SECTION C — CHEMISTRY; METALLURGY

C03 GLASS; MINERAL OR SLAG WOOL

C03B MANUFACTURE OR SHAPING OF GLASS, OR OF MINERAL OR SLAG WOOL; SUPPLEMENTARY PROCESSES IN THE MANUFACTURE OR SHAPING OF GLASS, OR OF MINERAL OR SLAG WOOL (surface treatment C03C)

Subclass index

MANUFACTURE OF GLASS	
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SHAPING	
Blowing Pressing Rolling Other methods	9/00
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Production of quartz or fused silica articles	20/00
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Re-formingof fibres or filaments	37/10

Mel	ting	the	raw	material

1/00	Preparing the batches [1, 2006.01]
1/02	• Compacting the glass batches, e.g.

pelletising [5, 2006.01]

3/00 Charging the melting furnaces [1, 2006.01]

3/02 • combined with preheating, premelting or pretreating the glass-making ingredients, pellets or cullet [5, 2006.01]

5/00 Melting in furnaces; Furnaces so far as specially adapted for glass manufacture [1, 2006.01]

5/02 • in electric furnaces [1, 2006.01]

5/027 • by passing an electric current between electrodes immersed in the glass bath, i.e. by direct resistance heating [3, 2006.01]

5/03 • • • Tank furnaces [5, 2006.01]

 by using resistance heaters above or in the glass bath, i.e. by indirect resistance heating [3, 2006.01]

Note(s)

Group C03B 5/02 takes precedence over groups C03B 5/04-C03B 5/14.

5/04 • in tank furnaces **[1, 2006.01]**

5/05 • Discontinuously-working tank furnaces, e.g. day tanks **[5, 2006.01]**

5/06 • in pot furnaces [1, 2006.01]

- 5/08 • Glass-melting pots [1, 2006.01]
- in combined tank furnaces and pots [1, 2006.01]
- 5/12 in shaft furnaces **[1, 2006.01]**
- 5/14 in revolving cylindrical furnaces [1, 2006.01]
- 5/16 Special features of the melting process; Auxiliary means specially adapted for glass-melting furnaces [1, 2006.01]
- 5/167 Means for preventing damage to equipment, e.g. by molten glass, hot gases, batches (C03B 5/20, C03B 5/42 take precedence) [5, 2006.01]
- Apparatus for changing the composition of the molten glass in glass furnaces, e.g. for colouring the molten glass (chemical aspects C03C) [5, 2006.01]
- 5/18 • Stirring devices; Homogenisation [1, 2006.01]
- 5/182 • by moving the molten glass along fixed elements, e.g. deflectors, weirs, baffle plates [5, 2006.01]
- 5/183 • using thermal means, e.g. for creating convection currents **[5, 2006.01]**
- 5/185 • • Electric means **[5, 2006.01]**
- 5/187 • with moving elements **[3, 2006.01]**
- 5/193 • using gas, e.g. bubblers [3, 2006.01]
- 5/20 Bridges, shoes, throats, or other devices for withholding dirt, foam, or batch [1, 2006.01]
- 5/225 Refining (C03B 5/18 takes precedence) [3, 2006.01]

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stream [3, 2006.01] 7/14 * Transferring molten glass or gobs to glass blowing or pressing machines (C03B 7/18-C03B 7/22 take precedence) [3, 2006.01] 7/16 * * using deflector chutes [3, 2006.01] 7/18 * Suction feeders [3, 2006.01] 7/20 * Scoop feeders [3, 2006.01] 7/21 * Gathering-devices in the form of rods or pipes [3, 2006.01] * Gathering-devices in the form of rods or pipes [3, 2006.01] * Production of glass by other processes than melting processes (C03B 37/014 takes precedence; preparation of finely divided silica, in general C01B 33/18) [4, 2006.01] 8/02 * by liquid phase reaction processes [4, 2006.01] * Grand or pressing machines (C03B 7/18-C03B 7/22 take precedence; preparation of finely divided silica, in general C01B 33/18) [4, 2006.01] * Or pressing machines (L03B 7/18-C03B 7/22 take precedence; preparation of finely divided silica, in general C01B 33/18) [4, 2006.01] * Suction feeders [3, 2006.01] * Suction feeders	7/11	• • Construction of the blades [5, 2006.01]		
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precedence) [3, 2006.01] 7/16 • using deflector chutes [3, 2006.01] 7/18 • Suction feeders [3, 2006.01] 7/20 • Scoop feeders [3, 2006.01] 7/21 • Gathering-devices in the form of rods or pipes [3, 2006.01] 8/00 Production of glass by other processes than melting processes (C03B 37/014 takes precedence; preparation of finely divided silica, in general C01B 33/18) [4, 2006.01] 8/02 • by liquid phase reaction processes [4, 2006.01] 9/34 • Construction of the blank or blow mould [3, 2006.01] 9/34 • Construction of the blank or blow mould [3, 2006.01] 9/35 • Mould holders [3, 2006.01] 9/38 • Blow heads; Supplying, ejecting, or controlling the air [1, 2006.01] 9/38 • Means for cooling, heating, or insulating glass-blowing machines [1, 2006.01] 9/40 • Gearing or controlling mechanisms specially adapted for glass-blowing machines [1, 2006.01] 9/41 • Electric or electronic systems [5, 2006.01] 9/42 • Means for fusing, burning-off, or edge-melting combined with glass-blowing machines (uniting)	7/14	Transferring molten glass or gobs to glass blowing or	9/335	
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the air [1, 2006.01] 9/38 • Means for cooling, heating, or insulating glass-blowing machines [1, 2006.01] Production of glass by other processes than melting processes (C03B 37/014 takes precedence; preparation of finely divided silica, in general C01B 33/18) [4, 2006.01] 8/02 • by liquid phase reaction processes [4, 2006.01] the air [1, 2006.01] 9/48 • Gearing or controlling mechanisms specially adapted for glass-blowing machines [1, 2006.01] 9/41 • Electric or electronic systems [5, 2006.01] 9/42 • Means for fusing, burning-off, or edge-melting combined with glass-blowing machines (uniting)	7/22			
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of finely divided silica, in general 9/41 • • Electric or electronic systems [5, 2006.01] C01B 33/18) [4, 2006.01] 9/42 • • Means for fusing, burning-off, or edge-melting combined with glass-blowing machines (uniting	8/00		9/40	 Gearing or controlling mechanisms specially
C01B 33/18) [4, 2006.01] 9/42 • by liquid phase reaction processes [4, 2006.01] 9/42 • Means for fusing, burning-off, or edge-melting combined with glass-blowing machines (uniting				
8/02 • by liquid phase reaction processes [4, 2006.01] combined with glass-blowing machines (uniting				-
	8/02	· · · · · · · · · · · · · · · · · · ·	9/42	

