

Universal Decimal Classification —

English full edition —
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UDC 666 Glass industry — Ceramics —
Cement and concrete

UDC 025.45:666

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Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The English full edition of the UDC is authorized by the International Federation for Documentation (FID), PO Box 90402, 2509 LK, The Hague, Netherlands.

This section is part of the English full edition. It should be used in conjunction with the Abridged English Edition, BS 1000A, which refers to many other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of BS 1000[666], which supersedes the 1971 edition, includes modifications authorized in *Extensions and Corrections to the UDC* (FID publication no. 248) up to and including Series 11, No. 3, dated July 1983. Subsequent issues of *Extensions and Corrections to the UDC* should be consulted to keep the schedule up to date. British Standards related to this part of BS 1000 are listed on the inside back cover.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 70, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Scope

Under 666 is classed information about the manufacture of glass, ceramics, clay, gypsum, lime, cement and related materials. It also deals with some articles made from these materials.

Related subjects

535	Optics
542.2	Laboratory apparatus and techniques in general
543	Analytical chemistry
548	Crystallography
549	Mineralogy
553	Economic geology. Mineral deposits
620.1	Materials testing. Defects of materials. Protection of materials
622	Mining
624	Civil and structural engineering in general
66.04	Heat treatment operations
661	Chemical products
662.6/.9	Fuel economy. Fuels. Heating
681.7	Optical apparatus and instruments
683.5	Bottling and dispensing accessories
683.9	Stoves. Heating appliances
686.6	Glazing. Glass cutting
686.7	Mirror making
691	Building materials. Building components
692	Structural parts and elements of buildings
693	Bricklaying and similar building crafts
696	Equipment, services, installations in buildings (sanitary, gas, steam, electrical)
699.8	Protection of and in buildings. Emergency precautions
72.04	Architectural details and finishes, decoration and ornament
738	Ceramic arts. Pottery
748	Vitreous arts. Artistic glass and crystal ware

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to “common and special auxiliaries”) will be found in BS 1000A and BS 1000C.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combination rather than of common and special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information.

This usually results in longer notation, however, and for information for more restricted use, the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time “ . . . ”, point of view .00 . . . , materials – 03 . . . and persons – 05... are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Examples of the use of common auxiliaries are given below.

666.1.001.5	Glass research
.002.5	Tools, machines and devices for glass production
.67	By-products of the glass industry
.68	Waste, residues, scrap from the glass industry
.005	Installation and equipment of glass works
.006	Space, site, accommodation of glass works
.008	Organization in glass works
.1	Decision-making. Decision-taking organs
.2	Management. Administrative organs
.009.7	Relationships with clients, customers
666.1 – 05	Persons in the glass industry

Special auxiliaries. The – 2/– 8 special auxiliaries listed under 62 and the – 9 special auxiliaries listed under 66 are applicable throughout the schedule (a selection of the – 4 special auxiliaries is given under 666). They may be detached from the number under which they are listed and applied to any subdivision of 666 where the result forms a meaningful combination.

The .0 special auxiliaries listed under 666 are also applicable throughout the schedule, as are the .0 special auxiliaries listed under 66, except where different meanings for these numbers are given in this section.

The – 1 special auxiliaries listed under 666.3 are applicable to 666.3/.7, and the .0 special auxiliaries listed under 666.11 are applicable to 666.11/.28.

Typographic presentation

Small type is used for cancelled numbers or text. The arrow $\rightarrow$ means either “see” or “see also” according to the context. The symbol $\cong$ “subdivide as” means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

SCHEDULE

666 GLASS INDUSTRY. CERAMICS. CEMENT AND CONCRETE

Special auxiliary subdivisions

666-4	STATE, CONDITION, FORM OF MATERIALS, SURFACES, OBJECTS AND PRODUCTS
	666-4 $\cong$ 62-4, e.g.
	666-405.8 Porous, sponge-like objects
	-41 Flat objects
	-415 Thin plate and sheet
	-417 Non-uniform flat objects
	.2 Corrugated plate and sheet
	-42 Profiled objects. Sectional material. Bars. Rods. Beams. Posts
	-426 Wires. Threads
	-43 Solid objects of various shapes
	-431 Short prismatic objects. Bricks. Tiles
	-433 Edge shapes. Chamfers. Bevels. Mouldings. Roundings
	-434 Short cylindrical and conical objects
	-436 Spherical and spheroidal objects
	-45 Slotted, grooved objects
	-46 Hollow objects
	-462 Tubes. Pipes
	-465 Open hollow objects. Crucibles. Beakers. Pots
	-472 Objects with holes, bores
	-478 Objects with perforations for weight reduction etc. Hollow bricks
	-492 Powders. Grains
	-494 Objects made of irregular fibres. Felt products etc.
666.016	COMPOSITIONS, FORMULAE OF MIXTURES
.1	Batch composition. Mixing unfired materials, raw materials. Compositions. Mixtures
.2	Composition of glass, ceramic products and cement. Cement proportions. Tscheuchner's formula for glass etc.
.5	Composition of glazes
	666.016.5 $\cong$ 666.295
	<i>To be used only in combination with specific ceramic products</i>
	666.51.016.5 Glazes for hard porcelain

Principal divisions

666.1 GLASS INDUSTRY. GLASS TECHNOLOGY. GENERALITIES ON GLASS MANUFACTURE. GLASS IN THE COMPREHENSIVE SENSE

Table 1i common auxiliaries of point of view are applicable here (see examples on page 1)

Special auxiliary subdivisions for 666.1

	<i>Processes for glass production (at 666.1.03) and processes for glass working (at 666.1.05) are separated from glass articles which are classed under principal divisions</i>
	<i>Although the .0 subdivisions may be used as special auxiliaries, it may be considered preferable to use colon combination, e.g.</i>
666.1.033.6:666.175.6	Suction machines for production of electric light bulbs
	<i>The .0 special auxiliaries listed below are applicable throughout 666.1/.28</i>
666.1.01	GLASS ENGINEERING SCIENCE
	<i>Subdivisions can be derived from 66.01</i>
666.1.022	PROCESSES AND PLANT FOR PREPARATION OF RAW MATERIALS IN GENERAL. BATCH PREPARATION
	<i>Details of sizing, sieving and separation may be denoted by colon combination with the subdivisions of</i>
	621.928, e.g.
666.1.022:621.928.1	Sorting
	:621.928.2 Sieving
	:621.928.6 Air separation, classification
	:621.928.8 Magnetic separation
	<i>Preparation of specific raw materials comes under the appropriate subdivision of 666.12, e.g.</i>
666.122.2:666.1.022:66.047	Drying of sand for batch preparation
.1	Pretreatment of raw materials
	<i>Receipt, unloading, weighing, conveying and storing details may be denoted by colon combination, e.g.</i>
666.1.022.1:621.867.8	Pneumatic conveyors for raw materials
.2	Comminution of raw materials
	→621.926 Crushing, grinding, pulverizing, especially of hard materials
.4	Mixing of raw materials
	→621.929 Mixing, blending of solids or semi-solids
	<i>Further particulars may be denoted by colon combination, e.g.</i>
666.1.022.4:539.215.7	Homogeneity of the mixture
	:66.093.2 Humidifying raw materials during mixing
	:681.26 Weighing machines used during mixing
	<i>Duration of mixing may be denoted by "4" from Table 1g common auxiliaries of time</i>

666.1.022.8	Treatment of prepared batch before melting. Briquetting, granulation etc. <i>Further particulars may be denoted by colon combination, e.g.</i> 666.1.022.8:622.788 Briquetting :66.099.2 Granulation	666.1.031.2/.6 (cont'd)	662.75 Liquid fuels. Mineral oil technology 662.76 Gaseous fuels. Gas producers <i>Further particulars of the subdivisions of 666.1.031.2/.6 may be denoted by colon combination with the subdivisions of 66.0, e.g.</i> [666.1.031.2/.6]:66.012.492 Furnace campaign :66.041.22 Furnace atmospheres :66.041.24 Heating and cooling of furnace :66.042.4 Closing devices for furnaces :66.042.85 Furnace walls :66.042.875 Furnace crown :66.042.877 Suspended roof :66.042.882 Recuperators :66.042.886 Regenerators :66.042.93 Valves :66.042.94 Ducts, pipes. Flues :66.042.941 Air ducts and pipes :66.042.945 Gas pipes :66.042.946 Flues :66.044.2 Furnace repair
666.1.03	PROCESSES AND PLANT FOR MELTING AND WORKING GLASS		
666.1.031	GLASS MELTING <i>Defects may be denoted by colon combination with the subdivisions of 666.119</i>		
.1	Glass melting in general. Processes during glass melting		
.11	Sintering of the batch →666.125 Batch		
.12	Charging. Charging installations and machines		
.122	Feeding a bushing assembly for fibre manufacture <i>For molten glass</i> →666.11-404.2 <i>For glass cullet</i> →666.127 <i>For glass rods etc. for further working</i> → 666.128		
.13	Melting. Fritting <i>Further particulars may be denoted by colon combination, e.g.</i> 666.1.031.13:532.5 Glass currents :536.5 Melting temperature :66.012.5 Melting yield, output :66.046.512 Melting period :66.046.594 Vaporization of glass during melting :66.069.85 Foam formation	.2	Tank furnaces
.14	Colouring. Decolorizing →666.124.2 Colouring agents 666.124.4 Decolorizers	.21	Designations. Dimensions. Designs
.15	Refining. Homogenization. Mixing, stirring, blocking →66.063 Mixing of liquids. Dilution. Homogenization	.211	Unit melters
.153	Refining →532.529.6 Motion of gas bubbles and liquid drops 666.124.5 Refining agents	.212	Day tanks
.154	Homogenization <i>Further particulars may be denoted by colon combination with the subdivisions of 66.0, e.g.</i> 666.1.031.154:66.063.2 Homogenization by diffusion :66.063.8 Homogenization by mechanical stirring :66.084 Homogenization by ultrasound	.22	Tanks
.16	Thermal homogenization of the melt before forming	.222	Tank walls <i>Further particulars may be denoted by the - 7 special auxiliaries listed under 62, e.g.</i> 666.1.031.222-712 Forced cooling by air or gas draught
.2/.6	Glass melting furnaces in general →662.6/.9 Fuel economy. Fuels. Heating especially	.224	Tank bottoms
		.226	Separation of tank compartments. Partition walls with throat or weir
		.228	Glass surface. Glass depth <i>Surface level controllers may be denoted by the - 55 special auxiliaries listed under 62</i> →681.128 Level, stage indicators for vessels, containers
		.23	Dog-houses. Charging holes
		.24	Construction and arrangement of ports →662.94 Liquid fuel furnaces 662.95 Gaseous fuel furnaces (gas-fired furnaces)
		.29	Special refractory materials and equipment →666.76 Refractory bodies and products <i>Refractory materials for furnace walls and crowns, recuperators, regenerators etc. may be denoted by colon combination, e.g.</i> 666.1.031.29:66.042.875:666.76 Refractory materials for the crown of tank furnaces

