

Product information

DIAMOND PEARLS

glass beads

Characteristic and use:

round, lead free glass beads, highly polished and hardened by thermal and chemical treatment.

Diameters:

0,8 - 1,0 mm*	3,5 mm +/- 0,3	8,0 mm +/- 0,4
1,0 - 1,3 mm*	4,0 mm +/- 0,3	9,0 mm +/- 0,4
1,5 mm +/- 0,2	4,5 mm +/- 0,3	10,0 mm +/- 0,5
2,0 mm +/- 0,2	5,0 mm +/- 0,3	
2,5 mm +/- 0,2	6,0 mm +/- 0,3	
3,0 mm +/- 0,2	7,0 mm +/- 0,3	

*) not to be recommended for grinding

Technical properties:

Shape	round
Density (spec.gravity)	2,5 g/cm³ +/- 0,04 g/cm³
Hardness according to Mohs	6
Coefficient of thermal expansion	9,1 +/- 0,4 x 10 ⁻⁶ K ⁻¹ (20-300°C)
Surface	polished and thermally hardened
Modulus of elasticity (Young)	78 - 85 GPa
Settled apparent density	1,485 kg/dm³
Crushing strength acc. to diameter	dia 2,0-6,0 mm = 900 - 3.600 N/mm ²
Purity	food-pure
Hydrol. class	III
Acidic class	III
Alkaline class	A - 1 class
Deformation temperature	575° C +/- 10
Content of lead	without lead

Chemical composition:

	0,8 - 1,3 mm	1,5 - 10 mm
SiO ₂	65 - 67%	61 - 67%
Na ₂ O	14 - 15%	10 - 18%
CaO	---	5 - 10%
Al ₂ O ₃	2,0%	3 - 8%
B ₂ O ₃	0,3 - 0,8%	1 - 5%
MgO	15,5 - 16,5%	0,5 - 3%

Packing:

- in units with 20 resp. 25 kgs each
- every unit in a poly-bag
- 500 kgs in a wooden box
- one wooden-box on an Euro-pallet

Storage:

in dry rooms - max. two wooden boxes stackable

Subject to change - All information is given in good faith but without warranty. We cannot accept responsibility or liability for any damage, resulting from the use of this information