

| Symbol           | Typ                 | Titel                                                                                                                                                                                                              |
|------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b>         | <b>Sektion</b>      | <b>CHEMISTRY; METALLURGY</b>                                                                                                                                                                                       |
| <b>C03</b>       | <b>Klasse</b>       | <b>GLASS; MINERAL OR SLAG WOOL</b>                                                                                                                                                                                 |
| <b>C03C</b>      | <b>Unterklasse</b>  | <b>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</b> |
|                  |                     | <b><u>Chemical composition of glasses, glazes, or vitreous enamels</u></b>                                                                                                                                         |
| <b>C03C 1/00</b> | <b>Hauptgruppe</b>  | <b>Ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels</b>                                                                                                                      |
| 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                                                                                                                                                               |
| <b>C03C 3/00</b> | <b>Hauptgruppe</b>  | <b>Glass compositions (glass batch compositions C03C 6/00) [4]</b>                                                                                                                                                 |
| 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] |
| <b>C03C 4/00</b> | <b>Hauptgruppe</b>  | <b>Compositions for glass with special properties [4]</b>                                                                     |
| 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]                                                                                            |
| <b>C03C 6/00</b> | <b>Hauptgruppe</b>  | <b>Glass batch compositions (single ingredients of batch compositions C03C 1/00) [4]</b>                                      |
| 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]                                                                                                                                                              |
| <b>C03C 8/00</b>  | <b>Hauptgruppe</b>  | <b>Enamels; Glazes (cold glazes for ceramics C04B 41/86); Fusion seal compositions being frit compositions having non-frit additions [4]</b>                                       |
| 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]          |
| <b>C03C 10/00</b> | <b>Hauptgruppe</b>  | <b>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]</b> |
| 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]                                                                                                                                         |
| <b>C03C 11/00</b> | <b>Hauptgruppe</b>  | <b>Multi-cellular glass</b>                                                                                                                                                        |
| <b>C03C 12/00</b> | <b>Hauptgruppe</b>  | <b>Powdered glass (C03C 8/02 takes precedence); Bead compositions [4]</b>                                                                                                          |
| C03C 12/02        | 1-Punkt Untergruppe | . Reflective beads [4]                                                                                                                                                             |
| <b>C03C 13/00</b> | <b>Hauptgruppe</b>  | <b>Fibre or filament compositions (manufacture of fibres or filaments C03B 37/00)</b>                                                                                              |
| 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]                                                                                                                                                                                             |
| <b>C03C 14/00</b> | <b>Hauptgruppe</b>         | <b>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]</b> |
|                   |                            | <b><u>Surface treatment of glass; Surface treatment of fibres or filaments from glass, minerals or slags</u></b>                                                                                                                                          |
| <b>C03C 15/00</b> | <b>Hauptgruppe</b>         | <b>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]</b>                                                                                            |
| C03C 15/02        | 1-Punkt Untergruppe        | . for making a smooth surface                                                                                                                                                                                                                             |
| <b>C03C 17/00</b> | <b>Hauptgruppe</b>         | <b>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)</b>                                                                                         |
| 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]                                                                                                                                                                                                                                            |
| <b>C03C 19/00</b> | <b>Hauptgruppe</b>         | <b>Surface treatment of glass, not in the form of fibres or filaments, by mechanical means (sand-blasting, grinding, or polishing glass B24)</b>                                                                                                          |
| <b>C03C 21/00</b> | <b>Hauptgruppe</b>         | <b>Treatment of glass, not in the form of fibres or filaments, by diffusing ions or metals into the surface</b>                                                                                                                                           |
| <b>C03C 23/00</b> | <b>Hauptgruppe</b>         | <b>Other surface treatment of glass not in the form of fibres or filaments</b>                                                                                                                                                                            |
| <b>C03C 25/00</b> | <b>Hauptgruppe</b>         | <b>Surface treatment of fibres or filaments from glass, minerals, or slags</b>                                                                                                                                                                            |
| 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 | . . General methods for coating ; Devices therefor [7]                                                                                                                                           |
| C03C 25/14        | 3-Punkt Untergruppe | . . . Spraying [7]                                                                                                                                                                               |