666.1.031.293	Bridges. Floaters. Rings. Blocks. Potettes etc.	666.1.031.842	Orifice. Orifice rings
.295	Tank blocks. Throat blocks	.844	Feeder plungers (feeder needles)
.297	Blocks between tank blocks and crown. Tuckstones	.848	Shears
.3	Pot furnaces. Crucible furnaces	.9	Other ancillary equipment. Furnaceman's tools. Stirrers
.31	Designations. Dimensions. Designs		666.1.031.9 $\cong$ 66.042
.312	Closed pot furnaces	666.1.032	GLASS FORMING IN GENERAL. GLASS BLOWING IN GENERAL. GLASS BLOWING WITHOUT COMPRESSED AIR IN PARTICULAR. HOT DECORATIVE SHAPING OF HOLLOW GLASS
.314	Open pot furnaces		[cancelled] $\rightarrow$ 666.1.032.31, 666.1.032.823
.32	Combustion chamber. Pot setting. Siege	.1	[cancelled] $\rightarrow$ 666.1.032.32
.34	Construction and arrangement of ports	.2	Mouthblowing without compressed air
.39	Special refractory materials and equipment $\rightarrow$ notes under 666.1.031.29	.3	Generalities on mouthblowing
.391	Pots. Melting crucibles	.31	Mouthblowing tools. Glassblower's chair. Blowing irons. Flaring tools. Punties. Pucellas. Irons and shears
.393	Rings. Covers. Closure plates etc.	.32	Mouthblowing without moulds (with or without the use of tools)
.395	Seats	.34	Mouthblowing in moulds $\rightarrow$ 666.1.032.53 Glass blowing moulds
.4	Special glass melting furnaces such as bushings for fibre manufacture <i>For indirect resistance heating $\rightarrow$ 621.365.4</i> <i>For inductive heating $\rightarrow$ 621.365.5</i> <i>For liquid fuel furnaces $\rightarrow$ 662.94</i> <i>Further particulars may be denoted by colon combination, e.g.</i> 666.1.031.4:666.3 Ceramic or refractory bushings :669.14 Iron-carbon alloy bushings :669.231 Platinum bushings	.35	Mouthblowing in fixed moulds
.42	Hager, Manville and Tel bushings	.353	Mouthblowing in rotating moulds $\rightarrow$ 666.1.032.56 Rotating moulds for glass shaping
.44	Nozzles	.358	Mouthblowing in moulds with subsequent shaping (after reheating) by spinning, drawing, shearing, blowing or air suction
.5	Electric melting furnaces <i>The method of heating may be denoted by colon combination with the subdivisions of 621.365, e.g.</i> 666.1.031.5:621.365.3 Furnaces with direct resistance heating :621.365.4 Furnaces with indirect resistance heating :621.365.5 Furnaces with inductive heating :621.365.6 Furnaces with mixed electric heating	.36	Swinging devices for blowing sheet glass
.6	Other kinds of furnace and process	.37	Mouthblowing from glass sheet
.61	Laboratory furnaces	.38	Mouthblowing of objects of special shape, e.g. feet, stems, handles
.62	Vertical furnaces. Round furnaces <i>For flattening furnaces $\rightarrow$ 666.1.037.92</i> <i>For lehns $\rightarrow$ 666.1.038.2</i> <i>For furnaces for firing-on $\rightarrow$ 666.1.058.51</i>	.4	[cancelled] $\rightarrow$ 666.1.032.38
.7	Accessory devices for feeding forming machines	.5	Generalities on moulds for injecting, pressing, casting or blowing glass with or without the use of compressed air or suction. Glass mould technology <i>Mould materials may be denoted by Table 1k -03 common auxiliaries, e.g.</i> 666.1.032.5-034.13 Cast iron moulds -035.3 Wooden moulds <i>Applications of particular processes or articles may be denoted by colon combination, e.g.</i> 666.1.032.5-035.3:666.175.4 Wooden moulds for lampshade production
.71	[cancelled] $\rightarrow$ 666.1.031.74/.75	.53	Glass blowing moulds
.73	Libbey-Owens suction rotating bowl	.532	Blank moulds (parison moulds) <i>Further particulars may be denoted by colon combination, e.g.</i> 666.1.032.532:666.1.033.4 Blank moulds for the press-and-blow process
.74	Feeder forehearths	.533	Neck rings
.75	Devices for supplying the glass to the bushings	.534	Blow moulds
.79	Other glass feeding devices	.54	Moulds for glass casting
.8	Ladling, measuring-out molten glass. Feeders. Blow cases, Severin type	.55	Moulds for glass pressing
.84	Gob feeders	.56	Rotating moulds for glass shaping
.841	Gobs: weight, shape	.6	[cancelled] $\rightarrow$ 666.1.032.36
		.7	[cancelled] $\rightarrow$ 666.1.032.37

666.1.032.8	Surface decoration. Sticking. Introduction of bubbles. Sealing	666.1.033.7	Sievert process and its combination with other processes
.82	Surface decoration during forming	.8	Glass blowing by paste mould machines, machines with coated moulds <i>For early paste mould machines, machines with coated moulds → 666.1.033.2</i>
.822	Iridizing →666.1.058.6 Stains and lustres on glass. Yellow stains, Iridizing	.9	Details of machines for blowing hollow glassware <i>Further particulars may be denoted by the -2/-8 special auxiliaries listed under 62</i>
.823	Flashing. Casing →666.25 Flashed glasses. Cased glasses. Glasses coloured on the surface	666.1.034	CASTING OF GLASS <i>For cast glass in general → 666.164</i>
.824	Production of cracks in the surface layer	666.1.035	PROCESSES AND APPARATUS FOR FORMING GLASS BY INJECTING, PRESSING, ROLLING, STAMPING
.825	Sticking of glass or other material to the surface (glass powder, ballotini, glass films etc.)	.1	Injecting
.826	Lapping by means of fibres	.2	Pressing →666.185 Pressed glass
.83	Sticking of glass masses	.21	Manual presses
.832	Sticking without further treatment	.22	Fully automatic presses
.833	Sticking with additional shaping (stems, handles, feet etc.)	.3	Generalities on rolling of glass →621.771 Rolling. Rolling mills 666.162 Plate glass
.834	Sticking after preliminary shaping (in the mould, by means of tools)	.31	Rolling a single sheet of glass. Intermittent casting process
.835	Sticking by rotating the article (glass film, filaments)	.311	Casting on to a table
.84	Deliberate introduction of bubbles into glass	.312	Casting between rollers
.842	Introduction of bubbles by melting without refining agent	.32	Simultaneous rolling of two sheets of glass
.843	Introduction of bubbles by addition of foaming agent	.321	Casting on to a table
.844	Introduction of bubbles by covering the parison with glass powder or other materials	.322	Casting between rollers
.845	Introduction of bubbles by drilling with a tool	.33	Rolling with simultaneous insertion of wire, asbestos, granular material etc. 666.1.035.33 ≅ 666.1.035.3, e.g. 666.1.035.332 Double casting process
.85	Sealing of materials to glass during forming	.4	Continuous rolling
.852	Sealing of coloured or clear glass (as coatings, fibres, powders). Production of millefiori	.43	Rolling with simultaneous insertion of wire etc.
.853	Sealing of non-vitreous materials (silicates, plastics, mica, metal grains, wires, foils, alloys etc.)	.45	Rolling with further shaping following immediately
666.1.033	GLASS BLOWING WITH COMPRESSED AIR <i>For blown hollow glass → 666.17</i>	.5	Rolling of ornamental, patterned glass etc.
.2	Processes and apparatus for finishing articles started by the glassblower. Early paste mould machines, machines with coated moulds	.6	Auxiliary equipment. Supports for glass panels. Forks, tongs for crucibles. Pot setting and tipping devices. Casting tables etc.
.3	Filling inverted parison moulds by pouring in glass. Blowing the parison. Turning the parison. Blowing to final shape. Reversing machines	.7	Casting rollers →621.771.07 Design and construction of rolls <i>Further particulars may be denoted by the -2/-8 special auxiliaries listed under 62, e.g.</i> 666.1.035.7-21 Housings, mountings of rollers -4 Shapes of rollers -5 Control of rollers -71 Cooling of rollers -75 Deformation of rollers -77 Maintenance of rollers
.4	Pressing the parison. Transfer to blow mould. Blowing to final shape. Press-and-blow machines	.8	Forming of solid glass objects
.5	Take-out processes in general <i>Further particulars may be denoted by colon combination, e.g.</i> 666.1.033.5:62-712 Take-out after cooling the mould by air or gas :621.5 Take-out using compressed air	.82	Hand working, e.g. by drawing, shearing
.6	Machines whose parison moulds dip into the molten glass and are filled with glass by suction or injection. Suck-and-blow machines	.83	Working after pretreatment by other processes
		.84	Lamp working

