

C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

C09K MATERIALS FOR APPLICATIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

- (1) This subclass covers also the use of specified materials in general or their use for the applications not specifically provided for elsewhere.
- (2) In this subclass, the following term is used with the meaning indicated:
- “materials” includes compositions. [4]

3/00	Materials not provided for elsewhere [2]	8/00	Compositions for drilling of boreholes or wells; Compositions for treating boreholes or wells, e.g. for completion or for remedial operations [8]
3/10	. for sealing or packing joints or covers (filling pastes C09D 5/34)	8/02	. Well-drilling compositions [8]
3/12	. for stopping leaks, e.g. in radiators, in tanks (filling pastes C09D 5/34)		
3/14	. Anti-slip materials; Abrasives (manufacture of abrasive or friction articles or shaped materials, containing macromolecular substances C08J 5/14) [4]		In groups C09K 8/03 C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. [8]
3/16	. Anti-static materials [4]		
3/18	. for application to surface to minimize adherence of ice, mist or water thereto (rendering particulate materials free flowing, in general, e.g. making them hydrophobic, B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) [4]	8/03	. . Specific additives for general use in well-drilling compositions [8]
3/20	. as substitutes for glycerol in its non-chemical uses, e.g. as a base in toilet creams or ointments	8/035	. . . Organic additives [8]
3/22	. for dust-laying or dust-absorbing [4]	8/04	. . Aqueous well-drilling compositions [8]
3/24	. for simulating ice or snow [4]	8/05	. . . containing inorganic compounds only, e.g. mixtures of clay and salt [8]
3/30	. for aerosols (aerosol containers B65D 83/14) [4]	8/06	. . . Clay-free compositions (containing inorganic compounds only C09K 8/05) [8]
3/32	. for treating liquid pollutants, e.g. oil, gasoline, fat (solid sorbent compositions B01J 20/00; for treatment of water, waste water or sewage C02F)	8/08	 containing natural organic compounds, e.g. polysaccharides, or derivatives thereof [8]
5/00	Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion [2]	8/10	 Cellulose or derivatives thereof [8]
5/02	. Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) [2]	8/12	 containing synthetic organic macromolecular compounds or their precursors [8]
5/04	. . the change of state being from liquid to vapour or <u>vice-versa</u> [2]	8/14	 Clay-containing compositions (containing inorganic compounds only C09K 8/05) [8]
5/06	. . the change of state being from liquid to solid or <u>vice-versa</u> [2]	8/16	 characterised by the inorganic compounds other than clay [8]
5/08	. Materials not undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) [7]	8/18	 characterised by the organic compounds [8]
5/10	. . Liquid materials [7]	8/20	 Natural organic compounds or derivatives thereof, e.g. polysaccharides or lignin derivatives [8]
5/12	. . . Molten materials, i.e. materials solid at room temperature, e.g. metals or salts [7]	8/22	 Synthetic organic compounds [8]
5/14	. . Solid materials, e.g. powdery or granular [7]	8/24	 Polymers [8]
5/16	. Materials undergoing chemical reactions when used [7]	8/26	 Oil-in-water emulsions [8]
5/18	. . Non-reversible chemical reactions [7]	8/28	 containing organic additives [8]
5/20	. Antifreeze additives therefor, e.g. for radiator liquids (for application to surfaces C09K 3/18; inhibiting corrosion by liquids C23F 11/00) [7]	8/32	. . Non-aqueous well-drilling compositions, e.g. oil-based [8]
		8/34	. . . Organic liquids [8]
		8/36	. . . Water-in-oil emulsions [8]
		8/38	. . Gaseous or foamed well-drilling compositions [8]
		8/40	. Spacer compositions, e.g. compositions used to separate well-drilling from cementing masses [8]
		8/42	. Compositions for cementing, e.g. for cementing casings into boreholes; Compositions for plugging, e.g. for killing wells (compositions for plastering C09K 8/50) [8]
		8/44	. . containing organic binders only [8]

