

SWARCOFORCE 1-20 C2

Product data sheet

Main characteristics

SWARCOFORCE glass filler beads are high-grade fillers that contribute to improving the physical properties of plastics, resins, paints, varnishes, surface coatings and building materials.

SWARCOFORCE glass filler beads impact the properties of the final product, such as rigidity and pressure resistance, warpage and shrinkage behaviour, flowability, abrasion resistance, tensile strength, impact resistance, colour, scratch resistance, surface gloss, and light diffusion.

Product information (*)

Property	Typical value	Unit
Particle size, D ₅₀	1-20, 7-10	µm
Roundness	> 80	%
Bulk weight	~1,5	g/cm ³
Specific weight	2,5	g/cm ³
Hardness	6-7	acc. to Mohs
	46-58	acc. to Rockwell
	645	acc. to Vickers
Whiteness / L-value	> 65	

Coating

C2 is a silane coating that enables better adhesion of the glass bead, especially to epoxy, melamine, PU, ABS, PBT, etc.

Chemical composition (*)

Property	Typical value	Unit
SiO ₂	65-75	%
Na ₂ O	10-20	%
CaO	5-15	%
MgO	0-10	%
Al ₂ O ₃	0-10	%
K ₂ O	0-3	%
BaO	0-3	%
Fe ₂ O ₃	0-3	%

Heavy metal content (*)

Element	Typical value	Unit	Fluctuation range
Chromium	10,8	ppm	± 2,5
Arsenic	0,8	ppm	± 0,5
Cadmium	< 0,2	ppm	-
Antimony	2,1	ppm	± 1,1
Mercury	< 0,1	ppm	-
Lead	4,6	ppm	± 3,1

(*) This data must not be used as a specification.

Packaging

- In paper bags of 25 kg (with plastic inner bag).
- Packaging is available in 500 – 1.250 kg big bags on customer request.

Storage

- Storage of products in closed, dry rooms.
- Shelf life in original packaging: 6 months.
- Protect from frost, overheating and direct sunlight.
- Ideally, SWARCOFORCE filler glass beads should be brought to the processing hall the day before to ensure optimal adaptation to the ambient temperature and dry processing.

Safety

Read the safety data sheet before using the product.

Important information: For technical production reasons, impurities, additives, and oversized particles of up to 0.1 percent by weight may occur. Dust and undersized particles (unless otherwise specified in the sieve curve) are possible up to 0.5 percent by weight.

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