666.1.035.85	Indenting glass by embossing	666.1.036.823.7	Electrodes
666.1.036	PROCESSES AND APPARATUS FOR FORMING MOLTEN GLASS BY DRAWING, CENTRIFUGING, PULVERIZING, FOAMING ETC.	.824	Thermal insulation at the bottom of the ribbon
.2	Drawing by centrifugal processes.	.83	Thermal conditioning of the ribbon
	Drawing by gaseous entrainment	.832	Drawing chambers
	→666.189.2 Glass drawn into fibres and articles made from them	.2	L-shaped blocks
.21	Centrifuging processes. Blowing glass into panels (sheet glass). Drawing fibres by centrifuging. Moulding by centrifuging (ampoules, television tube cones etc.)	.4	Front and rear lip tiles
.212	Dish or bowl for centrifuging	.834	Coolers
.23	Drawing glass fibres by blowing and by flame from a bushing	.836	Screens
.25	Atomizing with compressed air and drawing into fibres. Glass wool methods	.839	Other devices
.3	Forming by shaking	.84	Gas flows
.4	Processes for drawing flat glass	.842	External devices for injecting gas
.42	Processes with debiteuse on the glass surface (Fourcault process)	.843	Devices for recirculating gas
.43	Processes with submerged draw bar (Pittsburgh process)	.844	Gas pipes
.44	Processes without forming blocks (Colborn process)	.85	Simultaneous auxiliary treatments
.45	Processes with debiteuse at the bottom of the drawing chamber	.852	Enamelling
.47	Overflow processes		<i>For enamels → 666.29</i>
.472	Processes in which glass flows over a flow block	.853	Metallizing
.474	Corning processes		<i>For coating glass with metal or other materials → 666.1.056</i>
.5	Processes for drawing glass in the form of cylinders, tubes, bars or rods from the bath or with a blowing pipe. Nozzle drawing process for production of glass silk. Production of hollow fibres	.854	Staining
	→666.173 Glass tubes		<i>For stains on glass → 666.1.058. 6</i>
	666.188 Glass bars. Glass rods	.858	Ion exchange
	666.189.212 Continuous glass fibres. Textile glass		<i>For modification of the chemical structure or the composition of the surface layers → 666.1.053.65</i>
.6	Forming by inflation, foaming, by physical or chemical means	.87	Bending rollers
	→666.189.3 Porous glass with separated pores. Foam glass. Inflated glass		<i>Further particulars may be denoted by the -2/-8 special auxiliaries listed under 62 (see examples under 666.1.035.7)</i>
.7	Float processes	.9	Equipment for forming glass whether or not in contact with a molten material
.72	Processes involving flotation on a bath of molten material	.91	Treatment furnaces
.73	Processes involving immersion in a bath of molten material	.92	Support
.74	Processes using a graphite floor		<i>Materials may be denoted by Table Ik - 03 common auxiliaries</i>
.75	Processes using the effect of flames	.922	Recirculation of molten material
.79	Other processes	.923	Devices for skimming molten material
.8	Machines and devices for drawing and forming of flat glass	.93	Devices for transporting glass
.81	Drawing chambers	.932	Transporting in the form of molten glass
.812	Devices affecting glass flow	.934	Transporting in the form of batch on the bath of molten material
.814	Devices for thermal conditioning	.94	Devices for forming the edges
.82	Formation of the meniscus	.95	Devices for rolling
.822	Debiteuse	.96	Devices for controlling the atmosphere
.823	Formation of the edges	.97	Devices for simultaneous treatment of glass (colouring, staining etc.)
.2	Edge rolls	.98	Devices for extracting glass
.4	Forks	666.1.037	SUBSEQUENT SHAPING OF GLASS
		.1	Rod drawing process for glass fibre production
		.2	Transformation of fibres to obtain stratified products
		.22	Contact processes
		.23	Contact and pulverization processes
		.24	Vacuum processes
		.25	Spinning processes
		.26	Shaping processes
		.27	Centrifuging processes
		.28	Moulding

666.1.037.282	Moulding between paired moulds from mats, premixed or impregnated	666.1.038	THERMAL TREATMENT. ANNEALING. STRENGTHENING BY HEAT TREATMENT OR BY CRYSTALLIZATION. REHEATING. DEVELOPMENT OF COLOUR
.284	Injection moulding		
.3	Various methods of treatment		
.31	Sintering of glass powder. Production of articles from glass grains	.1	Theory and process of annealing and thermal toughening of glass articles
	→666.112.8 Glasses of almost pure silica. Vycor glass		→539.213.22 Effect of cooling on material in the vitreous state
	666.189.24 Porous glass with interconnected pores		666.11.01:536.421.2 Softening point of glass
.32	Leaching-out of individual glass components	.12	Temnization (heat treatment other than normal annealing to facilitate cutting)
.4	Cracking-off. Fusing. Melting-off, e.g. of small tubes	.2	Lehrs
	→666.1.053.562 Fire polishing (fire finishing)		<i>Individual parts may be denoted by colon combination with the subdivisions of 66.042, e.g.</i>
	661.1.054.2 Joining in the hot state. Welding. Soldering		666.1.038.2:66.042.4 Closing devices on lehrs
.42	Fusing	.21	Intermittent lehrs. Annealing kilns. Soaking pits
.44	Cracking-off. Cutting-off. Edge melting	.22	Continuous lehrs for flat glass
.5	Fusing of glass to metal	.221	Annealing zones in flattening furnaces
	661.1.037.5 $\cong$ 669, e.g.	.23	Continuous lehrs for hollow glass
	661.1.037.527 Fusing of glass to tungsten	.234	Stackers
.6	Fusing of glass to non-metallic materials	.24	Transport of glass products to lehrs
.65	Fusing of glass to ceramics		→621.867.2 Belt conveyors, elevators
.7	Mechanical production of ampoules, tablet bottles, test tubes, miniature light bulbs		621.867.8 Pneumatic conveyors, elevators
	→666.176 Ampoules. Tablet bottles, test tubes etc.	.25	Breakage detection devices
.8	Lamp working	.26	Control devices for withdrawal of rollers
.82	Manipulation. Techniques	.27	Wooden irons
.821	Production of glass apparatus	.3	Strengthening glass articles by rapid cooling. Thermal toughening of glass
	<i>For thermometers → 536.51</i>		<i>Further particulars may be denoted by colon combination, e.g.</i>
	<i>For glass apparatus produced by lamp working → 666.174</i>		666.1.038.3:66.15 Thermal toughening of flat glass
.822	Working using enamels		:666.17 Thermal toughening of hollow glass
	<i>Only as part of lamp working</i>	.32	Thermal toughening. Physical toughening
	<i>For glass bars, rods etc. → 666.128</i>		<i>Further particulars may be denoted by colon combination, e.g.</i>
	<i>For enamel fluxes → 666.291</i>		666.1.038.32:66.084 Toughening by ultrasound
.823	Production of glass figurines, Christmas tree decorations and similar articles	.322	Uniform toughening
.825	Apparatus and tools for lamp working	.324	Differential toughening
	<i>Further particulars may be denoted by colon combination, e.g.</i>	.33	Strengthening by controlled crystallization
	666.1.037.825:542.53 Blowpipes		<i>For crystal growth in solids → 548.526</i>
	:621.61 Blowers		<i>For devitrified glasses → 666.266.6</i>
	:66.076 Gasholders	.332	Uniform strengthening
.9	Other techniques for final shaping of glass	.334	Differential strengthening
.91	Flaring. Widening. Pinching. Calibrating glass tubes. Flaring turntables. Production of lipped glass	.34	Transport of glass products to thermal treatment furnaces other than lehrs
.92	Bending, curving, flattening of sheets and tubes. Bending furnaces. Flattening furnaces		→621.867.2 Belt conveyors, elevators
.93	Impression of patterns		621.867.8 Pneumatic conveyors, elevators
.97	Production of spherical and similar articles. Production and varnishing of glass beads, enamel beads	.4	Reheating furnaces. Toughening furnaces
	<i>For glass beads etc. → 666.27</i>	.5	Toughening glass fibres during drawing
.98	Other kinds of treatment	.6	Thermal coloration. Striking of coloured glass. Development of colour by reheating, e.g. in ruby glasses or in yellow glasses by silver staining
.981	Perforation of glass articles by inserting and withdrawing metal wires		