- 8/46 . . . containing inorganic binders, e.g. Portland cement [8]
 - 8/467 . . . containing additives for specific purposes [8]
 - 8/473 Density reducing additives, e.g. for obtaining foamed cement compositions [8]
 - 8/48 Density increasing or weighting additives [8]
 - 8/487 Fluid loss control additives; Additives for reducing or preventing circulation loss [8]
 - 8/493 Additives for reducing or preventing gas migration [8]
 - 8/50 . Compositions for plastering borehole walls, i.e. compositions for temporary consolidation of borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) [8]
 - 8/502 . . Oil-based compositions [8]
 - 8/504 . . Compositions based on water or polar solvents (C09K 8/502 takes precedence) [8]
 - 8/506 . . . containing organic compounds [8]
 - 8/508 macromolecular compounds [8]
 - 8/512 containing cross-linking agents [8]
 - 8/514 of natural origin, e.g. polysaccharides, cellulose (C09K 8/512 takes precedence) [8]
 - 8/516 . . characterised by their form or by the form of their components, e.g. encapsulated material [8]
 - 8/518 . . . Foams [8]
 - 8/52 . Compositions for preventing, limiting or eliminating depositions, e.g. for cleaning [8]
 - 8/524 . . organic depositions, e.g. paraffins or asphaltenes [8]
 - 8/528 . . inorganic depositions, e.g. sulfates or carbonates [8]
 - 8/532 . . . Sulfur [8]
 - 8/536 . . characterised by their form or by the form of their components, e.g. encapsulated material [8]
 - 8/54 . Compositions for in situ inhibition of corrosion in boreholes or wells [8]
 - 8/56 . Compositions for consolidating loose sand or the like around wells without excessively decreasing the permeability thereof (compositions for plastering borehole walls C09K 8/50) [8]
 - 8/565 . . Oil-based compositions [8]
 - 8/57 . . Compositions based on water or polar solvents (C09K 8/565 takes precedence) [8]
 - 8/575 . . . containing organic compounds [8]
 - 8/58 . Compositions for enhanced recovery methods for obtaining hydrocarbons, i.e. for improving the mobility of the oil, e.g. displacing fluids [8]
 - 8/582 . . characterised by the use of bacteria [8]
 - 8/584 . . characterised by the use of specific surfactants [8]
 - 8/588 . . characterised by the use of specific polymers [8]
 - 8/592 . . Compositions used in combination with generated heat, e.g. by steam injection [8]
 - 8/594 . . Compositions used in combination with injected gas (C09K 8/592 takes precedence) [8]
 - 8/60 . Compositions for stimulating production by acting on the underground formation [8]
 - 8/62 . . Compositions for forming crevices or fractures [8]
 - 8/64 . . . Oil-based compositions [8]
 - 8/66 . . . Compositions based on water or polar solvents (C09K 8/64 takes precedence) [8]
 - 8/68 containing organic compounds [8]
 - 8/70 . . . characterised by their form or by the form of their components, e.g. foams [8]
 - 8/72 . . . Eroding chemicals, e.g. acids [8]
 - 8/74 combined with additives added for specific purposes [8]
 - 8/76 for preventing or reducing fluid loss [8]
 - 8/78 for preventing sealing [8]
 - 8/80 . . Compositions for reinforcing fractures, e.g. compositions of proppants used to keep the fractures open [8]
 - 8/82 . . Oil-based compositions (C09K 8/64 takes precedence) [8]
 - 8/84 . . Compositions based on water or polar solvents (C09K 8/66, C09K 8/82 take precedence) [8]
 - 8/86 . . . containing organic compounds [8]
 - 8/88 macromolecular compounds [8]
 - 8/90 of natural origin, e.g. polysaccharides, cellulose [8]
 - 8/92 . . characterised by their form or by the form of their components, e.g. encapsulated material (C09K 8/70 takes precedence) [8]
 - 8/94 . . . Foams [8]
 - 9/00 Tenebrescent materials, i.e. materials for which the range of wavelengths for energy adsorption is changed as a result of excitation by some form of energy** (photosensitive materials for photographic purposes G03C) [2]
 - 9/02 . Organic tenebrescent materials [2]
 - 11/00 Luminescent, e.g. electroluminescent, chemiluminescent, materials** [2]
 - 11/01 . Recovery of luminescent materials [3]
 - 11/02 . Use of particular materials as binders, particle coatings or suspension media therefor [2]
 - 11/04 . containing natural or artificial radioactive elements or unspecified radioactive elements [2]
 - 11/06 . containing organic luminescent materials [2]
 - 11/07 . . having chemically-interreactive components, e.g. reactive chemiluminescent compositions [3]
 - 11/08 . containing inorganic luminescent materials [2]
- In groups C09K 11/54 C09K 11/89, in the absence of an indication to the contrary, materials are classified in the last appropriate place; however, activating constituents of the luminescent materials are disregarded for classification purposes. [4]
- 11/54 . . containing zinc or cadmium [4]
 - 11/55 . . containing beryllium, magnesium, alkali metals or alkaline earth metals [4]
 - 11/56 . . containing sulfur [4]
 - 11/57 . . containing manganese or rhenium [4]
 - 11/58 . . containing copper, silver or gold [4]
 - 11/59 . . containing silicon [4]
 - 11/60 . . containing iron, cobalt or nickel [4]
 - 11/61 . . containing fluorine, chlorine, bromine, iodine or unspecified halogen elements [4]
 - 11/62 . . containing gallium, indium or thallium [4]
 - 11/63 . . containing boron [4]
 - 11/64 . . containing aluminium [4]
 - 11/65 . . containing carbon (in organic compounds C09K 11/06) [4]
 - 11/66 . . containing germanium, tin or lead [4]
 - 11/67 . . containing refractory metals [4]
 - 11/68 . . . containing chromium, molybdenum or tungsten [4]
 - 11/69 . . . containing vanadium [4]