9/44	 Means for discharging combined with glass- blowing machines, e.g. take-outs [1, 2006.01] 	17/06	• Forming glass sheets [3, 2006.01]
9/447	• • • Means for the removal of glass articles from the blow-mould, e.g. take-outs [5, 2006.01]	18/00	Shaping glass in contact with the surface of a liquid [1, 2006.01]
9/453	• • Means for pushing newly formed glass articles	18/02	 Forming sheets [1, 2006.01]
37 133	onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms [5, 2006.01]	18/04	 Changing or regulating the dimensions of the molten glass ribbon [3, 2006.01]
9/46	 Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) [1, 2006.01] 	18/06	• • using mechanical means, e.g. restrictor bars, edge rollers [3, 2006.01]
9/48	 Use of materials for the moulds [3, 2006.01] 	18/08	• • • using gas [3, 2006.01]
		18/10	• • • using electric means [3, 2006.01]
11/00	Pressing glass [1, 2006.01]	18/12	Making multilayer, coloured or armoured glass
11/02	 in machines with rotary tables [1, 2006.01] 		(chemical aspects C03C) [3, 2006.01]
11/04	• in machines with moulds fed by suction [1, 2006.01]	18/14	 Changing the surface of the glass ribbon, e.g.
11/05	• in machines with reciprocating moulds [3, 2006.01]		roughening (by chemical methods
11/06	• Construction of plunger or mould [1, 2006.01]		C03C) [3, 2006.01]
11/07	• • Suction moulds [3, 2006.01]	18/16	 Construction of the float tank; Use of material for
11/08	• • for making solid articles, e.g. lenses [1, 2006.01]		the float tank; Coating or protection of the tank
11/10	 for making hollow articles [1, 2006.01] 		wall [3, 2006.01]
11/12	 Cooling, heating, or insulating the plunger, the 	18/18	Controlling or regulating the temperature of the
	mould, or the glass-pressing machine (C03B 9/38 takes precedence) [1, 3, 2006.01]		float bath; Composition or purification of the float bath [3, 2006.01]
11/14	• with metal inserts [1, 2006.01]	18/20	 Composition of the atmosphere above the float
11/16	Gearing or controlling mechanisms specially adapted		bath; Treating or purifying the atmosphere above
	for glass presses [1, 2006.01]	10/00	the float bath [3, 2006.01]
		18/22	• • • Controlling or regulating the temperature of the
13/00	Rolling glass [1, 2006.01]		atmosphere above the float tank [3, 2006.01]
13/01	 Rolling profiled glass articles [5, 2006.01] 	19/00	Other methods of shaping glass (manufacture or
13/02	 Rolling non-patterned sheets discontinuously [1, 2006.01] 	-2, 20	treatment of flakes, fibres, or filaments from softened glass, minerals, or slags C03B 37/00) [1, 2006.01]
13/04	 Rolling non-patterned sheets continuously [1, 2006.01] 	19/01	 by progressive fusion of powdered glass onto a shaping substrate, i.e. accretion [5, 2006.01]
13/06	• Rolling corrugated sheets [1, 2006.01]	19/02	• by casting [1, 2006.01]
13/08	• Rolling patterned sheets [1, 2006.01]	19/02	 by casting [1, 2006.01] by centrifuging [1, 2006.01]
13/10	• Rolling multi-layer sheets [1, 2006.01]		
13/12	• Rolling glass with enclosures, e.g. wire or asbestos [1, 2006.01]	19/06	• by sintering (production of quartz or fused silica articles C03B 20/00) [1, 2, 2006.01]
13/14	• Rolling other articles [1, 2006.01]	19/08	• by foaming [1, 2006.01]
13/16	• Construction of the glass rollers [1, 2006.01]	19/09	• by fusing powdered glass in a shaping
13/18	Auxiliary means for rolling glass, e.g. sheet supports,	10/10	mould [3, 2006.01]
15/10	gripping devices, hand-ladles, means for moving	19/10	• Forming beads [1, 2006.01]
	glass pots [1, 2006.01]	19/12	• by liquid-phase reaction processes [5, 2006.01]
	9 han f-,1	19/14	• by gas-phase reaction processes [5, 2006.01]
15/00	Drawing glass upwardly from the melt [1, 2006.01]	20/00	Processes specially adapted for the production of
15/02	• Drawing glass sheets [1, 2006.01]	20/00	quartz or fused silica articles [3, 2006.01]
15/04	• • from the free surface of the melt [1, 2006.01]		quartz or rused sincu dructes (s) 2000/01
15/06	• • from a debiteuse [1, 2006.01]	21/00	Severing glass sheets, tubes, or rods while still
15/08	 by means of bars below the surface of the melt [1, 2006.01] 	21/02	plastic [1, 2006.01]by cutting (C03B 9/46 takes precedence) [1, 2006.01]
15/10	 multi-layer glass sheets or glass sheets coated with 	21/02	 by cutting (COSD 3/40 takes precedence) [1, 2000.01] by punching out [1, 2006.01]
	coloured layers [1, 2006.01]	21/06	• by flashing-off, burning-off, or fusing (C03B 9/42
15/12	• • Construction of the annealing tower [1, 2006.01]		takes precedence) [1, 3, 2006.01]
15/14	 Drawing tubes, cylinders, or rods from the melt [1, 2006.01] 		
15/16	 Drawing tubes, cylinders, or rods, coated with coloured layers [1, 2006.01] 	23/00	Re-forming shaped glass (re-forming fibres or
15/18	Means for laying-down and conveying combined		filaments C03B 37/14) [1, 2006.01]
	with the drawing of glass sheets, tubes, or	23/02	 Re-forming glass sheets [1, 2006.01]
	rods [1, 2006.01]	23/023	• • by bending [3, 2006.01]
		23/025	• • • by gravity [3, 2006.01]
17/00	Forming glass by flowing out, pushing-out, or drawing downwardly or laterally from forming slits	23/027	• • • with moulds having at least two upward pivotable mould sections [3, 2006.01]
	or by overflowing over lips [1, 2006.01]	23/03	• • by press-bending between shaping
17/02	 Forming glass coated with coloured layers [1, 2006.01] 		moulds [3, 2006.01]
17/04	Forming tubes or rods by drawing from stationary or		