666.1.038.6	→539.213.1 Theory and constitution of the vitreous state	666.1.053.51	Theory and process of grinding and polishing
	666.266.6 Crystalline glass products. Devitrified glasses. Glass ceramics	.511	Rough grinding. Grinding. Matt grinding
.7	Other kinds of heat treatment for glass products	.512	Polishing. Preliminary polishing. Final polishing. Lapping
.8	Devitrification processes	.52	Kinds of grinding technique
	<i>For devitrified glasses → 666.266.6</i>	.521	Surface grinding
.82	Development of photosensitive glasses	.522	Edge grinding. Corner cut, mitre cut. Bevel cut
.9	<i>[cancelled] → 666.1.038.6</i>	.523	Ornamental cut. Deep cut. Relief cut. Beading
666.1.039	STRENGTHENING GLASS PRODUCTS BY MODIFICATION OF THE STRUCTURE OR OF THE COMPOSITION OF THE SURFACE LAYERS	.524	Grinding for sealing the openings of apparatus and general glassware
.2	Strengthening by ion exchange or metal oxide diffusion (e.g. with titanium dioxide) <i>For diffusion mixing → 66.063.2</i> <i>For modification of the chemical structure or the composition of the surface layers → 666.1.053.65</i>	.525	Grinding optical glasses <i>For ground optical glasses → 666.224</i> <i>For grinding of optical elements → 681.7.023.7</i>
.3	Strengthening by Vycor process <i>For Vycor glass → 666.112.8</i>	.54	Equipment for grinding and polishing flat glass <i>For grinding, polishing machines → 621.924</i>
.4	Strengthening by acid attack <i>For acid polishing → 666.1.053.561</i>	.542	Surface grinding machines with turntables
.5	Strengthening by surface coating, e.g. by enamelling, casing <i>For casing → 666.1.032.823</i> <i>For enamels → 666.29</i>	.543	Machines for continuous grinding and polishing of flat glass on one side
666.1.05	SUBSEQUENT WORKING OF GLASS OR GLASS ARTICLES. GLASS FINISHING IN GENERAL	.544	Machines for continuous grinding and polishing of flat glass on both sides simultaneously
666.1.053	MECHANICAL OR HAND WORKING OF GLASS <i>Further particulars may be denoted by colon combination with the subdivisions of 621.9</i> <i>Operation and control details may be denoted by the -5 special auxiliaries listed under 62, e.g.</i> 666.1.053-51 Manual working -52 Automatic working	.545	Machines for other kinds of grinding and polishing of flat glass, e.g. incision of ornaments and grooves
		.55	Equipment for grinding and polishing hollow glassware
.2	Cutting-off. Separating <i>For cracking-off → 666.1.037.4</i> <i>For glass cutting for glazing etc. → 686.62</i>	.551	Surface grinding machines
.23	Cutting tools (wheel, diamond, burner etc.)	.552	Machines for grinding non-planar surfaces, for ornamental grinding, for stopper grinding etc.
.24	Cutting tables	.56	Other polishing processes
.25	Snapping devices	.561	Acid polishing and associated equipment
.28	Examination of defects with reference to cutting-off	.562	Fire polishing (fire finishing)
.3	Drilling. Planing. Turning. Milling. Screw cutting	.6	Engraving. Etching. Matt finishing
.4	Embossing. Grooving <i>Tools may be denoted by colon combination with the subdivisions of 621.8/9, e.g.</i> 666.1.053.4:621.881.4 Grooving tongs	.61	Mechanical engraving. Pantography. Diamond point engraving. Scribing. Rough grinding. Stippling <i>For engraved glasses → 666.281</i>
.5	Grinding and polishing of glass in general →621.921 Abrasives. Grinding materials. Polishing materials	.613	Engraving and badging by electrolysis
		.62	Mechanical matt finishing. Sandblasting <i>For sandblasting machines and equipment → 621.924.9</i> <i>For matt glasses → 666.284</i>
		.63	Chemical treatment. Matt etching. Badging using etching materials
		.64	Frosting <i>For frosted glass → 666.264.4</i>
		.65	Modification of the chemical structure or the composition of the surface layers. Production of anti-reflection coatings. Improving the surface of glass →666.1.039.2 Strengthening by ion exchange or metal oxide diffusion
			666.1.056 Coating glass with metal or other material. Metallizing. Production of protective films
		.8	Fragmentation

666.1.054	JOINING SEVERAL GLASSES OR GLASS ARTICLES	666.1.058	STAINING, PAINTING AND OTHER TECHNIQUES FOR APPLYING COLOURS TO GLASS
.1	Joining in the cold state. Joining using cements. Sticking <i>For adhesives</i> → 665.93, 666.968 <i>For later products, e.g. adhesives</i> → 678.061 <i>For fine cementing of optical glasses</i> → 681.7.024.2	.1	Colours for glass staining. Glass colours. Black stain <i>For painted glass</i> → 666.254 <i>For enamel colours, stains</i> → 666.291.3 <i>For coatings for glass</i> → 667.636.23
.2	Joining in the hot state. Welding. Soldering <i>For welding and allied techniques</i> → 621.791 <i>For fusing, melting-off</i> → 666.1.037.4 <i>For bonding of optical glasses</i> → 681.7.024	.4	Transfers. Printing. Spraying. Silk-screen process <i>For screen printing</i> → 655.332 <i>For stencil duplicating machines</i> → 681.621.3 <i>For presses for printing on glass</i> → 681.625.799
.3	Production of laminated glass <i>For laminated glass</i> → 666.155	.5	Firing-on
.4	Production of double or multiple glazing (the major part of the surfaces of which are not in contact) <i>For double and multiple glazing</i> → 666.157	.51	Furnaces for firing-on
666.1.055	COATING ARTICLES WITH A LAYER OF GLASS <i>For flashing</i> → 666.1.032.823 <i>For enamels</i> → 666.29	.6	Mordant colours and lustres on glass. Yellow staining. Iridizing
.1	Coating by spraying-on molten glass	.7	Colouring glass by filling interconnected pores with pigment
.2	Coating by dipping in molten glass	.8	Glass painting with conventional colours. Eglomise work (back-painting of glass). Cold painting. Lacquering <i>For coating technique on glass</i> → 667.646.23 <i>For glass as a material on which to paint</i> → 75.023.15
.3	Coating by vitrification of an applied layer	.9	[cancelled] → 666.1.059
666.1.056	COATING GLASS WITH METAL OR OTHER MATERIAL. METALLIZING. PRODUCTION OF PROTECTIVE FILMS → 539.23 Production of thin films 621.793 Metal coating and plating. Production of conducting, semiconducting, resistive, dielectric, magnetic coats and films. Metallization 686.4 Metallizing: gilding, silvering, bronzing, metallic varnishing 686.7 Mirror making <i>Coating materials may be denoted by colon combination, e.g.</i> 666.1.056:546.284-31 Coating with silica. Siliconizing :661.143 Coating with luminescent, phosphorescent materials 666.1.056:666.189.4 Coating with powdered glass :669.228.4 Silvering of glass :669.384 Coppering of glass <i>Processes may also be denoted by colon combination, e.g.</i> 666.1.056:621.793.7 Metallizing glass by spraying	666.1.059	OTHER DECORATION TECHNIQUES, E.G. INTRODUCTION OF AIR BUBBLES
		Principal divisions	
		666.11/.28	KINDS OF GLASS. GLASS ARTICLES. GLASSWARE <i>For processes for making the various kinds of glass and glass articles</i> → 666.1.03, 666.1.05
		666.11	GLASS. GLASS ARTICLES IN GENERAL → 549.691.1 Anhydrous amorphous silicates. Natural glass. Tektites-Mineralogy <i>Where no main number exists, the use of glass may be denoted by colon combination or by common or special auxiliaries, with any appropriate subdivision of 666.11/.28, e.g.</i> 666.11:069 Glass collections :53.072.1 Glass for models representing physical phenomena :620.197.6 Glass as protective coating :621.375.826 Glass for lasers :621.892.9 Glass as lubricant 666.11(086.3) Glass specimens 666.11“ - ” Ancient glass 666.11.002.33 Glass as raw material :38 Glass as a substitute material :004.5 Care of glass 666.11 - 404.2 Liquid glass. Molten glass <i>For glass as electrical insulating material</i> → 621.315.612.6 <i>For window cleaning</i> → 648.53
.2	Metallizing by chemical precipitation		
.3	Metallizing by electrochemical means		
.4	Metallizing by physicochemical means		
.6	Metallizing by physical means		
.62	Metallizing by evaporation		
.64	Metallizing by sputtering		
.68	Metallizing by decomposition		
.8	Powder coating		

