

Product information

ZC-L Beads

zirconium oxide (ceria-stab.) ZrO₂ 84%

Characteristic and use:

ZC-L-Beads have high specific weight of 6,2 g/cm³, high grinding power, up to 4 times lower wear than zirconium silicate balls and 8 times lower wear than glass beads, long mill run-time, low contamination of the grinding product and so suitable for high quality grinding products like e.g. pigments, dyes. Suitable for all modern mill types horizontal and vertical, without air inclusions, therefore low ball break and no damage in the mill and no contamination of the final product.

They are used for grinding / dispersion of varnish- and colour systems, organic and inorganic pigments, of dyes for colouring textiles and plastics. Further for grinding and processing of electrical ceramic, for processing of glazings, for magnet ceramics, ferrite, for technical/mechanical component parts, for dispersion of fungicides, herbicides and insecticides, for finest grinding in the nanometer range, for grinding of minerals and precious metal.

Diameters:

Sizes			
0,2 - 0,3 mm	0,8 - 1,0 mm	1,4 - 1,6 mm	2,3 - 2,7 mm
0,3 - 0,4 mm	0,9 - 1,1 mm	1,6 - 1,8 mm	2,6 - 3,3 mm
0,4 - 0,5 mm	1,0 - 1,2 mm	1,8 - 2,0 mm	
0,4 - 0,6 mm	1,1 - 1,3 mm	2,0 - 2,2 mm	
0,6 - 0,8 mm	1,2 - 1,4 mm	2,0 - 2,5 mm	

Technical properties:

Shape	round
Color	brown
Density (spec. gravity)	6,2 g/cm ³
Hardness according to Vickers	1100 HV ₁₀
heat extension coefficient	---
Surface	smooth
Modulus of elasticity (Young)	205 Gpa
Settled apparent density	3,65 - 3,93 kg/dm ³
Purity	---
Deformation temperature	---

Chemical composition:

ZrO ₂ - HfO ₂	84%	others	2%
CeO ₂	14%		

Packing:

- in PE-buckets with 20 kg each

Storage:

in dry rooms