

TECHNICAL GLASS BEADS



SIZE PARAMETERS

\varnothing [mm]	\pm [mm]	Crushing strenght [N]	Beads in 1 kg [pcs / kg]	Contact surface of 1 kg [cm ²]	Beads in 1 l [kg / 1l]
1,5	0,2	600	226354	15992	1,545
2,0	0,2	900	95493	11994	1,550
2,5	0,2	1100	48492	9595	1,560
3,0	0,2	1600	28294	7995	1,570
3,5	0,3	1800	17818	6854	1,565
4,0	0,3	2300	11937	5997	1,565
4,5	0,3	2400	8388	5334	1,555
5,0	0,3	2600	6112	4798	1,555
6,0	0,3	3600	3537	3998	1,540
7,0	0,3	3800	2227	3426	1,520
8,0	0,4	5200	1492	2999	1,505
9,0	0,4	5700	1048	2665	1,510
10,0	0,5	6200	764	2399	1,495

CHEMICAL COMPOSITION IN % (LEADFREE GLASS COMPOSITION)

SiO₂ 61 - 67

Na₂O 10.18

CaO 5.10

Al₂O₃ 3.8

B₂O₃ 1.5

MgO 0.5 - 3

PHYSICAL AND CHEMICAL CHARACTERISTIC

specific weight	2,500 ± 40 kg/m ³
coefficient of thermal extension	(9.2 ± 0.4) · 10 ⁶ K ⁻¹
Littleton softening point	TL = 670 ± 10°C
bulk weight	1,485 kg/m ³
hardness Mohs	6
microhardness Vickers and Rockwell	970 - 1,018 kp/cm ²
elasticity module	7.75 Mpa
Young module of elasticity E	78 - 85 Gpa
hydrolytic class	HGB 3
acidic class according to DIN 12116	III.
alkaline class according to ČSN ISO 695	A - 1 class

Preciosa Traditional Czech Glass

A member of the Preciosa Group

Preciosa Group is a global leader in products *manufactured from crystal*. From the world famous Czech Beads and Crystal Components used in fashion industry, to tailor made Lighting projects for luxury hotels, royal palaces and yachts, the true craftsmanship of crystal production has been present in Bohemia since 16th century.

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