666.11 (cont'd)	<i>For cleaning devices and equipment for glass items → 648.56</i> <i>For cleaning of bottles, glasses → 683.561</i> <i>For glass as building material → 691.6</i> <i>For care of objets d'art → 7.025.3</i>	666.11.016.246	Cations not entering the vitreous network, e.g. Li ⁺ , Na ⁺ , K ⁺
		.25	Anionic components <i>Further particulars may be denoted by colon combination, e.g.</i> 666.11.016.25:546.16 Fluorine as glass component
Special auxiliary subdivisions for 666.11			
666.11.01	GLASS PROPERTIES. GLASS TESTING <i>Specific test methods and properties may be denoted by colon combination, e.g.</i>	666.11.017	Science of glass as material
	666.11.01:531.424 Density of glass	.019/.019.263 [cancelled] → 666.119/.119.6	
	:532.13 Viscosity of glass	Principal divisions (continued)	
	:532.64 Wetting angle of glass	666.112	GLASSES ACCORDING TO COMPOSITION
	:535.323 Refractive index of glass	.2	Alkali-silica glasses. Water-glass <i>For sodium water-glass, potassium water-glass → 661.683/.684</i>
	:535.343 Absorption spectra of glass	.3	Alkali-lime-silica glasses
	:535.661 Colours of glass bodies	.4	Lead glasses
	:536.21 Thermal conductivity of glass	.43	Expressly lead-free glasses
	:536.421.2 Softening point of glass	.5	Glasses containing iron and alumina
	:536.63 Specific heat of glass	.6	Barium glasses
	:537.226.2 Dielectric constant of glass	.7	Borosilicate glasses, e.g. Pyrex glass
	:537.311.32 Electrical conductivity of glass	.8	Glasses of almost pure silica. Vycor glass <i>For sintering of glass powder → 666.1.037.31</i> <i>For strengthening by ion exchange → 666.1.039.2</i> <i>For strengthening by Vycor process → 666.1.039.3</i> <i>For fused silica, fused quartz → 666.192</i>
	:539.213.1 Theory and constitution of the vitreous state	.9	Glasses with other compositions <i>The characteristic component of a glass may be denoted by colon combination with the subdivisions of 546</i>
	:539.411 Resistance to compression of glass	.92	Glasses without silica or with only a low silica content <i>Further particulars may be denoted by colon combination, e.g.</i> 666.112.92:546.18 Phosphate glasses :546.45 Beryllium glasses
	:539.424 Breaking strength of glass	.93	Alkali-free glasses
	:539.434 Heat resistance of glass	666.113	GLASSES ACCORDING TO OXIDE COMPONENTS <i>Specific component oxides may be denoted by adding to 666.113 the final digits from subdivisions of 546, the element with the highest decimal number coming first. These final digits are separated from each other by apostrophe, e.g.</i> 666.113.62'47'41'33'32'28'27 Glass containing Na ₂ O, K ₂ O, CaO, ZnO, Al ₂ O ₃ , B ₂ O ₃ , SiO ₂
	:539.531 Hardness of glass		
	:543 Chemical analysis of glass		
	:620.162.4 Internal or external pressure testing of glass		
	:620.171.5 Photoelastic tests of glass		
	:620.172 Tensile tests on glass		
	:620.173 Compressive strength tests on glass		
	:620.193.23 Resistance of glass to humidity		
	:620.193.4 Resistance of glass to chemical action		
666.11.016.2	Composition of glasses →666.125.016.1 Batch composition		
.22	Components of glasses <i>Further particulars may be denoted by colon combination, e.g.</i> 666.117.4.016.22:546.623-31 Alumina as component of chemically resistant glass	.2	Oxide glasses
		.3	Non-oxide glasses
		.32	Chalcogenide glasses
		.8	Glasses containing specific minor components
.24	Cationic components	666.117	GLASSES ACCORDING TO TECHNICAL PROPERTIES
.242	Cations entering directly the vitreous network, e.g. Si ⁴⁺ , B ³⁺	.1	Glasses with characteristic working properties. Short glasses. Long glasses
		.2	Glasses with particularly high or low melting temperature. Soft glasses

666.117.3	Glasses with particularly high resistance to thermal shock. Heat-resistant glasses. Oven glassware	666.119.48	Breaking or scoring defects. Scratches. Flakes. Star fracture etc.
.4	Glasses with particularly high chemical durability. Chemical-resistant glasses	.49	Other defects such as defects appearing with time. Stain. Sticking mark. Iridescence. Condensation etc.
.9	Glasses with other characteristic properties <i>Further particulars may be denoted by colon combination, e.g.</i>	.6	Defects in optical glass. Short finish. Sleek. Staining
	666.117.9:532.612 Glasses with special surface tension properties	666.12	RAW MATERIALS FOR GLASS MAKING AND GLASS WORKING IN GENERAL
	:537.226 Glasses with special dielectric properties		<i>Specific materials may be denoted by colon combination with the subdivisions of 546, 552 and 661</i>
	:539.4 Glasses with special strength properties		<i>Raw materials containing more than one of the glass components given in the subdivisions below should be classed at the lowest decimal number, although added entries may be made at the other subdivisions if it is considered desirable</i>
666.119	GLASS DEFECTS <i>Further particulars may be denoted by colon combination, e.g.</i>		—553 Economic geology. Mineral deposits
.2	Defects in molten glass. Body defects. Material defects		622.36 Various inorganic economic minerals and earths (mainly non-metalliferous)
.22	Defects due to lack of homogeneity. Cord. Striae (vein). Thread. Line. Ream. Knot etc.		661 Chemical products
.23	Defects due to heterogeneity. Defects due to the presence of inclusions	Special auxiliary subdivision for 666.12	
.232	Defects due to gaseous inclusions. Bubbles, blisters etc.	666.12.022.35	Melting accelerators
.233	Defects due to crystalline heterogeneities. Stone. Devitrification. Gall. Scale	Principal divisions (continued)	
.24	Annealing defects	666.122	RAW MATERIALS FOR THE INTRODUCTION OF ACID GLASS COMPONENTS
.25	Colour defects. Overstriking	.2	Silica-containing raw materials. Quartz. Sand
.3	Defects in hollow glassware, pressed glass	.3	Alumina-containing raw materials. Clay. Feldspar
.32	Surface cracking and breaking. Check. Tear. Sticking mark. Cut. Scuffing. Chip. Spontaneous breaking etc.	.4	Raw materials containing boron oxides. Borax
.33	Surface appearance defects. Mould mark. Lap mark. Hogging. Orange peel. Dirt. Grease or oil mark. Faint lettering etc.	.5	Raw materials containing phosphorus oxides
.34	Defects in the shape of an article. Wrong capacity	.9	Other raw materials for the introduction of acid glass components (germanium, titanium, zirconium, tin)
.35	Distribution defects. Wave. Lynch mark. Optical distortion. Lap (fold). Joint line (seam). Overpress etc.	666.123	RAW MATERIALS FOR THE INTRODUCTION OF BASIC GLASS COMPONENTS
.36	Defects resulting from cold or hot working. Burn marks. Dry weld. Belt marks etc.	.2	Alkali-containing raw materials
.37	Defects appearing with time. Weathering. Bloom. Stain. Iridescence etc.	.22	Sodium-containing raw materials. Soda. Sodium sulphate
.38	Moulding defects	.23	Potassium-containing raw materials. Potash
.4	Defects in flat glass	.24	Lithium-containing raw materials
.42	Defects in sheet glass and rolled glass. Drawing lines. Hammer. Split. Surface crack. Edge crack. Wedge. Ghost image. Optical distortion. Impression. Roller mark. Lap mark etc.	.29	Raw materials containing other alkalis (rubidium, caesium)
.43	Grinding and polishing defects. Runner cuts. Short finish. Cloth mark etc.	.3	Alkaline-earth-containing raw materials. Natural rocks as raw materials in general
.44	Defects in figured rolled glass. Pressing defects. Dim letters, image etc.	.32	Calcium-containing raw materials. Lime
.45	Defects in wired glass. Feather. Bubble on the wire. Train of bubbles etc.	.33	Strontium-containing raw materials
.46	Defects in float glass. Dross. Tin streak. Crater drip. Staining. Optical distortion etc.	.34	Barium-containing raw materials. Baryta
.47	Annealing or toughening defects. Bow (warp). Tong marks. Checker pattern etc.	.35	Magnesium-containing raw materials. Dolomite
		.36	Beryllium-containing raw materials
		.4	Raw materials containing heavy metals <i>For colouring agents</i> → 666.124.2 <i>For opacifiers</i> → 666.124.3
		.42	Lead-containing raw materials. Red lead