- 11/70 . . . containing phosphorus [4]
- 11/71 . . . also containing alkaline earth metals [4]
- 11/72 . . . also containing halogen, e.g. halophosphates [4]
- 11/73 . . . also containing alkaline earth metals [4]
- 11/74 . . . containing arsenic, antimony or bismuth [4]
- 11/75 . . . containing antimony [4]
- 11/76 . . . also containing phosphorus and halogen, e.g. halophosphates [4]
- 11/77 . . . containing rare earth metals [4]
- 11/78 . . . containing oxygen [4]
- 11/79 . . . containing silicon [4]
- 11/80 . . . containing aluminium or gallium [4]
- 11/81 . . . containing phosphorus [4]
- 11/82 . . . containing vanadium [4]
- 11/83 . . . containing vanadium and phosphorus [4]
- 11/84 . . . containing sulfur, e.g. oxysulfides [4]
- 11/85 . . . containing halogen [4]
- 11/86 . . . containing oxygen and halogen, e.g. oxyhalides [4]
- 11/87 . . . containing platinum group metals [4]
- 11/88 . . . containing selenium, tellurium or unspecified chalcogen elements [4]
- 11/89 . . . containing mercury [4]

13/00 Etching, surface-brightening or pickling compositions (for glass C03C 15/00; for metallic material C23F, C23G 1/00, C25F 1/00) [2]

In groups C09K 13/02 C09K 13/12, a composition is classified in the last appropriate place. [2]

- 13/02 . . . containing an alkali metal hydroxide [2]
- 13/04 . . . containing an inorganic acid [2]
- 13/06 . . . with organic material [2]
- 13/08 . . . containing a fluorine compound [2]
- 13/10 . . . containing a boron compound [2]
- 13/12 . . . containing heavy metal salts in an amount of at least 50% of the non-solvent components [2]

15/00 Anti-oxidant compositions; Compositions inhibiting chemical change (incorporated in foodstuffs A21D, A23; incorporated in macromolecular compositions C08; incorporated in liquid fuels or lubricants C10; incorporated in fats, fatty substances, fatty oils or waxes C11B 5/00; incorporated in detergents C11D; corrosion inhibiting compositions for metallic material C23F 11/00; incorporated in pickling compositions for metallic materials C23G) [4]

