

| Symbol | Typ | Titel |
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| C | Sektion | CHEMISTRY; METALLURGY |
| C03 | Klasse | GLASS; MINERAL OR SLAG WOOL |
| C03C | Unterkategorie | CHEMICAL COMPOSITION OF GLASSES, GLAZES, OR VITREOUS ENAMELS; SURFACE TREATMENT OF GLASS; SURFACE TREATMENT OF FIBRES OR FILAMENTS FROM GLASS, MINERALS OR SLAGS; JOINING GLASS TO GLASS OR OTHER MATERIALS |
| | | <u>Chemical composition of glasses, glazes, or vitreous enamels</u> |
| C03C 1/00 | Hauptgruppe | Ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels |
| C03C 1/02 | 1-Punkt Untergruppe | . Pretreated ingredients |
| C03C 1/04 | 1-Punkt Untergruppe | . Opacifiers, e.g. fluorides or phosphates; Pigments |
| C03C 1/06 | 2-Punkt Untergruppe | .. to produce non-uniformly pigmented, e.g. speckled, marbled, or veined products |
| C03C 1/08 | 1-Punkt Untergruppe | . to produce crackled effects |
| C03C 1/10 | 1-Punkt Untergruppe | . to produce uniformly-coloured transparent products |
| C03C 3/00 | Hauptgruppe | Glass compositions (glass batch compositions C03C 6/00) [4] |
| C03C 3/04 | 1-Punkt Untergruppe | . containing silica [4] |
| C03C 3/06 | 2-Punkt Untergruppe | .. with more than 90% silica by weight, e.g. quartz |
| C03C 3/062 | 2-Punkt Untergruppe | .. with less than 40% silica by weight [4] |
| C03C 3/064 | 3-Punkt Untergruppe | ... containing boron [4] |
| C03C 3/066 | 4-Punkt Untergruppe | containing zinc [4] |
| C03C 3/068 | 4-Punkt Untergruppe | containing rare earths [4] |
| C03C 3/07 | 3-Punkt Untergruppe | ... containing lead [4] |
| C03C 3/072 | 4-Punkt Untergruppe | containing boron [4] |
| C03C 3/074 | 5-Punkt Untergruppe | containing zinc [4] |
| C03C 3/076 | 2-Punkt Untergruppe | .. with 40% to 90% silica by weight [4] |
| C03C 3/078 | 3-Punkt Untergruppe | ... containing an oxide of a divalent metal, e.g. an oxide of zinc [4] |
| C03C 3/083 | 3-Punkt Untergruppe | ... containing aluminium oxide or an iron compound [4] |
| C03C 3/085 | 4-Punkt Untergruppe | containing an oxide of a divalent metal [4] |
| C03C 3/087 | 5-Punkt Untergruppe | containing calcium oxide, e.g. common sheet or container glass [4] |
| C03C 3/089 | 3-Punkt Untergruppe | ... containing boron [4] |
| C03C 3/091 | 4-Punkt Untergruppe | containing aluminium [4] |
| C03C 3/093 | 5-Punkt Untergruppe | containing zinc or zirconium [4] |
| C03C 3/095 | 3-Punkt Untergruppe | ... containing rare earths [4] |
| C03C 3/097 | 3-Punkt Untergruppe | ... containing phosphorus, niobium or tantalum [4] |
| C03C 3/102 | 3-Punkt Untergruppe | ... containing lead [4] |

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| C03C 3/105 | 4-Punkt Untergruppe | containing aluminium [4] |
| C03C 3/108 | 4-Punkt Untergruppe | containing boron [4] |
| C03C 3/11 | 3-Punkt Untergruppe | ... containing halogen or nitrogen [4] |
| C03C 3/112 | 4-Punkt Untergruppe | containing fluorine [4] |
| C03C 3/115 | 5-Punkt Untergruppe | containing boron [4] |
| C03C 3/118 | 6-Punkt Untergruppe | containing aluminium [4] |
| C03C 3/12 | 1-Punkt Untergruppe | . Silica-free oxide glass compositions [4] |
| C03C 3/14 | 2-Punkt Untergruppe | .. containing boron [4] |
| C03C 3/145 | 3-Punkt Untergruppe | ... containing aluminium or beryllium [4] |
