

SWARCOFORCE Glass Filler Beads

Technical information

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.

Available grain sizes

Particle size	µm	1-20	70-110
		1-50	90-150
		40-70	63-250

Further customized particle-size distributions are possible upon request.

Product information

Property	Typical value	Unit
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	

Chemical composition

SWARCOFORCE glass beads are made of melted soda-lime glass cullet.

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	%

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:
 - 1–20 µm, 1–50 µm, 40–70 µm, 70–110 µm: 6 months
 - 90–150 µm, 63–250 µm: 12 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.

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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