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• Forming tubes or rods by drawing from stationary or rotating tools or from forming nozzles [1, 2006.01]

23/031	• • • the glass sheets being in a vertical position (C03B 23/033 takes	25/10	 with vertical displacement of the glass products [3, 2006.01]
	precedence) [5, 2006.01]	25/12	• • • of glass sheets [3, 2006.01]
23/033	• • • in a continuous way, e.g. roll forming [3, 2006.01]	27/00	Tempering glass products (after-treatment of fibres
23/035	 • using a gas cushion or by changing gas pressure, e.g. by applying vacuum [3, 2006.01] 	27/004	C03B 37/10) [1, 2006.01] • by bringing the hot glass product in contact with a
23/037	• • by drawing [3, 2006.01]		solid cooling surface, e.g. sand grains [5, 2006.01]
23/04	• Re-forming tubes or rods [1, 2006.01]	27/008	by using heat of sublimation of solid
23/043	 Heating devices specially adapted for re-forming tubes or rods in general, e.g. burners [5, 2006.01] 	27/012	particles [5, 2006.01] • by heat treatment, e.g. for crystallisation; Heat
23/045	 Tools or apparatus specially adapted for re- forming tubes or rods in general, e.g. glass lathes, chucks (C03B 23/043 takes 		treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) [5, 2006.01]
	precedence) [5, 2006.01]	27/016	 by absorbing heat radiated from the glass
23/047	• • by drawing (C03B 37/025 takes	27/02	product [5, 2006.01]
	precedence) [5, 2006.01]	27/02	• using liquid [3, 5, 2006.01]
23/049	 by pressing (C03B 21/04, C03B 23/26 take precedence) [5, 2006.01] 	27/03	 the liquid being a molten metal or a molten salt [5, 2006.01]
23/051	• • by gravity, e.g. sagging [5, 2006.01]	27/04	• using gas [3, 2006.01]
23/053	• • by centrifuging (C03B 37/04 takes precedence) [5, 2006.01]	27/044	 for flat or bent glass sheets being in a horizontal position [5, 2006.01]
23/055	• by rolling [5, 2006.01]	27/048	• • • on a gas cushion [5, 2006.01]
	 by fusing, e.g. for flame sealing (C03B 9/42, 		 for flat or bent glass sheets being in a vertical
	C03B 21/06, C03B 33/08 take		position [5, 2006.01]
	precedence) [5, 2006.01]	27/056	• • • supported on the lower edge [5, 2006.01]
23/06	• • by bending [1, 2006.01]	27/06	• • for glass products other than flat or bent glass
23/07	 by blowing, e.g. for making electric bulbs [3, 2006.01] 		plates, e.g. hollow glassware, lenses [3, 2006.01]
23/08	• to exact dimensions, e.g. calibrating [1, 2006.01]	29/00	Reheating glass products for softening or fusing their
23/09	Reshaping the ends, e.g. as grooves, threads or		surfaces; Fire-polishing; Fusing of margins (aftertreatment of fibres C03B 37/10) [1, 2006.01]
	mouths [3, 2006.01]	29/02	• in a discontinuous way [1, 2006.01]
23/11	Reshaping by drawing without blowing, in	29/04	• in a continuous way [1, 2006.01]
	combination with separating, e.g. for making	29/06	with horizontal displacement of the
23/13	ampoules [3, 2006.01]Reshaping combined with uniting or heat sealing,		products [5, 2006.01]
25/15	e.g. making vacuum bottles [3, 2006.01]	29/08	• • • Glass sheets [5, 2006.01]
23/18	• Re-forming and sealing ampoules [1, 2006.01]	29/10	• • • being in a vertical position [5, 2006.01]
23/20	Uniting glass pieces by fusing without substantial	29/12	• • • being in a horizontal position on a fluid
	reshaping [1, 2006.01]		support, e.g. a gas or molten metal [5, 2006.01]
23/203	• Uniting glass sheets (C03B 23/24 takes	29/14	with vertical displacement of the
22/207	precedence) [3, 2006.01]	20711	products [5, 2006.01]
23/20/	Uniting glass rods, glass tubes, or hollow glassware (C03B 23/24 takes 12 2006 011	29/16	• • • Glass sheets [5, 2006.01]
23/213	precedence) [3, 2006.01] • • Joining projections or feet [3, 2006.01]	31/00	Manufacture of rippled or crackled glass [1, 2006.01]
23/213	• • • for the production of cathode ray tubes or	22/00	The second of the state of the second of the
	similarly shaped tubes [3, 2006.01]	32/00	Thermal after-treatment of glass products not provided for in groups C03B 25/00-C03B 31/00, e.g.
23/22	 Uniting glass lenses, e.g. forming bifocal lenses [1, 2006.01] 		crystallisation, eliminating gas inclusions or other impurities (after-treatment of fibres
23/24	 Making hollow glass sheets or bricks [1, 2006.01] 		C03B 37/10) [2, 2006.01]
23/26	• Punching reheated glass [1, 2006.01]	32/02	 Thermal crystallisation, e.g. for crystallising glass bodies into glass-ceramic articles [5, 2006.01]
After-trea	ntment of glass product	33/00	Severing cooled glass (severing glass fibres C03B 37/16) [1, 2006.01]
25/00	Annealing glass products (after-treatment of fibres	33/02	• Cutting or splitting sheet glass; Apparatus or
	C03B 37/10) [1, 2006.01]	33, 02	machines therefor (C03B 33/09 takes precedence;
25/02 25/04	in a discontinuous way [1, 2006.01]in a continuous way [1, 2006.01]	33/023	glass-cutting tools C03B 33/10) [1, 3, 2006.01] • the sheet being in a horizontal
25/04	 • with horizontal displacement of the glass 	55/023	position [5, 2006.01]
	products [3, 2006.01]	33/027	• • Scoring tool holders; Driving mechanisms
25/08	• • • of glass sheets [3, 2006.01]	33/03	therefor [5, 2006.01] • • • Glass cutting tables; Apparatus for transporting
25/087 25/093	• • • being in a vertical position [5, 2006.01]• • • being in a horizontal position on a fluid	55/05	or handling sheet glass during the cutting or
23/U33	support, e.g. a gas or molten metal [5, 2006.01]		breaking operations [5, 2006.01]

