


Product specific requirements: 103. Glassware, Food contact article (glass)

Version: 3.0
Last update: 08.04.2022

Material	Products	Remark
Glass; Porcelain; Stone; Ceramic; Crystalware	plates, cereal bowls, flasks, mugs, jugs, serving plate, dishware, non-insulated glass container; dinner sets: glasses, wine glasses, pitchers; place- & table mats	-



No	Parameter	Method	Reference	Requirement
General requirements				
1	Workmanship	In House	-	<p>Product and its components has to meet the requirements on design and quality according to information offered by producer;</p> <p>No damages on material:</p> <ul style="list-style-type: none"> - Without scratches, dents, cracks, marred or discoloured surface - Without major defects - Without components missing, deformed or fractured - Without hardware missing - Without pits or burrs and weld smoothly filed / grounded - Without loose components or loosened fastening where rigidity is required - With proper and uniform adhesion in wooden parts - Without flash and consistent in size, color and form for plastic parts - With finished edges and seams - Even in color & clarity - Evenly aligned in seams and components
2	Design	In House	With reference to EN 12983-1	<p>The item shall be free from sharp edges, mechanical squeezing and shearing points.</p> <p>Free from burrs, splinters or sharp edge:</p> <ul style="list-style-type: none"> - Without pits or burrs and weld smoothly filed / grounded - Without scratches, dents, cracks, marred or discoloured surface - With finished edges and seams - Evenly aligned in seams and components
3	Labelling for products with food contact	In House	SR 817.023.21/ EU (EC) No. 1935/2004	<p>Products which have complied with food grade safety, but have not yet come into contact with food when sold, shall be properly labelled: A word "for foods!" (for food contact), or a specific indication of their use or the "glass and fork" symbol</p> <p>Required information shall be provided. Exception: not required if the product is obviously intended for food</p> <p>Place: Directly on the product or packaging or label or on a leaflet.</p> 
4	Labelling	In House	SR 817.023.21/ 2001/95/EC	<p>The name or trade name and the address or registered office of the party that is responsible for placing the materials or articles on the market.</p> <p>Place: Directly on the product, or if technically not possible - on a label / leaflet.</p>
5	Labelling	In House	SR 817.023.21/ 2001/95/EC	<p>a) Product identification information b) General safety c) Warning and safety instructions. d) Operating or care instructions e) Special instructions and precautions on how to use the final product if necessary</p> <ul style="list-style-type: none"> - in a clearly visible place; - in easily readable and indelible writing; - in at least one official language (GE/IT/FR). <p>Place: Directly on the product or packaging or label or on a leaflet.</p>
6	Labelling for crystal	In House	EG 69/493/ EWG	<p>Crystal Classes 1, 2, 3 and 4</p> <p>must comply with Norm 69/493/ EWG</p>
7	Net quantity	In House	-	<p>Net quantity of the contents in terms of weight, measure or numerical count (Metric & EU Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer.</p> <p>The labelling must comply and valid with all claims.</p>
8	Instruction manual	In House	SR 817.023.21	<p>Special instructions and precautions on how to use the final product if necessary. Advice on the dangers if necessary.</p> <p>clear, easy to understand and sufficient</p>
9	Claim Verification	In House	-	Must comply with all claims (including accessories, if any).
Chemical requirements				
Glass, Ceramic, Email, Porcelain, Crystal (Food Contact Part)				
10	Glass & Ceramic, Enamel: Lead and Cadmium	EN 1388 ISO/FDIS 7086-1 (24 hours at 22 ° C to 4 % acetic acid)	<p>SR 817.023.21 BedGstV 84/500/EEC (EU) 69/493/ EWG</p> <p>Mandatory confirmation about the compliance for all products</p>	<p>In CH Regulated:</p> <p>for flat articles, not deeper than <25mm: Lead – 0,8 mg/dm² Cadmium – 0,07 mg/dm²;</p> <p>for hollow articles deeper than >25mm; Lead - 4,0 mg/L; Cadmium - 0,3 mg/L;</p> <p>for big products, cookware, backing form>3L: Lead – 1,5 mg/L; Cadmium - 0,1 mg/L</p> <p>Remark: (Limits for main product & lid together)</p>