| C03C 25/16        | 3-Punkt Untergruppe | . . . Dipping [7]                                                                                                                                                                                |
| C03C 25/18        | 3-Punkt Untergruppe | . . . using extrusion devices [7]                                                                                                                                                                |
| C03C 25/20        | 3-Punkt Untergruppe | . . . Contacting the fibres with applicators, e.g. rolls [7]                                                                                                                                     |
| C03C 25/22        | 3-Punkt Untergruppe | . . . Deposition from the vapour phase [7]                                                                                                                                                       |
| C03C 25/24        | 2-Punkt Untergruppe | . . Coatings containing organic materials [7]                                                                                                                                                    |
| C03C 25/26        | 3-Punkt Untergruppe | . . . Macromolecular compounds or prepolymers [7]                                                                                                                                                |
| C03C 25/28        | 4-Punkt Untergruppe | . . . . obtained by reactions involving only carbon-to-carbon unsaturated bonds, e.g. acrylic resins [7]                                                                                         |
| C03C 25/30        | 5-Punkt Untergruppe | . . . . . Polyolefins [7]                                                                                                                                                                        |
| C03C 25/32        | 4-Punkt Untergruppe | . . . . obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds [7]                                                                                               |
| C03C 25/34        | 5-Punkt Untergruppe | . . . . . Condensation polymers of aldehydes, e.g. with phenols, ureas, melamines, amides or amines [7]                                                                                          |
| C03C 25/36        | 5-Punkt Untergruppe | . . . . . Epoxy resins [7]                                                                                                                                                                       |
| C03C 25/38        | 3-Punkt Untergruppe | . . . Organo-metallic compounds [7]                                                                                                                                                              |
| C03C 25/40        | 3-Punkt Untergruppe | . . . Organo-silicon compounds [7]                                                                                                                                                               |
| C03C 25/42        | 2-Punkt Untergruppe | . . Coatings containing inorganic materials [7]                                                                                                                                                  |
| C03C 25/44        | 3-Punkt Untergruppe | . . . Carbon, e.g. graphite [7]                                                                                                                                                                  |
| C03C 25/46        | 3-Punkt Untergruppe | . . . Metals [7]                                                                                                                                                                                 |
| C03C 25/48        | 2-Punkt Untergruppe | . . with two or more coatings having different compositions [7]                                                                                                                                  |
| C03C 25/50        | 3-Punkt Untergruppe | . . . Coatings containing organic materials only [7]                                                                                                                                             |
| C03C 25/52        | 3-Punkt Untergruppe | . . . Coatings containing inorganic materials only [7]                                                                                                                                           |
| C03C 25/54        | 3-Punkt Untergruppe | . . . Combinations of one or more coatings containing organic materials only with one or more coatings containing inorganic materials only [7]                                                   |
| C03C 25/60        | 1-Punkt Untergruppe | . by diffusing ions or metals into the surface [7]                                                                                                                                               |
| C03C 25/62        | 1-Punkt Untergruppe | . by application of electric or wave energy or particle radiation, or by ion implantation ( for drying or dehydration C03C 25/64 ) [7]                                                           |
| C03C 25/64        | 1-Punkt Untergruppe | . Drying ; Dehydration ; Dehydroxylation [7]                                                                                                                                                     |
| C03C 25/66        | 1-Punkt Untergruppe | . Chemical treatment, e.g. leaching, acid or alkali treatment ( dehydroxylation C03C 25/64 ) [7]                                                                                                 |
| C03C 25/68        | 2-Punkt Untergruppe | . . by etching [7]                                                                                                                                                                               |
| C03C 25/70        | 1-Punkt Untergruppe | . Cleaning, e.g. for reuse ( C03C 25/62 to C03C 25/66 take precedence ) [7]                                                                                                                      |
|                   |                     | <b><u>Joining glass to glass or to other materials (fusion seal compositions C03C 8/24)</u></b>                                                                                                  |
| <b>C03C 27/00</b> | <b>Hauptgruppe</b>  | <b>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)</b> |
| C03C 27/02        | 1-Punkt Untergruppe | . by fusing glass directly to metal                                                                                                                                                              |

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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)                                                                                                                                                 |
| <b>C03C 29/00</b> | <b>Hauptgruppe</b>  | <b>Joining metals with the aid of glass</b>                                                                                                                                                                                                                             |