33/033	 • Apparatus for opening score lines in glass sheets [5, 2006.01] 	37/023	• • • Fibres composed of different sorts of glass, e.g. fibre optics [4, 2006.01]
33/037	• • • Controlling or regulating [5, 2006.01]	37/025	 from reheated softened tubes, rods, fibres or
33/04	 Cutting or splitting in curves, especially for making spectacle lenses [1, 2006.01] 	37/026	filaments [3, 2006.01] • • • • Drawing fibres reinforced with a metal
33/06	Cutting or splitting glass tubes, rods, or hollow	37,020	wire [5, 2006.01]
	products (C03B 33/09 takes precedence) [1, 3, 2006.01]	37/027	• • • • Fibres composed of different sorts of glass, e.g. fibre optics (C03B 37/028 takes
33/07	Cutting armoured or laminated glass		precedence) [4, 2006.01]
33/08	products [3, 2006.01] • by fusing [1, 2006.01]	37/028	• • • Drawing fibre bundles, e.g. for making fibre bundles of multifibres [4, 2006.01]
33/085	 • Tubes, rods or hollow products [5, 2006.01] 	37/029	
33/003		37/03	• • • Drawing means, e.g. drawing
	• by thermal shock [3, 2006.01]	37703	drums [3, 2006.01]
33/095	• • Tubes, rods or hollow products [5, 2006.01]	37/035	• • • having means for deflecting or stripping-off
33/10	• Glass-cutting tools, e.g. scoring tools [1, 2006.01]	37/033	fibres [3, 2006.01]
33/12	• • Hand tools [3, 2006.01]	37/04	• • by using centrifugal force [1, 3, 2006.01]
33/14	 • specially adapted for cutting tubes, rods or hollow products [5, 2006.01] 	37/05	 • by projecting on a rotating body having no radial orifices [3, 2006.01]
35/00	Transporting of glass products during their	37/06	 by blasting or blowing molten glass, e.g. for
25 /04	manufacture [1, 2, 2006.01]	27/065	making staple fibres [1, 3, 2006.01]
35/04	 Transporting of hot hollow glass products (C03B 35/26 takes precedence) [3, 2006.01] 	37/065	• • starting from tubes, rods, fibres, or filaments [3, 2006.01]
35/06	 Feeding of hot hollow glass products into 	37/07	 Controlling or regulating [3, 2006.01]
	annealing or heating kilns [3, 2006.01]	37/075	 Manufacture of fibres or filaments consisting of
35/08	 using rotary means directly acting on the 		different sorts of glass or characterised by shape, e.g.
	products [3, 2006.01]		hollow fibres, undulated fibres (C03B 37/022,
35/10	 • using reciprocating means directly acting on the products, e.g. pushers, stackers [3, 2006.01] 		C03B 37/027, C03B 37/028 take precedence) [3, 4, 2006.01]
35/12	• • • by picking-up and depositing [3, 2006.01]	37/08	Bushings; Spinnerettes; Nozzles or nozzle
35/14	• Transporting hot glass sheets [3, 2006.01]		plates [1, 2006.01]
35/16	• by roller conveyors [3, 2006.01]	37/081	 Indirect-melting bushings [5, 2006.01]
35/18	Construction of the conveyor	37/083	
33/10	rollers [3, 2006.01]		takes precedence) [5, 2006.01]
35/20	by gripping tongs or supporting	37/085	 Feeding devices therefor [3, 2006.01]
33720	frames [3, 2006.01]	37/09	• • electrically heated [3, 2006.01]
35/22	on a fluid support bed, e.g. on molten	37/092	• • • Direct-resistance heating [5, 2006.01]
	metal [3, 2006.01]	37/095	 Use of materials therefor [3, 2006.01]
35/24	• • • on a gas support bed [3, 2006.01]	37/10	 Non-chemical treatment (surface treatment of fibres
35/26	Transporting of glass tubes or rods [3, 2006.01]		or filaments made from glass, minerals or slags C03C 25/00) [1, 2006.01]
		37/12	 of fibres or filaments during winding up [3, 2006.01]
37/00	Manufacture or treatment of flakes, fibres, or filaments from softened glass, minerals, or	37/14	• Re-forming fibres or filaments (C03B 37/025 takes precedence) [3, 2006.01]
	slags [1, 2006.01]	37/15	 • with heat application, e.g. for making optical
37/005	Manufacture of flakes [5, 2006.01]		fibres (fusion-splicing of light guides
37/01	• Manufacture of glass fibres or filaments [3, 2006.01]		G02B 6/255; treatment of light guides to shape
37/012	 Manufacture of preforms for drawing fibres or 		optical elements G02B 6/287) [5, 2006.01]
	filaments [4, 2006.01]	37/16	Cutting or severing (light guides
37/014	 • made entirely or partially by chemical means [4, 2006.01] 	40 / 00	G02B 6/25) [3, 5, 2006.01]
37/016	• • • by a liquid phase reaction process, e.g. through a gel phase [4, 2006.01]	40/00	Preventing adhesion between glass and glass or between glass and the means used to shape it [3, 2006.01]
37/018	• • • by glass deposition on a glass substrate, e.g.	40/02	 by lubrication; Use of materials as release or
	by chemical vapour deposition (C03B 37/016 takes precedence; surface		lubricating compositions [3, 2006.01]
	treatment of glass by coating with glass	40/027	• • Apparatus for applying lubricants to glass shaping
BE :-	C03C 17/02) [4, 2006.01]	40 /022	moulds or tools [5, 2006.01]
37/02	 by drawing or extruding (C03B 37/04 takes precedence) [1, 3, 2006.01] 	40/033	• • Means for preventing adhesion between glass and glass [5, 2006.01]
37/022	• • from molten glass in which the resultant	40/04	• using gas [3, 2006.01]
	product consists of different sorts of glass or is characterised by shape, e.g. hollow fibres [4, 2006.01]		