- (1) In groups C09K 15/02 C09K 15/34, in the absence of an indication to the contrary, a composition is classified in the last appropriate place. [2]
- (2) In groups C09K 15/02 C09K 15/34, a metal salt of an organic compound is classified as that compound. [2]

- 15/02 . . . containing inorganic compounds [2]
- 15/04 . . . containing organic compounds [2]
- 15/06 . . . containing oxygen [2]
- 15/08 . . . containing a phenol or quinone moiety [2]
- 15/10 . . . containing sulfur [2]
- 15/12 . . . containing sulfur and oxygen [2]
- 15/14 . . . containing a phenol or quinone moiety [2]

- 15/16 . . . containing nitrogen [2]
- 15/18 . . . containing an amine or imine moiety [2]
- 15/20 . . . containing nitrogen and oxygen [2]
- 15/22 . . . containing an amide or imide moiety [2]
- 15/24 . . . containing a phenol or quinone moiety [2]
- 15/26 . . . containing nitrogen and sulfur [2]
- 15/28 . . . containing nitrogen, oxygen and sulfur [2]
- 15/30 . . . containing heterocyclic ring with at least one nitrogen atom as ring member [2]
- 15/32 . . . containing boron, silicon, phosphorus, selenium, tellurium or a metal [2]
- 15/34 . . . containing plant or animal materials of unknown composition [2]

17/00 Soil-conditioning materials or soil-stabilising materials (specially adapted for boreholes or wells C09K 8/00; fertilisers C05; consolidating by placing solidifying or pore-filling substances in the soil E02D 3/12) [3]

- (1) This group covers mixtures of soil-conditioning or soil-stabilising materials with fertilisers characterised by their soil-conditioning or soil-stabilising activity. [6]
- (2) This group does not cover mixtures of soil-conditioning or soil-stabilising materials with fertilisers characterised by their fertilising activity which are covered by subclass C05G. [6]
- (3) For the purpose of classification in this group, the presence of fertilisers in the composition is not taken into account. [6]
- (4) In groups C09K 17/02 C09K 17/40, in the absence of an indication to the contrary, materials are classified in the last appropriate place.

In this group, it is desirable to add the indexing codes of groups C09K 101/00 C09K 109/00. [6]

- 17/02 . . . containing inorganic compounds only [6]
- 17/04 . . . applied in a physical form other than a solution or a grout, e.g. as granules or gases [6]
- 17/06 . . . Calcium compounds, e.g. lime [6]
- 17/08 . . . Aluminium compounds, e.g. aluminium hydroxide [6]
- 17/10 . . . Cements, e.g. Portland cement [6]
- 17/12 . . . Water-soluble silicates, e.g. waterglass [6]
- 17/14 . . . containing organic compounds only [6]
- 17/16 . . . applied in a physical form other than a solution or a grout, e.g. as platelets or granules [6]
- 17/18 . . . Prepolymers; Macromolecular compounds [6]
- 17/20 . . . Vinyl polymers [6]
- 17/22 . . . Polyacrylates; Polymethacrylates [6]
- 17/24 . . . Condensation polymers of aldehydes or ketones [6]
- 17/26 . . . Phenol-aldehyde condensation polymers [6]
- 17/28 . . . Urea-aldehyde condensation polymers [6]
- 17/30 . . . Polyisocyanates; Polyurethanes [6]
- 17/32 . . . of natural origin, e.g. cellulosic materials [6]
- 17/34 . . . Bituminous materials [6]
- 17/36 . . . Compounds having one or more carbon-to-silicon linkages [6]
- 17/38 . . . Siloxanes [6]
- 17/40 . . . containing mixtures of inorganic and organic compounds [6]

