



Coated variant: GP-SIL

► Product Description

Glass beads GP are mineral, non-metallic blasting media based on soda-lime glass. They are produced with a spherical structure and are suitable for gentle surface treatment.

Typical applications include cleaning, deburring, smoothing, matting, as well as peening of metallic materials, particularly for sensitive or highly alloyed materials.

Due to their defined particle shape, glass beads enable a uniform blasting pattern while maintaining low surface roughness.

► Technical Properties

Property	Typical Value	Unit
Shape	kugelig (Vollglaskugeln)	–
Roundness	> 80	%
Bulk density	ca. 1,5	g/cm ³
Specific density	ca. 2,5	g/cm ³
Hardness	ca. 6–7	Mohs
Hardness	ca. 46–58	HRC
Hardness	ca. 645	HV
Refractory Index	ca. 1,5	–

Note: For optimal processing, the blasting pressure of approx. 4 bar should preferably not be exceeded.

► Chemical Composition (average analysis)

	wt%
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

The glass beads consist predominantly of soda-lime glass. The composition may vary slightly depending on the grain size.

► Grain Sizes and Classification

► Feine Korngrößen:	► Mittlere Korngrößen:	► Grobe Korngrößen:
0 – 50 µm	90 – 150 µm	200 – 300 µm
40 – 70 µm	100 – 200 µm	400 – 600 µm
70 – 110 µm	150 – 250 µm	600 – 800 µm

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Typical Applications

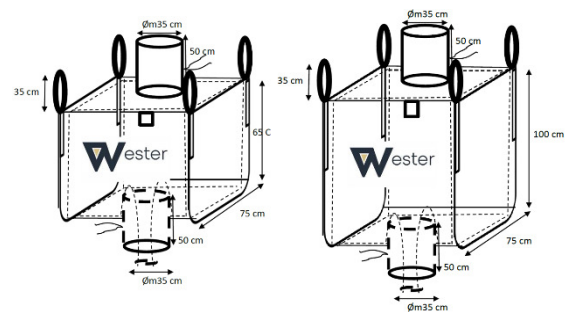
- ▷ Surface treatment
Cleaning, deburring, smoothing, and matting
- ▷ Blasting technology
Compressed air blasting for gentle processing of metallic materials
- ▷ Peening
Introduction of compressive residual stresses to improve component lifetime
- ▷ Special applications
Processing of sensitive surfaces, especially stainless steel and special alloys

Performance Characteristics

- ▷ Gentle surface treatment
- ▷ Uniform blasting pattern due to high roundness
- ▷ Low surface roughness
- ▷ Chemically inert and iron-free
- ▷ Reusable multiple times (depending on process conditions)

Packaging and Delivery

- ▷ 25 kg paper sacks
Shipping up to 50 kg per package
From 75 kg on pallet with shrink hood
- ▷ 0.5 – 1.5 t PP big bags (ISO 21898)
with or without inliner
on pallet with shrink hood.
- ▷ Each batch is labelled with:
product name, batch number, quantity, and production date.



Storage

For consistent product quality, we recommend:

- ▷ storage in dry, enclosed facilities
- ▷ protect from moisture, frost, and direct sunlight
- ▷ shelf life in original packaging:
 - ▷ < 100 µm: approx. 6 months
 - ▷ ≥ 100 µm: approx. 12 months
- ▷ reseal opened containers tightly
- ▷ allow material to adjust to processing temperature before use

Glass Beads GP



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► Note

Small amounts of foreign matter, oversize particles, or dust may be present within tight tolerances due to production processes.

The above information reflects our current experience. It is the responsibility of the user to verify before use whether the product is suitable for the intended purpose, also considering possible application-related influences.

All questions of warranty and liability are governed by the respective contractual agreements unless otherwise stipulated by law. Please refer to the General Terms and Conditions and the Safety Data Sheet (SDS).

► Contact

If you have any questions regarding shelf life and storage, please feel free to contact us – we will be happy to advise you at any time. The selection of the appropriate grain size and specification depends on the application and process parameters; technical support is also available upon request.