C03C CHEMICAL COMPOSITION OF GLASSES, GLAZES OR VITREOUS ENAMELS; SURFACE TREATMENT OF GLASS; SURFACE TREATMENT OF FIBRES OR FILAMENTS MADE FROM GLASS, MINERALS OR SLAGS; JOINING GLASS TO GLASS OR OTHER MATERIALS

Subclass index

CHEMICAL COMPOSITION	
For glasses	
For glazes, for vitreous enamels	
For devitrified glass ceramics	10/00
For fibres or filaments	13/00
For glass containing a non-glass component	14/00
SURFACE TREATMENTS	
By diffusion into the surface	21/00
By diffusion into the surface	17/00
Other treatments	15/00, 19/00, 23/00
Of fibres or filaments	25/00
JOINING	27/00, 29/00
GLASS OF SPECIAL STRUCTURE	10/00-12/00, 14/00

Chemical composition of glasses, glazes, or vitreous enamels

Note(s) [4]

In groups C03C 1/00-C03C 14/00, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

1/00 Ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels [1, 2006.01]

- 1/02 • Pretreated ingredients [1, 2006.01]
- 1/04 Opacifiers, e.g. fluorides or phosphates; Pigments [1, 2006.01]
- 1/06 to produce non-uniformly pigmented, e.g. speckled, marbled, or veined products [1, 2006.01]
- 1/08 • to produce crackled effects [1, 2006.01]
- 1/10 to produce uniformly-coloured transparent products [1, 2006.01]

3/00 Glass compositions (glass batch compositions C03C 6/00) [1, 4, 2006.01]

3/04 • containing silica [1, 4, 2006.01]

Note(s) [4]

If silica is specified as being present in a percent range covered by two of the groups C03C 3/06, C03C 3/062 or C03C 3/076, classification is made in both groups. If the range is covered by the three groups, classification is made in group C03C 3/04 itself.