666.123.43	Zinc-containing raw materials	666.153	SHEET GLASS WITH NON-FLAT SURFACES
666.124	RAW MATERIALS CONTAINING COLOURING, DECOLORIZING, OPALIZING OR REFINING COMPONENTS	.1	Bent sheet glass
.2	Colouring agents (iron, cobalt, nickel, chromium, uranium, molybdenum, tungsten, vanadium, niobium, tantalum, rare earths, copper, silver, gold, sulphur, tellurium) <i>Further particulars may be denoted by colon combination with the subdivisions of 661.8</i> <i>For colouring in glass melting → 666.1.031.14</i>	.2	Convex sheet glass. Watch glasses
.3	Opacifiers. Fluorspar. Cryolite. Phosphorus <i>For phosphorus-containing raw materials → 666.122.5</i> <i>For opal glasses → 666.26</i>	.3	Ribbed glass, drawn
.4	Decolorizers. Glassmaker's soap, e.g. selenium, manganese <i>For decolorizing in glass melting → 666.1.031.14</i>	666.155	LAMINATED GLASS. SAFETY GLASS. BULLET-PROOF LAMINATED GLASS <i>For production of laminated glass → 666.1.054.3</i> <i>For toughened glass → 666.181</i>
.5	Refining agents (arsenic trioxide, antimony trioxide, nitrates, peroxides, chlorates, perchlorates, perborates, ammonium salts) <i>For refining in glass melting → 666.1.031.15</i>	.1	Sheet glass formed from layers of glass fused directly together <i>For cased or flashed glasses → 666.25</i>
.8	Bubble-forming materials for foam glass etc. (e.g. coke, soot, carbonates and oxides of titanium, chromium and manganese)	.5	Sheet glass formed from adherent layers of glass and plastics etc. (laminated glass). Safety glass. Bullet-proof laminated glass. Laminated safety glass. Glass with patterned or coloured interlayer
666.125	BATCH	.52	Glass with a plastics interlayer with photochromic properties
.016.1	Batch composition → 666.11.016.2 Composition of glasses	.7	Laminated safety glass with inserted wires <i>For wired glass → 666.166</i> <i>For glass with embedded electrical conductors → 666.266.32</i>
666.127	GLASS CULLET. GLASS IN BLOCKS. SCRAP. CULLET. BROKEN GLASS. CHIPS	666.156	OTHER KINDS OF SAFETY GLASS
666.128	GLASS BARS, GLASS RODS, FLASHING KNOBS FOR CASING OR FILIGREE WORK. RODS AND BEADS FOR FURTHER WORKING <i>For glass bars and rods → 666.188</i> <i>For glass beads → 666.271</i>	666.157	DOUBLE GLAZING. MULTIPLE GLAZING <i>For production of double or multiple glazing → 666.1.054.4</i>
666.15	GLASS IN SHEETS AND PLATES IN GENERAL. SHEET GLASS. FLAT GLASS IN GENERAL <i>For processes for drawing flat glass → 666.1.036.4</i> <i>For glazing → 686.6</i> <i>For glass as building material → 691.6</i> <i>Further particulars may be denoted by colon combination, e.g.</i> 666.15:621.798 Packaging for sheet glass	.1	With intermediate air layer and sealed edges or with inserted cornices stuck, soldered or welded to the glass
666.151	GLASS IN SHEETS. SHEET GLASS IN GENERAL	.2	With intermediate air layer and edges fused or pressed together
.1	Thin glass (less than 2 mm). Thin glass for fitting into a groove. Glass for photographic plates. Microscope cover glasses	.3	With an insulating filling and with sealed edges or inserted cornices
.2	Constructional glass (2 mm to 4 mm)	.6	With an insulating filling and edges fused or pressed together
.3	Thick glass (greater than 4 mm)	.8	Double or multiple glazing in which not all layers are glass
.6	Bulls-eye. Crown glass	.9	Other multilayer insulating glasses
666.152	GLASS CYLINDERS	666.16	ROLLED FLAT GLASS. PLATE GLASS. ORNAMENTAL GLASS. CAST GLASS. WIRED GLASS
		666.161	ROUGH CAST GLASS
		666.162	PLATE GLASS <i>For rolling glass → 666.1.035.3</i> <i>For metallizing → 666.1.056</i> <i>For mirror making → 686.7</i> <i>The application may be denoted by colon combination, e.g.</i> 666.162:629.113.011.671 Plate glass for motor vehicle windscreens
		:629.12.011.83	Plate glass for portholes
		:645.4	Plate glass for furniture
		:692.824	Plate glass for shop windows
		666.163	FLOAT GLASS

666.164	ORNAMENTAL GLASS (CAST FANCY GLASS). CAST GLASS IN GENERAL. PRESSED AND CUT GLASS. HAMMERED GLASS. FLUTED GLASS. RIBBED GLASS. SANDY GLASS. BEADED GLASS. STRIPED GLASS. DIAMOND-PATTERNED GLASS. PRISMATIC GLASS. CORRUGATED GLASS. CATHEDRAL GLASS. LINED GLASS. RAISED GLASS <i>For casting of glass</i> → 666.1.034 <i>For rolling ornamental and patterned glass</i> → 666.1.035.5 <i>For drawn ribbed glass</i> → 666.153.3 <i>For ornamental glass</i> → 666.264	666.171.3 .4 .8 .9 .92	Normal thick-walled bottles Bottles with thinner walls for single use. Disposable bottles. Lightweight bottles Bottles and flasks of special shape. Drop bottles. Perfume bottles. Ornamental bottles. Spray bottles. Vinegar bottles <i>For pharmaceutical droppers</i> → 615.473.8 <i>For glass apparatus for chemical, medical purposes etc.</i> → 666.172.7 Parts of bottles or of other hollow glassware Bottle necks <i>For ground glass joints</i> → 666.285.6 <i>For closures</i> → 683.53 <i>For rounded screw threads</i> → 621.882.082.6
666.166	ARMOURED GLASS. WIRED GLASS. FUSED GLASS WITH METALLIC INLAY. CHAUVEL GLASS <i>For rolling with simultaneous insertion of wire etc.</i> → 666.1.035.33 <i>For laminated safety glass with inserted wires</i> → 666.155.7 <i>For glass with embedded electrical conductors</i> → 666.266.32	666.172 .3 .4	WHITE OR COLOURED HOLLOW GLASSWARE → 642.72 Tableware. Plates. Dishes. Glasses etc. Jugs. Mugs. Carafes. Bowls Tumblers. Drinking glasses. Trick glasses. Glasses of odd shape Tumblers. Drinking glasses without stems Drinking glasses with handles Stemmed drinking glasses (stemware) Other domestic glassware. Jars. Dishes. Plates. Cups. Vases. Cooking vessels etc. <i>For cooking vessels in home economics</i> → 641.542 <i>For oven glassware</i> → 666.117.3 <i>For pressed domestic glassware</i> → 666.185.1 Jam jars. Wide-necked container glassware <i>For devices for opening tins and jars</i> → 683.564.4 Glass apparatus for chemical, physical and medical purposes etc. Beakers, retorts. Petri dishes. Laboratory glassware. Insulating containers <i>For bottles and flasks of special shape</i> → 666.171.8 <i>Further particulars may be denoted by colon combination, e.g.</i> 666.172.7:533.59 Glass vacuum equipment :542.231.5 Dishes. Beakers
666.17	HOLLOW GLASS IN GENERAL WITHOUT REFERENCE TO THE PRODUCTION PROCESS. BLOWN HOLLOW GLASS IN PARTICULAR <i>For glass blowing</i> → 666.1.032/033 <i>For pressed glass</i> → 666.185 <i>Further particulars may be denoted by colon combination, e.g.</i> 666.17:621.798 Packaging for hollow glass :681.2.089.6 Calibration of hollow glass .172.5:666.241.22 Vases of gold ruby glass <i>Details such as age, origin may be denoted by Tables Ie and Ig common auxiliaries of place and time, e.g.</i> 666.17(32) Ancient Egyptian hollow glass (352) Assyrian hollow glass (37) Ancient Roman hollow glass .17“- ” Antique hollow glass in general <i>For artistic glass and crystal ware</i> → 748	.42 .44 .46 .5 .6 .7	
666.171	BOTTLES <i>For bottles as fluid storage vessels</i> → 621.642.17 <i>For bottles as packaging</i> → 621.798.147 <i>For decanters and similar tableware</i> → 642.727.8 <i>For bottling accessories including closures</i> → 683.5 <i>Application may be denoted by colon combination, e.g.</i> 666.171:615.014.83 Bottles for pharmaceutical preparations. Medicine bottles :663.256.24 Wine bottles :663.4 Beer bottles :663.64 Mineral water bottles :663.83 Liqueur bottles .2 Large bottles. Carboys. Demijohns	666.173 .032/036 666.174 .2	GLASS TUBES <i>For processes for drawing glass tubes etc.</i> → 666.1.036.5 [cancelled] APPARATUS GLASS FOR LAMP WORKING. GLASS APPARATUS AND OTHER GLASS ARTICLES PRODUCED BY LAMP WORKING → 666.1.037.8 Lamp working Articles for chemical, physical and other purposes <i>Further particulars may be denoted by colon combination, e.g.</i> 666.174.2:536.51 Thermometers :542.3 Equipment for measuring mass and volume :542.48 Distillation equipment

666.174.5	Sealing glasses, e.g. for joining glass to metal. Intermediate glasses for fusing different kinds of glass. Solder glass	666.189.1 (cont'd)	→666.27 Glass beads. Small glass articles. Glass ornaments
666.175	BULBS, FITTINGS ETC. FOR LIGHTING EQUIPMENT	.11	Glass artificial eyes
.4	Globes for lamps. Reflectors. Lampshades. Glass lighting fittings →628.955 Materials used for lighting fittings according to optical characteristics	.13	Christmas tree decorations
.5	Bulbs for arc lamps	.15	Animal figurines. Plant figurines. Friggers etc. <i>For artificial flowers of glass</i> → 688.424
.6	Bulbs for incandescent lamps →621.3.032.7 Envelopes. Bulbs — Electrical engineering	.2	Glass drawn into fibres and articles made from them →666.1.036 Processes and apparatus for forming molten glass by drawing etc. 666.1.037.1 Rod drawing process for glass fibre production 677.521 Glass fibres — Textile industry
.7	Bulbs for other electric lamps, e.g. miniature light bulbs	.21	Glass fibres and their products. Textile glass <i>Further particulars may be denoted by colon combination, e.g.</i> 666.189.21:666.22 Optical fibres →679.76 Manufacture of optical fibre cables 681.7.068 Fibre optics devices
.8	X-ray tubes. Discharge tubes. Fluorescent tubes	.211	Discontinuous glass fibres. Spun yarn. Glass wool
.9	Glasses and cylinders for combustion tubes	.2	Tapes
666.176	AMPOULES. TABLET BOTTLES, TEST TUBES ETC. <i>For mechanical production of these</i> → 666.1.037.7 <i>For pharmaceutical ampoules, bottles etc.</i> → 615.014.83 <i>For glass tubes as packaging</i> → 621.798.146	.22	Slivers
666.18	OTHER SIMPLE GLASS PRODUCTS	.24	Staple fibre yarns
666.181	TOUGHENED GLASS	.3	Staple tissue
.2	Thermally toughened glass	.4	Glass staple fibre woven fabric
.21	Glass with uniform toughening	.212	Continuous glass fibres. Textile glass
.24	Glass with differential toughening enabling zones of visibility to be retained	.2	Strand
.3	<i>[cancelled]</i> → 666.155	.3	Roving
.4	Chemically toughened glass	.32	Fabrics
.6	<i>[cancelled]</i> → 666.155.5	.34	Preforms
666.185	PRESSED GLASS →666.1.035.2 Pressing 666.172 White or coloured hollow glassware	.4	Chopped strand
.1	Pressed household glassware	.42	Glass fibre mat
.2	Accumulator glasses. Aquarium glasses <i>For vessels, tanks etc. in electrochemical industry</i> → 621.3.035.1	.5	Continuous yarn
.4	Building, architectural glass	.52	Continuous yarn made up without twisting
.41	Glass-concrete tiles and glasses	.54	Continuous glass filament woven fabrics
.411	Solid tiles and glasses	.213	Hollow glass fibres
.412	Hollow tiles and glasses	.22	Mixed fabrics (continuous glass filament and staple fibre)
.42	Glass bricks	.23	Cord. Tubing. Braid
.421	Solid bricks	.24	Porous glass with interconnected pores
.422	Hollow bricks	.241	Produced by pressing or sintering from granular material. Glass frits
.45	Glass roofing tiles	.242	Produced by dissolving out part of the glass
.6	Glass insulators	.3	Porous glass with separated pores. Foam glass. Inflated glass →666.1.036.6 Forming by inflation by physical or chemical means
666.188	GLASS BARS. GLASS RODS →666.128 Glass bars, glass rods, flashing knobs for casing or filigree work	.31	Produced by injecting gases or vapours
666.189	OTHER GLASS PRODUCTS	.32	Produced by chemical generation of gases and vapours
.1	Glass artificial eyes. Christmas tree decorations. Glass figurines etc.	.33	Produced by physical enlargement of minute gas bubbles
		.4	Powdered glass. Glass granules
		.42	Glass dust. Glass powder <i>For glass as grinding material</i> → 621.921.24 <i>For glass paper as abrasive</i> → 621.921.64