C09K

- 17/42 . . . Inorganic compounds mixed with organic active ingredients, e.g. accelerators [6]
- 17/44 . . . the inorganic compound being cement [6]
- 17/46 . . . the inorganic compound being a water-soluble silicate [6]
- 17/48 . . . Organic compounds mixed with inorganic active ingredients, e.g. polymerisation catalysts [6]
- 17/50 . . . the organic compound being of natural origin, e.g. cellulose derivatives [6]
- 17/52 . Mulches [6]

19/00 Liquid crystal materials [4]

In groups C09K 19/02 C09K 19/52 in the absence of an indication to the contrary, materials are classified in the last appropriate place. [4]

- 19/02 . characterised by optical, electrical or physical properties of the components, in general [4]
- 19/04 . characterised by the chemical structure of the liquid crystal components [4]
- 19/06 . . Non-steroidal liquid crystal compounds [4]
- 19/08 . . . containing at least two non-condensed rings [4]
- 19/10 containing at least two benzene rings [4]
- 19/12 at least two benzene rings directly linked, e.g. biphenyls [4]
- 19/14 linked by a carbon chain [4]
- 19/16 the chain containing carbon-to-carbon double bonds, e.g. stilbenes [4]
- 19/18 the chain containing carbon-to-carbon triple bonds, e.g. tolans [4]
- 19/20 linked by a chain containing carbon and oxygen atoms as chain links, e.g. esters [4]
- 19/22 linked by a chain containing carbon and nitrogen atoms as chain links, e.g. Schiff bases [4]
- 19/24 linked by a chain containing nitrogen-to-nitrogen bonds [4]
- 19/26 Azoxy compounds [4]
- 19/28 linked by a chain containing carbon and sulfur atoms as chain links, e.g. thioesters [4]
- 19/30 containing saturated or unsaturated non-aromatic rings, e.g. cyclohexane rings [4]
- 19/32 . . . containing condensed ring systems, i.e. fused, bridged or spiro ring systems [4]
- 19/34 . . . containing at least one heterocyclic ring [4]
- 19/36 . . Steroidal liquid crystal compounds [4]
- 19/38 . . Polymers, e.g. polyamides [4]
- 19/40 . . containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen or sulfur, e.g. silicon, metals [4]

- 19/42 . . . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 C09K 19/40 [4]

- (1) This group does not cover mixtures containing two or more liquid crystal compounds covered individually by the same one of groups C09K 19/04 C09K 19/40 which are classified only in that group. [4]
- (2) If liquid crystal components of the mixtures classified in this group are of interest as such, they are also classified according to the compounds in groups C09K 19/04 C09K 19/40. [4]

- 19/44 . . . containing compounds with benzene rings directly linked [4]
- 19/46 . . . containing esters [4]
- 19/48 . . . containing Schiff bases [4]
- 19/50 . . . containing steroidal liquid crystal compounds [4]
- 19/52 . characterised by components which are not liquid crystals, e.g. additives [4]
- 19/54 . . Additives having no specific mesophase [4]
- 19/56 . . . Aligning agents [4]
- 19/58 . . Dopants or charge transfer agents [4]
- 19/60 . . Pleochroic dyes [4]

21/00 Fireproofing materials (for use in a particular application, see the relevant places, e.g. fireproofing of wood B27K, of polymers C08, of textiles D06M, of paper D21H; fireproof paints C09D 5/18) [4]

In groups C09K 21/02 C09K 21/14, in the absence of an indication to the contrary, materials are classified in the last appropriate place. [4]

- 21/02 . Inorganic materials [4]
- 21/04 . . containing phosphorus [4]
- 21/06 . Organic materials [4]
- 21/08 . . containing halogen [4]
- 21/10 . . containing nitrogen [4]
- 21/12 . . containing phosphorus [4]
- 21/14 . Macromolecular materials [4]

Indexing scheme associated with group C09K 17/00, relating to the use or the intended effect of the soil-conditioning or soil-stabilising materials. [6]

- 101/00 Agricultural use [6]
- 103/00 Civil engineering use [6]
- 105/00 Erosion prevention [6]
- 107/00 Impermeabilisation [6]
- 109/00 pH regulation [6]