- with more than 90% silica by weight, e.g. 3/06 quartz [1, 2006.01]
- 3/062 with less than 40% silica by weight [4, 2006.01]
- 3/064 • • containing boron [4, 2006.01]
- containing zinc [4, 2006.01] 3/066
- 3/068 • • containing rare earths [4, 2006.01]
- • containing lead [4, 2006.01] 3/07
- • containing boron [4, 2006.01] 3/072
- 3/074 • • containing zinc **[4, 2006.01]** 3/076 • • with 40% to 90% silica by weight **[4, 2006.01]**
- 3/078 • containing an oxide of a divalent metal, e.g. an oxide of zinc [4, 2006.01]
- 3/083 • containing aluminium oxide or an iron compound [4, 2006.01]

- 3/085 containing an oxide of a divalent metal [4, 2006.01]
- 3/087 containing calcium oxide, e.g. common sheet or container glass [4, 2006.01]
- 3/089 • containing boron [4, 2006.01]
- 3/091 • containing aluminium **[4, 2006.01]**
- 3/093 • • containing zinc or zirconium **[4, 2006.01]**
- 3/095 • • • containing rare earths [4, 2006.01]
- containing phosphorus, niobium or 3/097 tantalum [4, 2006.01]
- • containing lead [4, 2006.01] 3/102
- 3/105 • • • containing aluminium [4, 2006.01]
- 3/108 • • containing boron [4, 2006.01]
- 3/11 • containing halogen or nitrogen [4, 2006.01]
- 3/112 • containing fluorine **[4, 2006.01]**
- 3/115 • • containing boron **[4, 2006.01]**
- 3/118 • • containing aluminium **[4, 2006.01]**
- Silica-free oxide glass compositions [1, 4, 2006.01] 3/14 • • containing boron [1, 4, 2006.01]

3/12

- 3/145 • containing aluminium or beryllium [4, 2006.01]
- 3/15 • • containing rare earths [4, 2006.01]
- • containing zirconium, titanium, tantalum or 3/155 niobium [4, 2006.01]
- 3/16 • • containing phosphorus [1, 4, 2006.01]
- containing aluminium or beryllium [4, 2006.01] 3/17
- 3/19 • • containing boron [4, 2006.01]
- 3/21 containing titanium, zirconium, vanadium, tungsten or molybdenum [4, 2006.01]
- · · containing halogen and at least one oxide, e.g. 3/23 oxide of boron [4, 2006.01]
- 3/247 · · · containing fluorine and phosphorus [4, 2006.01]
- 3/253 • • containing germanium [4, 2006.01]
- 3/32 Non-oxide glass compositions, e.g. binary or ternary halides, sulfides, or nitrides of germanium, selenium or tellurium [4, 2006.01]
- 4/00 Compositions for glass with special properties [4, 2006.01]

Note(s) [4]

When classifying in group C03C 4/00, classification is also made in the appropriate subgroups of group C03C 3/00 according to the glass composition.

- 4/02 for coloured glass [4, 2006.01]
- 4/04 for photosensitive glass **[4, 2006.01]**
- 4/06 • for phototropic or photochromic glass [4, 2006.01]
- for glass selectively absorbing radiation of specified wave lengths [4, 2006.01]
- 4/10 for infrared transmitting glass [4, 2006.01]
- for luminescent glass; for fluorescent glass [4, 2006.01]
- 4/14 for electro-conductive glass **[4, 2006.01]**
- 4/16 for dielectric glass [4, 2006.01]
- 4/18 for ion-sensitive glass [4, 2006.01]
- 4/20 for chemical resistant glass [4, 2006.01]
- **Glass batch compositions** (single ingredients of batch compositions C03C 1/00) **[4, 2006.01]**

Note(s) [4]

This group <u>covers</u> also compositions which are intended to be heated sufficiently for their ingredients to fuse into a glass, e.g. glass furnace charges.

- 6/02 containing silicates, e.g. cullet **[4, 2006.01]**
- containing uncombined silica, e.g. sand [4, 2006.01]
- 6/06 containing halogen compounds [4, 2006.01]
- 6/08 containing pellets or agglomerates [4, 2006.01]
- 6/10 containing slag [4, 2006.01]

8/00 Enamels; Glazes; Fusion seal compositions being frit compositions having non-frit additions [4, 2006.01]

- 8/02 Frit compositions, i.e. in a powdered or comminuted form [4, 2006.01]
- 8/04 • containing zinc [4, 2006.01]
- 8/06 • containing halogen **[4, 2006.01]**
- 8/08 • containing phosphorus **[4, 2006.01]**
- 8/10 • containing lead [4, 2006.01]
- 8/12 • containing titanium or zirconium [4, 2006.01]
- 8/14 Glass frit mixtures having non-frit additions, e.g. opacifiers, colorants, mill additions [4, 2006.01]
- 8/16 with vehicle or suspending agents, e.g. slip [4, 2006.01]
- 8/18 • containing free metals **[4, 2006.01]**
- e containing titanium compounds; containing zirconium compounds [4, 2006.01]
- 8/22 containing two or more distinct frits having different compositions [4, 2006.01]
- 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, 2006.01]

10/00 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, 2006.01]

- Non-silica and non-silicate crystalline phase, e.g. spinel, barium titanate [4, 2006.01]
- 10/04 Silicate or polysilicate crystalline phase, e.g. mullite, diopside, sphene, plagioclase [4, 2006.01]
- 10/06 Divalent metal oxide aluminosilicate crystalline phase, e.g. anorthite, slagcerams [4, 2006.01]
- 10/08 • Magnesium aluminosilicate, e.g. cordierite [4, 2006.01]

- 10/10 • Alkali metal aluminosilicate crystalline phase [4, 2006.01]
- 10/12 • Lithium aluminosilicate, e.g. spodumene, eucryptite [4, 2006.01]
- 10/14 Silica crystalline phase, e.g. stuffed quartz, cristobalite [4, 2006.01]
- Halogen-containing crystalline phase [4, 2006.01]
- 11/00 Multi-cellular glass [1, 2006.01]
- **12/00 Powdered glass** (C03C 8/02 takes precedence); **Bead compositions** [1, 4, 2006.01]
- 12/02 Reflective beads [4, 2006.01]
- **13/00 Fibre or filament compositions** (manufacture of fibres or filaments C03B 37/00) **[1, 2006.01]**
- 13/02 containing compounds of titanium or zirconium [4, 2006.01]
- 13/04 Fibre optics, e.g. core and clad fibre compositions [4, 2006.01]
- 13/06 Mineral fibres, e.g. slag wool, mineral wool, rock wool [4, 2006.01]
- 14/00 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, 2006.01]

Surface treatment of glass; Surface treatment of fibres or filaments made from glass, minerals or slags

Note(s) [4]

Treatment of materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone is classified in subclass C04B.