| C03C 3/15 | 3-Punkt Untergruppe | ... containing rare earths [4] |
| C03C 3/155 | 4-Punkt Untergruppe | containing zirconium, titanium, tantalum or niobium [4] |
| C03C 3/16 | 2-Punkt Untergruppe | .. containing phosphorus [4] |
| C03C 3/17 | 3-Punkt Untergruppe | ... containing aluminium or beryllium [4] |
| C03C 3/19 | 3-Punkt Untergruppe | ... containing boron [4] |
| C03C 3/21 | 3-Punkt Untergruppe | ... containing titanium, zirconium, vanadium, tungsten or molybdenum [4] |
| C03C 3/23 | 2-Punkt Untergruppe | .. containing halogen and at least one oxide, e.g. oxide of boron [4] |
| C03C 3/247 | 3-Punkt Untergruppe | ... containing fluorine and phosphorus [4] |
| C03C 3/253 | 2-Punkt Untergruppe | .. containing germanium [4] |
| C03C 3/32 | 1-Punkt Untergruppe | . Non-oxide glass compositions, e.g. binary or ternary halides, sulfides, or nitrides of germanium, selenium or tellurium [4] |
| C03C 4/00 | Hauptgruppe | Compositions for glass with special properties [4] |
| C03C 4/02 | 1-Punkt Untergruppe | . for coloured glass [4] |
| C03C 4/04 | 1-Punkt Untergruppe | . for photosensitive glass [4] |
| C03C 4/06 | 2-Punkt Untergruppe | .. for phototropic or photochromic glass [4] |
| C03C 4/08 | 1-Punkt Untergruppe | . for glass selectively absorbing radiation of specified wave lengths [4] |
| C03C 4/10 | 1-Punkt Untergruppe | . for infra-red transmitting glass [4] |
| C03C 4/12 | 1-Punkt Untergruppe | . for luminescent glass; for fluorescent glass [4] |
| C03C 4/14 | 1-Punkt Untergruppe | . for electro-conductive glass [4] |
| C03C 4/16 | 1-Punkt Untergruppe | . for dielectric glass [4] |
| C03C 4/18 | 1-Punkt Untergruppe | . for ion-sensitive glass [4] |
| C03C 4/20 | 1-Punkt Untergruppe | . for chemical resistant glass [4] |
| C03C 6/00 | Hauptgruppe | Glass batch compositions (single ingredients of batch compositions C03C 1/00) [4] |
| C03C 6/02 | 1-Punkt Untergruppe | . containing silicates, e.g. cullet [4] |

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| C03C 6/04 | 1-Punkt Untergruppe | . containing uncombined silica, e.g. sand [4] |
| C03C 6/06 | 1-Punkt Untergruppe | . containing halogen compounds [4] |
| C03C 6/08 | 1-Punkt Untergruppe | . containing pellets or agglomerates [4] |
| C03C 6/10 | 1-Punkt Untergruppe | . containing slag [4] |
| C03C 8/00 | Hauptgruppe | Enamels; Glazes (cold glazes for ceramics C04B 41/86); Fusion seal compositions being frit compositions having non-frit additions [4] |
| C03C 8/02 | 1-Punkt Untergruppe | . Frit compositions, i.e. in a powdered or comminuted form [4] |
| C03C 8/04 | 2-Punkt Untergruppe | .. containing zinc [4] |
| C03C 8/06 | 2-Punkt Untergruppe | .. containing halogen [4] |
| C03C 8/08 | 2-Punkt Untergruppe | .. containing phosphorus [4] |
| C03C 8/10 | 2-Punkt Untergruppe | .. containing lead [4] |
| C03C 8/12 | 3-Punkt Untergruppe | ... containing titanium or zirconium [4] |
| C03C 8/14 | 1-Punkt Untergruppe | . Glass frit mixtures having non-frit additions, e.g. opacifiers, colorants, mill additions [4] |
| C03C 8/16 | 2-Punkt Untergruppe | .. with vehicle or suspending agents, e.g. slip [4] |
| C03C 8/18 | 2-Punkt Untergruppe | .. containing free metals [4] |
