The allocation of “binary” Combination sets is mandatory in the relevant subgroups of C08G18/00 whenever applicable**, in view of the disclosure of the Examples and while having regard to the authorized combinations which have been detailed above
- ❑ When documents are classified in subgroups of C08G18 (as Combination sets or not), the relevant “orthogonal” indexing Codes of C08G are added as additional information (**ADD.**)
- the **Codes are selected from the ranges C08G2101/00 to C08G2250/00 and C08G2270/00 to C08G2410/00**

Guidance & comments (II)

- ❑ For the purpose of the classification/indexing in group C08G18, **prepolymers should be clearly distinguished from masked isocyanates.**
- **Prepolymers** are compounds wherein the iso(thio)cyanate has reacted with a reactant having a **high molecular weight** (around 1000 or higher) so that the resulting compounds would be considered to be at least an oligomer.
- **Masked iso(thio)cyanates** (even if they are happen to be qualified as prepolymers in a document to be classified) are compounds wherein the iso(thio)cyanate has reacted with a reactant of **low molecular weight** and which would not be considered as an oligomer or polymer by a person skilled in the art.

Examples involving Combination sets in C08G18

□ Example 1: US2013/0202859

- Solution: (in view of Combination sets with C08G18 and associated indexing codes)
- Combination Set: C08G18/12, C08G18/3234 (INV.)
- Combination Set: C08G18/12, C08G18/282 (INV.)

□ Example 2: US2013/0274365

- Solution: (in view of Combination-sets with C08G18 and associated indexing codes)
- Combination Set: C08G18/10, C08G18/6674 (INV.)
- Combination Set: C08G18/10, C08G18/40 (INV.)
- Combination Set: C08G18/10, C08G18/6564 (INV.)

& Single Symbol indexing codes:

C08G2101/0008 (ADD.); C08G2101/0066 (ADD.);

~~C08G2101/0083 (ADD.); C08G2380/00 (ADD.); C08G2410/00 (ADD.)~~

Examples involving Combination sets in C08G18

□ Example 3: US2013/0165544

➤ Solution: (only Combination sets with C08G18 and associated indexing codes)

- Combination Set: C08G18/12, C08G18/6564 (INV.)
- Combination Set: C08G18/12, C08G18/40 (INV.)
- Combination Set: C08G18/12, C08G18/6674 (INV.)

& Single symbol indexing codes:

C08G2101/0008 (ADD.); C08G2101/0083 (ADD.)

□ Example 4: US2013/0085202

➤ Solution: (only Combination sets with C08G18 and associated indexing codes)

- Combination Set: C08G18/672, C08G18/44 (INV.)

& Single Symbol indexing codes:

C08G2170/40 (ADD.)

Examples involving Combination sets in C08G18

□ Example 5: **US2013/0012670**

➤ Solution: (only Combination sets with C08G18 and associated indexing codes)

- Combination Set: **C08G18/10**, **C08G18/58** (INV.)

& Single Symbol indexing codes:

C08G2190/00 (ADD.)

Recapitulative table: Combination sets in C08G18 (part I)

Base symbol selected from:	C08G18/10 or C08G18/12
Prepolymer processes involving reaction of iso(thio)cyanates with compounds having active hydrogen in a first reaction step (not masked)	
Second symbol selected from:	C08G18/2805, C08G18/30 to C08G18/38 <i>(with all subnotations);</i> C08G18/40 to C08G18/64 (without sub-notations); C08G18/65 to C08G18/66, C08G18/70 to C08G18/80 (with all subnotations)
Compounds used having active hydrogen	
Number of symbols in a valid Combination Set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00 to C08G2250/00, C08G2270/00 to C08G2410/00

Recapitulative table: Combination sets in C08G18 (part II)

Base symbol selected from:	C08G18/10 or C08G18/12
Prepolymer processes involving reaction of iso(thio)cyanates with compounds having active hydrogen in a first reaction step (not masked)	
Second symbol selected from:	C08G18/02 (with all sub-notations), C08G18/09 (with all sub-notations)
Polymerisation/oligomerisation of iso(thio)cyanates involved	
Number of symbols in a valid Combination set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00 to C08G2250/00, C08G2270/00 to C08G2410/00

Recapitulative table: Combination sets in C08G18 (part III)

Base symbol selected from:	C08G18/67, C08G18/671, C08G18/6715, C08G18/672, C08G18/6735 to C08G18/679
Unsaturated compounds having active hydrogen	
Second symbol selected from:	C08G18/0804-C08G18/0833
Manufacture of polymers containing ionic or ionogenic groups	
Number of symbols in a valid Combination set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00-C08G2250/00, C08G2270/00-C08G2410/00

Recapitulative table: Combination sets in C08G18 (part IV)

Base symbol selected from:	C08G18/671, C08G18/6715, C08G18/672
Unsaturated compounds having only one group containing active hydrogen	
Second symbol selected from:	C08G18/40 to C08G18/64 (without sub-notations); C08G18/65 to C08G18/66, C08G18/6705, C08G18/6795 to C08G18/69 (with all sub-notations)
Other compounds used having active hydrogen	
Number of symbols in a valid Combination set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00-C08G2250/00, C08G2270/00-C08G2410/00

Recapitulative table: Combination sets in C08G18 (part V)

Base symbol selected from:	C08G18/81 to C08G18/8191
Unsaturated iso(thio)cyanates	
Second symbol selected from:	C08G18/0804 to C08G18/0833
Manufacture of polymers containing ionic or ionogenic groups	
Number of symbols in a valid Combination set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00-C08G2250/00, C08G2270/00-C08G2410/00

Recapitulative table: Combination sets in C08G18 (part VI)

Base symbol selected from:	C08G18/8158 to C08G18/8175
Unsaturated iso(thio)cyanates masked with unsaturated compounds having only group containing active hydrogen	
Second symbol selected from:	C08G18/40 to C08G18/64 (without sub-notations); C08G18/65 to C08G18/66, C08G18/6705, C08G18/6795 to C08G18/69 (with all sub-notations)
Other compounds used having active hydrogen	
Number of symbols in a valid Combination set:	2
Combination set is of the type:	INV.
Allocation of Combination set(s) is:	Mandatory
Combination sets usually allocated for:	Examples
Multiple indexing:	Yes
Associated unlinked indexing code(s):	C08G2101/00-C08G2250/00, C08G2270/00-C08G2410/00