

59835 Glass Beads

These solid glass beads are manufactured in a continuous melting process and then provided with a gliding cut polish which does not damage the material and is environment friendly. They are then thermally treated to ensure extraordinary hardness without detrimentally influencing the elasticity.

The development of this type of bead is primarily based **on its use as grinding media in pearl mills** for grinding and dispersing color pigments, paint, ink, agro chemicals, pharmaceuticals, minerals and magnetic coatings.

Further applications:

- As an agent used for treating metal, wood and synthetic surfaces, mechanical plating
- Mixed elements in atomizers
- Reflector beads for road markings - particularly to increase visibility at night by rain
- Filling media in electronics for protection against explosion stirring media in aerosols
- Polishing elements in the optical industry

Chemical Characterization:

SiO ₂	72 %
Na ₂ O	13 %
CaO	9 %
MgO	4 %
Al ₂ O ₃	1 %
K ₂ O; Fe ₂ O ₃	1 %
Compressive strength:	300 - 450

Deviations of +/- 1 % are possible.

PbO free < 0.01 %

Approximate technical and physical values

Hardness according to Mohs:	≥ 6
Elasticity module:	63 GPa
Specific weight:	2.5 kg/dm ³
Bulk weight:	1.5 kg/dm ³
Abrasion after 100 h grinding*:	1.5 – 1.8 %
Size range:	1.25 – 1.55 mm

* Laboratory mill, Moli Nex Pe 075, media water

Subject to the modification of technical details.