| C03C 8/20 | 2-Punkt Untergruppe | .. containing titanium compounds; containing zirconium compounds [4] |
| C03C 8/22 | 1-Punkt Untergruppe | . containing two or more distinct frits having different compositions [4] |
| C03C 8/24 | 1-Punkt Untergruppe | . Fusion seal compositions being frit compositions having non-frit additions, i.e. for use as seals between dissimilar materials, e.g. glass and metal; Glass solders [4] |
| C03C 10/00 | Hauptgruppe | Devitrified glass ceramics, i.e. glass ceramics having a crystalline phase dispersed in a glassy phase and constituting at least 50% by weight of the total composition [4] |
| C03C 10/02 | 1-Punkt Untergruppe | . Non-silica and non-silicate crystalline phase, e.g. spinel, barium titanate [4] |
| C03C 10/04 | 1-Punkt Untergruppe | . Silicate or polysilicate crystalline phase, e.g. mullite, diopside, sphene, plagioclase [4] |
| C03C 10/06 | 2-Punkt Untergruppe | .. Divalent metal oxide aluminosilicate crystalline phase, e.g. anorthite, slagcerams [4] |
| C03C 10/08 | 3-Punkt Untergruppe | ... Magnesium aluminosilicate, e.g. cordierite [4] |
| C03C 10/10 | 2-Punkt Untergruppe | .. Alkali metal aluminosilicate crystalline phase [4] |
| C03C 10/12 | 3-Punkt Untergruppe | ... Lithium aluminosilicate, e.g. spodumene, eucryptite [4] |
| C03C 10/14 | 1-Punkt Untergruppe | . Silica crystalline phase, e.g. stuffed quartz, cristobalite [4] |
| C03C 10/16 | 1-Punkt Untergruppe | . Halogen-containing crystalline phase [4] |
| C03C 11/00 | Hauptgruppe | Multi-cellular glass |
| C03C 12/00 | Hauptgruppe | Powdered glass (C03C 8/02 takes precedence); Bead compositions [4] |
| C03C 12/02 | 1-Punkt Untergruppe | . Reflective beads [4] |
| C03C 13/00 | Hauptgruppe | Fibre or filament compositions (manufacture of fibres or filaments C03B 37/00) |
| C03C 13/02 | 1-Punkt Untergruppe | . containing compounds of titanium or zirconium [4] |
| C03C 13/04 | 1-Punkt Untergruppe | . Fibre optics, e.g. core and clad fibre compositions (light guides G02B 6/00) [4] |

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| C03C 13/06 | 1-Punkt Untergruppe | . Mineral fibres, e.g. slag wool, mineral wool, rock wool [4] |
| C03C 14/00 | Hauptgruppe | Glass compositions containing a non-glass component, e.g. compositions containing fibres, filaments, whiskers, platelets, or the like, dispersed in a glass matrix (glass batch compositions C03C 6/00; devitrified glass-ceramics C03C 10/00) [4] <u>Surface treatment of glass; Surface treatment of fibres or filaments from glass, minerals or slags</u> |
| C03C 15/00 | Hauptgruppe | Surface treatment of glass, not in the form of fibres or filaments, by etching (etching or surface-brightening compositions, in general C09K 13/00) [2] |
| C03C 15/02 | 1-Punkt Untergruppe | . for making a smooth surface |
| C03C 17/00 | Hauptgruppe | Surface treatment of glass, e.g. of devitrified glass, not in the form of fibres or filaments, by coating (optical coatings of optical elements G02B 1/10) |
| C03C 17/02 | 1-Punkt Untergruppe | . with glass (C03C 17/34 , C03C 17/44 take precedence) [3] |
| C03C 17/04 | 2-Punkt Untergruppe | .. by fritting glass powder |
