

Data sheet

Soda lime glass balls for drinking water well constructions

- Several times higher breaking strength of the glass beads compared to quartz gravel
- Maximum usable pore space thanks to the same grain size and spherical shape
- Maximum slot width of the filter pipes as there are no flat or broken grains
- No need to pump or clean the glass material
- No subsequent settling
- Smooth surface, thus delaying iron and manganese clogging
- Optimum regenerability thanks to large pore spaces and optimum hydraulics
- Thanks to high flowability, the glass material can also be inserted in narrow annular spaces without the risk of bridging
- During camera inspections inside wire-wound filter tubes, foreign material, foreign bodies or clogging in the annular space can be easily detected

Field of application

Support and filter material for drinking water wells

Main components (%)

SiO ₂	Na ₂ O	CaO	Al ₂ O ₃	MgO
65,00 - 75,00	12,00 - 17,00	< 10,00	≤ 5,00	≤ 5,00

Food law assessment / FDA

The tested glass beads are a commodity in the sense of §2 para. 6 no. 1 of the German Food, Commodities and Feed Code (LFGB), the glass beads are therefore subject to food law requirements. The glass beads comply with the requirements of §31 LFGB (DE) and Article 3 of Regulation No. 1935/2004/EC and fulfill the microbiological requirements according to DIN EN ISO 14698-1 and VDI 6022.

Conformity according to BS 6920:2000

The glass beads meet the requirements of NSF/ANSI/CAN 61 and the criteria of the British Standard BS 6920: Part 1: 2000 in accordance with the guideline "Water Regulations Advisory Scheme Tests of Effect on Water Quality".

The limit values are compliant to EU Directive 2011/65/EC (RoHS)

Lead	Cadmium	Chromium VI	Mercury	MgO
< 1000 ppm	< 100 ppm	< 1000 ppm	< 1000 ppm	< 1000 ppm

The entire production process (production including packaging) is carried out without the use of silane, glycol and epoxy (resin).

Characteristic	Value
Density	2,50 kg / dm ³
Deformation temperature	600 °C
Softening temperature	741 °C
Melting temperature	1475 °C
Thermal conductivity	1,135 W(m*K)
Hardness according to Mohs	> 6
Available with diameter min / max (mm)	Surface
0,25 - 16 ,70	polished