

SWARCOFORCE REFLEX21 Glass Filler Beads

Technical information

Main characteristics

SWARCOFORCE REFLEX glass filler beads are glass beads with a high refractive index. They are used as high-grade filling agents to improve the properties (e.g. physical, optical, mechanical) of plastics, resins, paints, varnishes, coatings and building materials.

The glass filler beads are used especially in the field of paints, varnishes and coatings to influence the optical properties in the entire spectral range of light or solar radiation.

They have an influence on the properties of the end product such as colour, surface gloss, reflection, scratch resistance, abrasion resistance, warping and shrinking behaviour, fluidity, etc.

Available grain sizes

Particle size

Particle size distribution (μm , by volume)

	< 2 μm	d50	d90	d97
1-10	< 18 %	2 - 8	3 - 9	< 10
1-15	< 18 %	3 - 12	4 - 13	< 15
1-25	< 18 %	5 - 15	7 - 20	< 25

Material

SWARCOFORCE REFLEX glass beads are made of barium titanate glass.

Product information

Property

Typical value

Unit

Specific weight
Bulk weight
Refractive index
Roundness
Defective beads

~ 4,6
~ 2,5
~ 2,15
> 80
< 20

g/cm^3
 g/cm^3
/
%
%

Packaging

- In metal buckets of 15 kg.

Storage

- Storage of the products in closed, dry halls.
- Shelf life: 6 months in original packaging.
- Protect against frost, overheating and direct sunlight.
- Ideally, SWARCOFORCE REFLEX glass filler 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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