- 15/00 Surface treatment of glass, not in the form of fibres or filaments, by etching [1, 2, 2006.01]
- 15/02 for making a smooth surface [1, 2006.01]
- 17/00 Surface treatment of glass, e.g. of devitrified glass, not in the form of fibres or filaments, by coating [1, 2006.01]
- 17/02 with glass (C03C 17/34, C03C 17/44 take precedence) [1, 3, 2006.01]
- 17/04 • by fritting glass powder **[1, 2006.01]**
- 17/06 with metals (C03C 17/34, C03C 17/44 take precedence) [1, 3, 2006.01]
- 17/09 • by deposition from the vapour phase **[3, 2006.01]**
- 17/10 • by deposition from the liquid phase **[1, 2006.01]**
- 17/22 with other inorganic material (C03C 17/34, C03C 17/44 take precedence) [1, 3, 2006.01]
- 17/23 • Oxides (C03C 17/02 takes precedence) [3, 2006.01]
- 17/245 • by deposition from the vapour phase **[3, 2006.01]**
- 17/25 • by deposition from the liquid phase **[3, 2006.01]**
- 17/27 • by oxidation of a coating previously applied [3, 2006.01]
- 17/28 with organic material (C03C 17/34, C03C 17/44 take precedence) [1, 3, 2006.01]
- 17/30 • with silicon-containing compounds [1, 2006.01]
- 17/32 with synthetic or natural resins (C03C 17/30 takes precedence) [1, 2006.01]

CUDC		
17/34	 with at least two coatings having different compositions (C03C 17/44 takes 	• Impregnation by solution; Solution doping or molecular stuffing of porous glass [2018.01]
	precedence) [3, 2006.01]	25/10 • Coating [7, 2006.01, 2018.01]
17/36	 at least one coating being a metal [3, 2006.01] 	25/1025 • • to obtain fibres used for reinforcing cement-based
17/38	 at least one coating being a coating of an organic material [3, 2006.01] 	products [2018.01]
17/40		25/104 • • to obtain optical fibres [2018.01]
17/40	• • • all coatings being metal coatings [3, 2006.01]	25/105 • • • Organic claddings [2018.01]
17/42	• • at least one coating of an organic material and at least one non-metal coating [3, 2006.01]	25/106 • • • Single coatings [2018.01]
17/11	3 - 1	25/1065 • • • Multiple coatings [2018.01]
17/44	• Lustring [3, 2006.01]	25/1095 • • to obtain coated fabrics [2018.01]
19/00	Surface treatment of glass, not in the form of fibres	25/12 • • General methods of coating; Devices therefor [7, 2006.01]
	or filaments, by mechanical means (sand-blasting,	25/14 • • • Spraying [7, 2006.01, 2018.01]
	grinding, or polishing glass B24) [1, 2006.01]	25/143 • • • • onto continuous fibres [2018.01]
21/00	Treatment of glass, not in the form of fibres or	25/146 • • • onto fibres in suspension in a gaseous
	filaments, by diffusing ions or metals into the surface [1, 2006.01]	medium (C03C 25/143 takes precedence) [2018.01]
		25/16 • • • Dipping [7, 2006.01]
23/00	Other surface treatment of glass not in the form of	25/18 • • • Extrusion [7, 2006.01]
	fibres or filaments [1, 2006.01]	25/20 • • • Contacting the fibres with applicators, e.g.
25/00	Surface treatment of fibres or filaments made from	rolls [7, 2006.01]
	glass, minerals or slags [1, 2006.01, 2018.01]	25/22 • • • Deposition from the vapour phase [7, 2006.01, 2018.01]
	Note(s) [2018.01]	25/223 • • • • by chemical vapour deposition or pyrolysis [2018.01]
	1. In groups C03C 25/24-C03C 25/48, the last place	25/226 • • • by sputtering [2018.01]
	priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the	* * *
	contrary, classification is made in the last	25/24 • • Coatings containing organic materials [7, 2006.01, 2018.01]
	appropriate place.	25/25 • • • Non-macromolecular compounds [2018.01]
	2. A coating composition, i.e. a mixture of two or	
	more constituents, is classified in the last of	25/255 • • Oils, waxes, fats or derivatives thereof [2018.01]
	groups C03C 25/24-C03C 25/42 that provides for	25/26 • • • Macromolecular compounds or
	at least one of these constituents.	prepolymers [7, 2006.01, 2018.01]
	3. When classifying in groups C03C 25/24-	25/27 • • • Rubber latex [2018.01]
	C03C 25/42, any individual constituent, i.e.	25/28 • • • • obtained by reactions involving only carbon-
	compound or ingredient of a coating composition, which is not identified by the classification	to-carbon unsaturated
	according to Note (2), and which itself is	bonds [7, 2006.01, 2018.01]
	determined to be novel and non-obvious, must	25/285 • • • • Acrylic resins [2018.01]
	also be classified in the last appropriate place in	25/30 • • • • Polyolefins [7, 2006.01, 2018.01]
	groups C03C 25/24-C03C 25/42.	25/305 • • • • • Polyfluoroolefins [2018.01]
	4. When classifying in groups C03C 25/24-	25/32 • • • obtained otherwise than by reactions
	C03C 25/42, any individual constituent of a coating composition which is not identified by the	involving only carbon-to-carbon unsaturated bonds [7, 2006.01, 2018.01]
	classification according to Note (2) or (3), and	25/321 • • • • Starch; Starch derivatives [2018.01]
	which is considered to represent information of	25/323 • • • • Polyesters, e.g. alkyd resins [2018.01]
	interest for search, may also be classified in	
	groups C03C 25/24-C03C 25/42. This can, for	25/325 • • • • Polycarbonates [2018.01]
	example, be the case when it is considered of	25/326 • • • • Polyureas; Polyurethanes [2018.01]
	interest to enable searching of coating	25/328 • • • • Polyamides [2018.01]
	compositions using a combination of	25/34 • • • • Condensation polymers of aldehydes, e.g.
	classification symbols. Such non-obligatory classification should be given as "additional	with phenols, ureas, melamines, amides or amines [7, 2006.01]
	information".	25/36 • • • • Epoxy resins [7, 2006.01]
	5. When classifying in groups C03C 25/1025-	25/38 • • • Organo-metallic compounds [7, 2006.01]
	C03C 25/1095, the composition of the coatings	25/40 • • • Organo-silicon compounds [7, 2006.01]
	must also be classified in one or more of groups	25/42 • • Coatings containing inorganic
	C03C 25/24-C03C 25/54, according to Notes (1) to (4).	materials [7, 2006.01]
	6. When classifying in group C03C 25/48, any	25/44 • • • Carbon, e.g. graphite [7, 2006.01]
	individual coating which itself is determined to be	25/46 • • • Metals [7, 2006.01]
	novel and non-obvious must also be classified in groups C03C 25/24-C03C 25/42, according to	25/465 • • Coatings containing composite materials [2018.01]
	Notes (1) to (4).	25/47 • • • containing particles, fibres or flakes, e.g. in a continuous phase [2018.01]
		25/475 • • • containing colouring agents [2018 01]

