

Size parameters					
Ø [mm]	± [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	0,2	900	95493	11994	1,550
2,5	0,2	1100	48492	9595	1,560
3	0,2	1600	28294	7995	1,570
3,5	0,3	1800	17818	6854	1,565
4	0,3	2300	11937	5997	1,565
4,5	0,3	2400	8388	5334	1,555
5	0,3	2600	6112	4798	1,555
6	0,3	3600	3537	3998	1,540
7	0,3	3800	2227	3426	1,520
8	0,4	5200	1492	2999	1,505
9	0,4	5700	1048	2665	1,510
10	0,5	6200	764	2399	1,495

Chemical composition in %					
SiO ₂	61 - 67	CaO	5 - 10	Na ₂ O	10 - 18
Al ₂ O ₃	3 - 8	MgO	0,5 - 3	B ₂ O ₃	1 - 5
leadfree glass composition					



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 - 1018 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

Areas of application:

These high quality polished glass beads are ideally suited and widely used for grinding of pigments in mills operating both vertically and horizontally.

The specific weight of these technical beads makes them particularly suitable for applications in mills which process low and medium viscosity mill bases.

The technology used in our production ensures almost perfect spherical shape and closely controlled diameters. The beads are treated thermally and chemically to ensure high polish and extreme impact and wear resistance. It follows that balls produced to such a standard cause the minimum of wear to the grinding mill surfaces.