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11	Glass & Ceramic, Enamel: Lead and Cadmium (additional requirements)	EN 1388 ISO/FDIS 7086-1	Not regulated in CH Annex 4/ BedGgstV 84/500/EEC	- For caps & mugs (recommended): Lead – 0,5 mg/L Cadmium - 0,25 mg/L - For microwave (recommended): Lead – 0,5 mg/L Cadmium - 0,25 mg/L
12	Porcelain: Lead and Cadmium	EN 1388 ISO/FDIS 7086-1	Not regulated in CH Annex 4/ BedGgstV 84/500/EEC	- for flat articles, not deeper than <25mm: Lead - 1,7 mg/dm ² Cadmium - 0,17 mg/dm ² ; - for hollow articles deeper than >25mm: Lead - 5,0 mg/dm ³ ; Cadmium - 0,5 mg/dm ³ ; - for big products >3L: Lead - 2,5 mg/dm ³ ; Cadmium - 0,25 mg/dm ³
Paints and varnishes (if any)				
13	Lead (Pb), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21	n.d. in coating 100 mg/kg
14	Cadmium (Cd), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21	n.d. in coating 100 mg/kg
Product specific requirements				
FUNCTIONAL TESTS				
15	Hygiene	Actual Use	-	All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances.
16	Stability Test (Applicable to Free-standing Items)	In House	-	Stability (Applicable to Free-standing Items) - under 10° inclined surface fully fulfilled with water: Still stable, does not wobble when placed on a flat supporting surface.
17	Snap Fit Lid (If Applicable)	In House	-	Shall fit securely to the body of the sample.
18	Tightness for bottles (If Applicable)	In House	-	Lid shall remain attached when cup is filled with for 3/4 in water 60°C and inverted for 30 Min.
PHYSICAL CHARACTERISTICS				
19	Handle Strength	Actual Use	-	For items with 1 handle: twice heavier as claimed for 5 Min: For items with 2 handles: heavy as claimed for 15 Min a handle. (if not claimed- full capacity x 1,5 times)
20	Rim & Handle Resistance (If Applicable)	EN 12980 as reference	-	The rim and handle shall withstand impact of 0.05J impact energy without visible damage or chipping.
21	Volume or Capacity (L or lq. oz) (Applicable If Claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%). Not for calibration!
22	Overall Weight (kg & lbs) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
23	Overall Dimensions (cm & inches) (Applicable If Claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
PERFORMANCE TESTING				
24	Dishwashing durability (If Applicable)	EN 12875-2 EN 12875-1	-	Classification EN 12875-2 0 or 1(for glasses only) Except silver-plated, aluminium and cast-iron film/coating unless claimed to be dishwasher safe. 125 cycles according to the care instruction if any. Slight discoloration is allowed, no breakage or adverse effects. Load in bottom rack unless claimed top loading only. If failure, must include warning label on package.
25	Hand Wash durability (if dishwasher is not applicable)	In House	-	After cleaning the article in hot, soap 0,5% liquid water (40±5) °C 10 times. followed by rinse in cold water. Slight discoloration, no damage.

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26	Microwave Safe (If Claimed)	In House	-	Fill with food 90% of capacity. Lid not fixed to the container, 800W until food is completely hot. Shall withstand 3 cycles of microwave heating. (Without visible damage or color change. - no visible adverse effect compared with untreated tableware. handles – no discoloration, no damage
27	Stain Resistance	In House	-	No objectionable stain by beverages and cooking mediums after 4 hours placement: Beverages: black tea Cooking medium: oil, ketchup, vinegar (where applicable)
28	Effects Of Heat (if applicable; not for oven safe)	In House	-	No visual change or failure after filling up with water 1 hour at 120 °C
29	Thermal Shock (if applicable; not for oven safe)	EN 1183	-	Shall withstand the thermal shock, Slight crack on surface allowed, but still no function loss: Table top for hot food/ liquids: Δt50, of not less than 90 °C. For Ceramicware & Glassware: Shall withstand the thermal shock from 120 deg C to 20 deg C.
30	Handle Temperature	In House	-	Temperature of handle should not exceed 55 °C after water of 95 °C for 5 Min is poured into the sample at room temperature.
31	Effects Of Cold (if applicable)	In House	-	No failure after filling up with water and frozen at 5 °C for 24 hours. Slight deformation. Or food has some frost.
ADDITIONAL PERFORMANCE TESTING (if applicable)				
32	Thermal Shock	EN 1183	-	Beginning by 110°C for 20 Min; put than in cool water 15- 25°C for 15 sec. Dry and cool down 60 sec. Min 185 °C For Ceramicware & Glassware: Shall withstand the thermal shock from 120 °C to 20 °C
33	Attachments/ Decoration elements	In House	-	Must be firmly attached to the main product
34	Resistance to acetic acid	In House	-	For dishes: acetic acid 4% filled /putted ½ into warm water (20°C) for 24h. Dry with textile paper. Slight color change allowed/ no damage on decorative coating. Shall be acid resistant