666.189.42 (cont'd)	<i>For glass paper as paper industry product</i> → 676.265.2	666.221.48	Special barium flint
.43	Glass of very fine spangles. Glass tinsel	.6	Special glasses
.45	Glass as binding agent for other materials, e.g. mica	666.223	OPTICAL BLANKS
666.19	VITREOUS SILICA (FUSED SILICA). FUSED BASALT. SLAGS ETC.	.1	Blanks obtained by stamping
666.192	VITREOUS SILICA (FUSED SILICA). SILICA GLASS <i>Further particulars may be denoted by colon combination, e.g.</i> 666.192:666.189.21 Quartz fibres	.2	Blanks in the form of homogeneous flat glass
.2	Opaque vitreous silica. Quartz goods	.5	Pressed lenses
.3	Transparent vitreous silica	.7	Blanks in the form of rod or cane
666.193	FUSED BASALT	.9	Blanks in the form of fibres. Optical fibres
.2	Basalt wool	666.224	GROUND OPTICAL GLASSES → 666.1.053.525 Grinding optical glasses
666.195	FUSED ZIRCONIA	666.225	SPECIALLY SHAPED OPTICAL GLASSES
666.198	MINERAL FIBRES. MINERAL WOOL	666.227	VARIOUS PRODUCTS
666.199	OTHER FUSED MINERALS AND SLAGS	.3	Spectacle glasses
.01	Properties of molten rocks	.4	Normal optical glasses
.03	Processes for preparation of molten rocks	.5	Contact lenses <i>Further particulars may be denoted by the .0 special auxiliaries listed under 666.1, e.g.</i> 666.277.5.037.8 Lamp working of contact lenses
666.21	LEAD GLASS (LEAD CRYSTAL). CRYSTAL GLASS. LIGHT CRYSTAL. HEAVY CRYSTAL <i>Here are classed only reworked glasses Kinds of glassware may be denoted by colon combination, e.g.</i> 666.21:666.172.42 Tumblers of crystal	.7	.053.5 Grinding of contact lenses
666.22	OPTICAL GLASSES <i>For optical phenomena and properties</i> → 535.3/1.5, especially 535.399 <i>For optical apparatus and instruments</i> → 681.7, especially 681.7.03 and 681.7.06 <i>Further particulars may be denoted by colon combination, e.g.</i> 666.22:666.162 Optical glass produced from plate :666.17 Hollow optical glass :666.192 Vitreous silica for optical use :666.24 Coloured optical glass :666.263 Opal optical glass	.8	Optical glasses as parts of measurement and control equipment
666.221	GENERALITIES. KINDS OF OPTICAL GLASS	666.23	STRASS. PASTE. IMITATION PRECIOUS GEMS MADE OF GLASS → 549.091 Precious stones — Mineralogy 679.82 Artificial stones made by chemical synthesis etc.
.3	Optical crown	666.231	STRASS. PASTE
.32	Fluor crown	.1	Colourless strass
.33	Borosilicate crown	.2	Coloured strass stones. Imitation precious stones
.34	High dispersion crown	.3	Paste
.35	Dense phosphate crown	.232/.232.93	[cancelled] → 679.82/.826
.36	Light barium crown	666.233	IMITATION DIAMONDS MADE OF GLASS
.37	Dense barium crown. Extra-dense barium crown	666.24	TRANSPARENT COLOURED GLASSES. GLASSES COLOURED IN THE MASS. STAINED GLASS <i>For eye-protection equipment</i> → 614.893 <i>For materials used for lighting fittings according to optical characteristics</i> → 628.955 <i>For colouring of glass</i> → 666.1.031.14 <i>For colouring agents</i> → 666.124.2 <i>For flashed glasses</i> → 666.25 <i>For protective lenses</i> → 681.7.066.6 <i>For safety glasses, sunglasses</i> → 681.738.1
.38	Special barium crown	666.241	RED GLASSES. RUBY GLASSES. ORANGE GLASSES
.4	Optical flint	.019.243	[cancelled] use 666.241:666.119.25
.42	Extra-light flint	.1	Red glasses in general
.43	Light flint	.2	Ruby glasses
.44	Barium light flint		
.45	Dense flint		
.46	Dense barium flint		
.47	Extra-dense flint		

666.241.22	Gold ruby glasses	666.251 (cont'd)	<i>Further particulars may be denoted by colon combination, e.g.</i>
.23	Copper ruby glasses. Haematinon. Blood-red glasses. Astralite glass		666.251:666.172.4 Double glasses.
.24	Selenium ruby glasses		Glasses with gold interlayer. Mildner glasses
.25	Sulphur ruby glasses		
.3	Orange glasses		
666.242	YELLOW GLASSES. GREEN GLASSES. BLUE GLASSES. AVENTURINES	666.252	SATIN-FINISH GLASS
.3	Yellow glasses (amber glasses). Topaz glasses. Brown glasses. Brown aventurine	666.253	PEARL GLASS. IRIDESCENT GLASS
.4	Green glasses (canary glasses). Green aventurine. Chrome aventurine	666.254	PAINTED GLASS. SILK-FINISHED GLASS
.6	Blue glasses. Daylight glasses		→666.1.058 Painting and other techniques for applying colours to glass
666.245	VIOLET GLASSES. GREY GLASSES. BLACK GLASSES		<i>Further particulars may be denoted by colon combination, e.g.</i>
.2	Violet glasses		666.254:666.172.4 Gold-relief glasses
.4	Grey glasses. Neutral glasses	666.255	HOLLOW GLASSES WITH INTERLAYER, E.G. OF PLASTICS. HOLLOW LAMINATED GLASS
.5	Black glasses		
666.246	GLASSES TRANSMITTING RADIATION	666.26	OPAL GLASSES. LIGHT-SCATTERING GLASSES IN GENERAL. VARIOUS GLASSES
.1	Glasses transmitting ultra-violet radiation		→666.284 Matt glasses
.2	Glasses transmitting only visible light		666.291 Enamel fluxes. Glazing fluxes. Pigments. Opacifiers
.3	Glasses transmitting infra-red radiation		
.5	Glasses transmitting X-radiation		
.6	Glasses with variable transmission		
666.247	GLASSES NOT TRANSMITTING RADIATION	666.263	OPAQUE GLASSES. OPAL GLASS. OPALINE. OPALESCENT GLASS. TRANSLUCENT GLASS. MILK GLASS. MARBLE GLASS
.1	Glasses not transmitting ultra-violet radiation		<i>For such materials used for lighting fittings → 628.955.2</i>
.2	Glasses not transmitting visible light. Solar protective glasses in general		<i>Further particulars may be denoted by colon combination, e.g.</i>
.3	Glasses not transmitting infra-red radiation. Heat- absorbing glasses		666.263:666.251 Flashed opal glass
.5	Glasses not transmitting X-radiation	.1	Opacification by additives. Phosphate glass. Fluorine glass. Tin glass etc. Opaline. Opal lime glass
.6	Glasses absorbing radioactive radiation		<i>For opacifiers → 666.124.3</i>
.9	Glasses absorbing uniformly over the whole spectral range	.2	Opacification by devitrification. Alabaster glass. Florett glass. Reaumur porcelain
666.248	GLASSES TRANSMITTING CERTAIN RADIATION ONE WAY ONLY. ONE-WAY GLASS		→666.1.038.8 Devitrification processes
666.249	SPECIAL COLOURED GLASSES		666.266.6 Crystalline glass products (obtained by controlled methods). Devitrified glasses. Glass ceramics
.1	Glasses with narrow absorption bands, e.g. didymium, neodymium glasses		
666.25	FLASHED GLASSES. CASED GLASSES. GLASSES COLOURED ON THE SURFACE	.4	Coloured opal glass. Hyalith glass. Lithyaline glass
	<i>For materials used for lighting fittings according to optical characteristics → 628.955</i>		<i>Further particulars may be denoted by colon combination with the subdivisions of 666.24</i>
	<i>For flashing, casing → 666.1.032.823</i>	666.264	ORNAMENTED GLASS (REWORKED GLASS). GLASSES DECORATED BY FUSING-ON A DIFFERENT KIND OF GLASS
	<i>For laminated glass → 666.155</i>		<i>For coating glass with metal or other material → 666.1.056</i>
666.251	FLASHED GLASSES. CASED GLASSES. EXTERNAL FLASHED GLASSES. GLASSES WITH COLOURED LAYER BETWEEN TWO LAYERS OF CLEAR GLASS. HOLLOW GLASSES WITH GOLD REFLECTION. DICHROIC GLASS. FROSTED GLASS. DARK GLASS WITH GOLD OR SILVER DECORATION		<i>For ornamental glass (cast fancy glass) → 666.164</i>
	<i>For flashing knobs → 666.128</i>	.1	<i>For artistic glass working → 748</i>
	<i>For glass mosaics → 666.268</i>	.2	Muslin glass. Frosted glass with muslin pattern
		.3	Agate glass. Jasper. Cornelian glass
			Crackled glass. Crocodile glass. Ice glass