25/002 • Thermal treatment **[2018.01]**

25/005 • by mechanical means [2018.01]

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25/475 • • • containing colouring agents **[2018.01]**

25/48

• • with two or more coatings having different compositions [7, 2006.01]

25/50		Coatings containing organic materials nly [7, 2006.01]
25/52		Coatings containing inorganic materials nly [7, 2006.01]
25/54	c n	Combinations of one or more coatings ontaining organic materials only with one or nore coatings containing inorganic materials nly [7, 2006.01]
25/60		using ions or metals into the [7, 2006.01, 2018.01]
25/601		ne liquid phase, e.g. using solutions or molten [2018.01]
25/602		o perform ion-exchange between alkali ions C03C 25/605 takes precedence) [2018.01]
25/603	• • •	under application of an electrical potential difference [2018.01]
25/605		o introduce metals or metallic ions, e.g. silver r copper, into the glass [2018.01]
25/607	• in th	ne gaseous phase [2018.01]
25/608		ne solid phase, e.g. using pastes or rders [2018.01]
25/62	or dehy	lication of electric or wave energy (for drying dration C03C 25/64); by particle radiation or plantation [7, 2006.01, 2018.01]
25/6206	 Electrical 	ctromagnetic waves [2018.01]
25/6208	• • I	aser [2018.01]
25/621	· • N	/licrowaves [2018.01]
25/6213	• • I	nfrared [2018.01]
25/622	• • \	/isible light [2018.01]
25/6226	. • I	Jltraviolet [2018.01]
25/624	· • X	K-rays [2018.01]
25/6246	-	Gamma rays [2018.01]
25/626	 Part 	icle radiation or ion implantation [2018.01]
25/6266	• • E	Electrons, protons or alpha particles [2018.01]

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25/6273 • • • Neutrons [2018.01]
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25/628 • • • Atoms [2018.01]

25/6286 • • • Ion implantation **[2018.01]**

25/6293 • Plasma or corona discharge [2018.01]25/64 • Drying; Dehydration; Dehydroxylation [7, 2006.01]

25/66 • Chemical treatment, e.g. leaching, acid or alkali treatment (dehydroxylation C03C 25/64) [7, 2006.01]

25/68 • • by etching [7, 2006.01]

25/70 • Cleaning, e.g. for reuse (C03C 25/62-C03C 25/66 take precedence) [7, 2006.01]

Joining glass to glass or to other materials

Note(s)

Layered products classified in groups C03C 27/00 or C03C 29/00 are also classified in subclass B32B.

27/00 Joining pieces of glass to pieces of other inorganic material; Joining glass to glass other than by fusing (C03C 17/00takes precedence; fusion seal compositions C03C 8/24; wired glass C03B; joining glass to ceramics C04) [1, 2006.01]

• by fusing glass directly to metal **[1, 2006.01]**

27/04 • Joining glass to metal by means of an interlayer [1, 2006.01]

27/06 • Joining glass to glass by processes other than fusing [1, 2006.01]

27/08 • • with the aid of intervening metal **[1, 2006.01]**

27/10 • with the aid of adhesive specially adapted for that purpose [1, 2006.01]

27/12 • • • Laminated glass (mechanical features in manufacture of glass laminates part of which is of plastic material B32B) [1, 2006.01]

29/00 Joining metals with the aid of glass [1, 2006.01]