| C03C 17/06 | 1-Punkt Untergruppe | . with metals (C03C 17/34 , C03C 17/44 take precedence) [3] |
| C03C 17/09 | 2-Punkt Untergruppe | .. by deposition from the vapour phase [3] |
| C03C 17/10 | 2-Punkt Untergruppe | .. by deposition from the liquid phase |
| C03C 17/22 | 1-Punkt Untergruppe | . with other inorganic material (C03C 17/34 , C03C 17/44 take precedence) [3] |
| C03C 17/23 | 2-Punkt Untergruppe | .. Oxides (C03C 17/02 takes precedence) [3] |
| C03C 17/245 | 3-Punkt Untergruppe | ... by deposition from the vapour phase [3] |
| C03C 17/25 | 3-Punkt Untergruppe | ... by deposition from the liquid phase [3] |
| C03C 17/27 | 3-Punkt Untergruppe | ... by oxidation of a coating previously applied [3] |
| C03C 17/28 | 1-Punkt Untergruppe | . with organic material (C03C 17/34 , C03C 17/44 take precedence) [3] |
| C03C 17/30 | 2-Punkt Untergruppe | .. with silicon-containing compounds |
| C03C 17/32 | 2-Punkt Untergruppe | .. with synthetic or natural resins (C03C 17/30 takes precedence) |
| C03C 17/34 | 1-Punkt Untergruppe | . with at least two coatings having different compositions (C03C 17/44 takes precedence) [3] |
| C03C 17/36 | 2-Punkt Untergruppe | .. at least one coating being a metal [3] |
| C03C 17/38 | 3-Punkt Untergruppe | ... at least one coating being a coating of an organic material [3] |
| C03C 17/40 | 3-Punkt Untergruppe | ... all coatings being metal coatings [3] |
| C03C 17/42 | 2-Punkt Untergruppe | .. at least one coating of an organic material and at least one non-metal coating [3] |
| C03C 17/44 | 1-Punkt Untergruppe | . Lustring [3] |
| C03C 19/00 | Hauptgruppe | Surface treatment of glass, not in the form of fibres or filaments, by mechanical means (sand-blasting, grinding, or polishing glass B24) |
| C03C 21/00 | Hauptgruppe | Treatment of glass, not in the form of fibres or filaments, by diffusing ions or metals into the surface |
| C03C 23/00 | Hauptgruppe | Other surface treatment of glass not in the form of fibres or filaments |
| C03C 25/00 | Hauptgruppe | Surface treatment of fibres or filaments from glass, minerals, or slags |
| C03C 25/02 | Gelöscht | (transferred to C03C 25/10) |
| C03C 25/04 | Gelöscht | (transferred to C03C 25/10) |
| C03C 25/06 | Gelöscht | (transferred to C03C 25/68) |
| <i>C03C 25/10</i> | <i>1-Punkt Untergruppe</i> | <i>. by coating [7]</i> |

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| C03C 25/12 | 2-Punkt Untergruppe . . | <i>General methods for coating ; Devices therefor [7]</i> |
| C03C 25/14 | 3-Punkt Untergruppe . . . | <i>Spraying [7]</i> |
| C03C 25/16 | 3-Punkt Untergruppe . . . | <i>Dipping [7]</i> |
| C03C 25/18 | 3-Punkt Untergruppe . . . | <i>using extrusion devices [7]</i> |
| C03C 25/20 | 3-Punkt Untergruppe . . . | <i>Contacting the fibres with applicators, e.g. rolls [7]</i> |
| C03C 25/22 | 3-Punkt Untergruppe . . . | <i>Deposition from the vapour phase [7]</i> |
| C03C 25/24 | 2-Punkt Untergruppe . . | <i>Coatings containing organic materials [7]</i> |
| C03C 25/26 | 3-Punkt Untergruppe . . . | <i>Macromolecular compounds or prepolymers [7]</i> |
| C03C 25/28 | 4-Punkt Untergruppe | <i>obtained by reactions involving only carbon-to-carbon unsaturated bonds, e.g. acrylic resins [7]</i> |