666.264.4	Iridescent glass	666.266.6 (cont'd)	.016.2 Composition of glass ceramic products
.5	Encrusted, inlaid glass. Copy of ancient glass		.017 Science of glass ceramics as material
.6	Filigree glass. Diatreta. Spun-over glasses. Snakeskin glass		.05 Subsequent working of glass ceramic products. Glass ceramic finishing
.7	Millefiori glass. Mosaic glass <i>For glass mosaics → 666.268</i>		
.8	Prunt glasses	.61	Applications of glass ceramic products
666.265	LUMINESCENT GLASS. FLUORESCENT GLASS	.62	Glass ceramic products according to composition
.1	Glass fluorescent throughout	.63	Glass ceramic products according to constituent oxides
.2	Glass covered with a fluorescent layer	.64	Glass ceramic products according to technical properties
666.266	VARIOUS GLASSES WITH PARTICULAR CHARACTERISTICS	.68	Other simple glass ceramic products 666.266.68 $\cong$ 666.18
.1	Antique glass	.7	Photochromic glasses <i>Properties etc. may be denoted by the .01 special auxiliaries</i>
.3	Electrically conducting glass. Glass which can be heated electrically	.72	Production of photochromic glasses
.31	By complete or partial coating with a conductor	.74	Use of photochromic glasses
.32	By embedded electrical conductors		
.34	By introduction of conducting materials into the glass or changes in the glass structure → 621.315.5 Conductors, semiconductors of specified materials	666.267	OTHER GLASSES
.4	Glass covered with a metal layer for other purposes, e.g. reflection or reduction of reflection <i>For production of anti-reflection coatings → 666.1.053.65</i> <i>For mirror making → 686.7</i>	666.268	PIECES OF GLASS JOINED BY LEAD OR OTHER SUITABLE MATERIAL. GLASS MOSAICS. GLASSES FOR MOSAIC PRODUCTION <i>For mosaic glass → 666.264.7</i> <i>For equipment for producing mosaics → 681.925</i> <i>For mosaic floorings → 692.533.3</i> <i>For laying of mosaics in building → 693.74</i> <i>For mosaics as architectural feature → 72.04:738.5</i> <i>For stained glass as architectural feature → 72.04:748.5</i>
.5	Photosensitive glass. Glass with images formed inside by the action of radiation and/or chemical or physical treatment <i>For modification of the chemical structure or the composition of the surface layers → 666.1.053.65</i> <i>For glass as support for photographic materials → 771.521</i> <i>Further particulars may be denoted by special auxiliaries, e.g.</i> 666.266.5.01 Properties of photosensitive glass	666.27	GLASS BEADS. SMALL GLASS ARTICLES. GLASS ORNAMENTS → 666.189.1 Glass artificial eyes. Christmas tree decorations. Glass figurines etc.
.52	Production of photosensitive and photoplastic glasses	666.271	SOLID BEADS. VENETIAN BEADS. SMALL GLASS SPHERES. BALLOTINI. GLASS TEARS
.54	Use of photosensitive and photoplastic glasses	666.272	HOLLOW BEADS. BLOWN BEADS. ESSENCE D'ORIENT. BOLOGNESE BOTTLES <i>For production of glass beads → 666.1.037.9.7</i>
.6	Crystalline glass products (obtained by controlled methods). Devitrified glasses. Glass ceramics <i>Product forms may be denoted by the -4 special auxiliaries listed under 62, a selection of which is given under 666, e.g.</i> 666.266.6-41 Glass ceramic flat objects. Plates etc. -46 Glass ceramic hollow objects -462 Glass ceramic tubes etc. <i>Further particulars may be denoted by the .0 special auxiliaries listed under 666.1 and 666.11, e.g.</i> 666.266.6.01 Properties and testing of glass ceramic products	666.273	BEAD MOSAICS
		666.274	OTHER SMALL GLASS OBJECTS
		.1	Glass pens
		.2	Glass plaques. Glass badges. Glass characters, letters. Glass buttons
		.3	Glass weights. Glass coins
		.4	Chandelier hangings
		.5	Glass rings
		666.275	GLASS ORNAMENTS OTHER THAN BEADS

666.28	ENGRAVED GLASSES. CUT GLASSES. MATT GLASSES. GROUND GLASS JOINTS. FINISHED GLASSES IN GENERAL <i>For glass finishing → 666.1.05</i>	666.29.042	Ancillary equipment for melting furnaces 666.29.042 $\cong$ 66.042
		.047	Drying. Drying furnaces 666.29.047 $\cong$ 66.047
666.281	ENGRAVED GLASSES <i>For engraving → 666.1.053.6</i>	.05	Processes and apparatus for application of enamels, glazes etc.
		.051	Processes and equipment for wet application
666.284	MATT GLASSES	.2	Dipping
666.285	GROUND, CUT HOLLOW GLASSWARE → 666.1.053.55 Equipment for grinding and polishing hollow glassware	.3	Pouring-on
		.4	Brushing
		.45	Continuous mechanical brushing
		.5	Spraying
.1	Deep-cut glasses. Mitre-cut glasses. Olive-cut glasses	.6	Edge-lining of pottery
.2	Shallow-cut glasses	.052	Processes and apparatus for application of powder. Sieves
.4	High-cut, relief-cut glasses	.053	Stoving. Cooling <i>For furnaces and accessories → 66.041/.042</i>
.6	Ground glass joints for sealing openings on apparatus and domestic glassware <i>For glass stoppers for laboratory apparatus → 542.25</i> <i>For glass taps for laboratory apparatus → 542.297.35</i> <i>Further particulars may be denoted by colon combination, e.g.</i> 666.285.6:006.015.3 Interchangeability of ground glass joints	.2	Appliances and tools
		.4	Reactions during stoving
		.7	Cooling
		.054	Cleaning-off enamelled articles
		.056	Decoration
		.3	Painting
		.5	Metallizing. Gilding etc. <i>For metallizing of glass → 666.1.056</i>
666.29	ENAMELS. GLAZES. SILICATE COLOURS. ENGOBES	.6	Lustring. Iridizing
		.7	Transfers. Printing. Spraying
Special auxiliary subdivisions for 666.29		Principal divisions (continued)	
666.29.022	Preparation of raw materials	666.291	ENAMEL FLUXES. GLAZING FLUXES. COLOURING AGENTS. OPACIFIERS
.1	Pretreatment. Weighing → 681.26 Weighing machines. Balances	.1	Raw materials 666.291.1 $\cong$ 666.12 <i>Further particulars may be denoted by colon combination with the subdivisions of 546, 552 and 661</i>
.2	Comminution of raw materials	.2	Silicate fluxes in general
.4	Mixing of raw materials 666.29.022.4 $\cong$ 666.3.022.4	.22	Softening behaviour determined by the Seger cone method
.5	Separating, sieving of raw materials	.3	Enamel colours. Colouring agents, stains <i>Only general matters are classed here; for colours for particular enamels see under the enamels</i>
.7	Production, ageing of slips	.5	Ceramic colours
.71	Fineness of grinding. Regulation	.52	Underglaze colours. Colours for the highest temperatures
.73	Ageing of slips	.54	On-glaze colours. Muffle colours
.031	Melting. Cooling the melts <i>Refractory materials for enamels may be classed under 666.76:666.29. Refractory crucibles may be classed under 66.042.21:666.29</i>	.7	Opacifiers and their action <i>For opacification of glass by additives → 666.263.1</i>
.3	Charging the batch	.71	Theory of opacification
.5	Reactions during melting	.72	Opacification by gas bubbles
.6	Discharging	.73	Opacification by clay, feldspar
.8	Cooling	.74	Opacification by fluorine compounds
.041	Melting furnaces for enamels and glazes 666.29.041 $\cong$ 66.041, e.g. 666.29.041.4 Batch-type furnaces	.75	Opacification by phosphates
	.41 Furnaces with open receptacles. Pot furnaces	.76	Opacification by oxides
	.43 Reverberatory furnaces. Open-hearth furnaces	.761	Opacification by tin oxide
	.45 Semi-muffle furnaces. Muffle furnaces. Crucible furnaces	.762	Opacification by zirconium dioxide
	.49 Rotary furnaces	.763	Opacification by titanium dioxide
	.5 Continuous furnaces	.764	Opacification by cerium dioxide
	.8 [cancelled]		