| C03C 25/30 | 5-Punkt Untergruppe | <i>Polyolefins [7]</i> |
| C03C 25/32 | 4-Punkt Untergruppe | <i>obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds [7]</i> |
| C03C 25/34 | 5-Punkt Untergruppe | <i>Condensation polymers of aldehydes, e.g. with phenols, ureas, melamines, amides or amines [7]</i> |
| C03C 25/36 | 5-Punkt Untergruppe | <i>Epoxy resins [7]</i> |
| C03C 25/38 | 3-Punkt Untergruppe . . . | <i>Organo-metallic compounds [7]</i> |
| C03C 25/40 | 3-Punkt Untergruppe . . . | <i>Organo-silicon compounds [7]</i> |
| C03C 25/42 | 2-Punkt Untergruppe . . | <i>Coatings containing inorganic materials [7]</i> |
| C03C 25/44 | 3-Punkt Untergruppe . . . | <i>Carbon, e.g. graphite [7]</i> |
| C03C 25/46 | 3-Punkt Untergruppe . . . | <i>Metals [7]</i> |
| C03C 25/48 | 2-Punkt Untergruppe . . | <i>with two or more coatings having different compositions [7]</i> |
| C03C 25/50 | 3-Punkt Untergruppe . . . | <i>Coatings containing organic materials only [7]</i> |
| C03C 25/52 | 3-Punkt Untergruppe . . . | <i>Coatings containing inorganic materials only [7]</i> |
| C03C 25/54 | 3-Punkt Untergruppe . . . | <i>Combinations of one or more coatings containing organic materials only with one or more coatings containing inorganic materials only [7]</i> |
| C03C 25/60 | 1-Punkt Untergruppe . . | <i>by diffusing ions or metals into the surface [7]</i> |
| C03C 25/62 | 1-Punkt Untergruppe . . | <i>by application of electric or wave energy or particle radiation, or by ion implantation (for drying or dehydration C03C 25/64) [7]</i> |
| C03C 25/64 | 1-Punkt Untergruppe . . | <i>Drying ; Dehydration ; Dehydroxylation [7]</i> |
| C03C 25/66 | 1-Punkt Untergruppe . . | <i>Chemical treatment, e.g. leaching, acid or alkali treatment (dehydroxylation C03C 25/64) [7]</i> |
| C03C 25/68 | 2-Punkt Untergruppe . . . | <i>by etching [7]</i> |
| C03C 25/70 | 1-Punkt Untergruppe . . . | <i>Cleaning, e.g. for reuse (C03C 25/62 to C03C 25/66 take precedence) [7]</i> |
| <u>Joining glass to glass or to other materials (fusion seal compositions C03C 8/24)</u> | | |
| C03C 27/00 | Hauptgruppe | Joining pieces of glass to pieces of other inorganic material; Joining glass to glass other than by fusing (C03C 17/00 takes precedence; wired glass C03B; joining glass to ceramics C04) |
| C03C 27/02 | 1-Punkt Untergruppe . . | <i>by fusing glass directly to metal</i> |

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| C03C 27/04 | 1-Punkt Untergruppe | . Joining glass to metal by means of an interlayer |
| C03C 27/06 | 1-Punkt Untergruppe | . Joining glass to glass by processes other than fusing (fusing C03B 23/20; units for use as elements for closing wall or like openings and comprising two or more parallel glass panes in spaced relationship, the panes being permanently secured together E06B 3/66) |
| C03C 27/08 | 2-Punkt Untergruppe | .. with the aid of intervening metal |
| C03C 27/10 | 2-Punkt Untergruppe | .. with the aid of adhesive specially adapted for that purpose |
| C03C 27/12 | 3-Punkt Untergruppe | ... Laminated glass (mechanical features in manufacture of glass laminates part of which is of plastic material B32B) |
| C03C 29/00 | Hauptgruppe | Joining metals with the aid of glass |