

SiLibeads®



Type Z Zirconium Silicate

SiLibeads® Type Z

SiLibeads made of Zirconium Silicate are used as grinding media. The beads show excellent performance features in grinding systems with a medium viscosity range. The smooth surface of the beads minimizes damage to the lining of the mill and grinding discs, resulting in problem free use in most conventional mills.

SiLibeads Type Z are available in the following sizes: 0.2 mm to 2.5 mm and because of the close sieving fraction of 0.2 mm, the desired particle size distribution is guaranteed.

Applications

Colour and Paint Industry

- for grinding and dispersion of coating and paint systems in a medium viscosity range in most water based systems
- dispersion and grinding of pigments to dye textiles, plastics and food
- grinding of inorganic and organic pigments

Pest Control

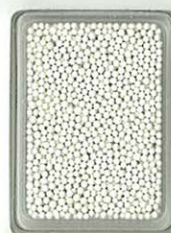
- dispersion of fungicides, herbicides, insecticides

Filling compounds and the Coatings Industry

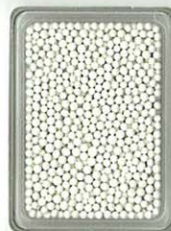
- process of whitener (CaCO_3) for the paper production
- grinding of coatings for video and audio tapes



Art. 9405
Ø 0,4 - 0,6 mm



Art. 9409
Ø 0,8 - 1,0 mm



Art. 9411
Ø 1,0 - 1,2 mm

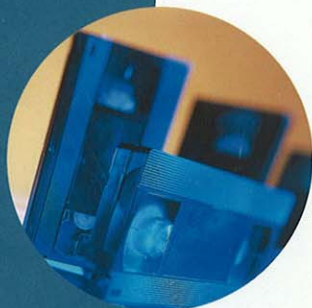


Art. 9415
Ø 1,4 - 1,6 mm



Art. 9419
Ø 1,8 - 2,0 mm

SiLibeads® Technical Ceramic Beads



SiLibeads®
Type Z
 Zirconium Silicate



Art. 9405
 Ø 0,4 - 0,6 mm



Art. 9409
 Ø 0,8 - 1,0 mm



Art. 9411
 Ø 1,0 - 1,2 mm



Art. 9415
 Ø 1,4 - 1,6 mm

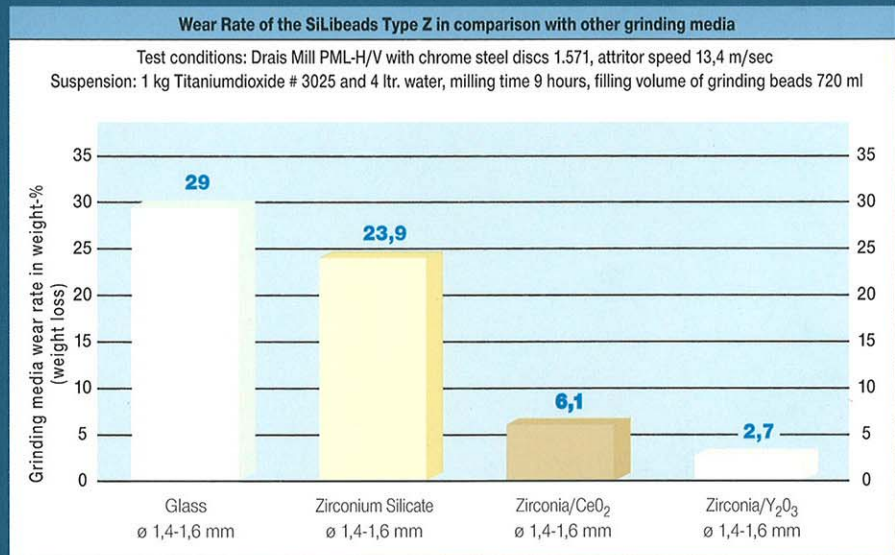


Art. 9419
 Ø 1,8 - 2,0 mm

Chemical Composition weight-%	
ZrO ₂	67,5 %
SiO ₂	25,0 %
Al ₂ O ₃	3,5 %
CaO	2,0 %
MgO	1,9 %
Sonstige	> 0,1 %

Figures are reference values !

Mechanical Properties	
Specific weight	3,8 kg/ltr
Youngs-module	100 GPa
Hardness according to Mohs	7
Microhardness	700 HV



Available Standard Qualities		
Art. No.	Size Range (mm)	Bulk Density (kg / ltr.)
9402	0,125 - 0,250	2,310
9403	0,2 - 0,4	2,297
9405	0,4 - 0,6	2,286
9407	0,6 - 0,8	2,280
9409	0,8 - 1,0	2,275
9411	1,0 - 1,2	2,269
9413	1,2 - 1,4	2,257
9415	1,4 - 1,6	2,225
9417	1,6 - 1,8	2,220
9419	1,8 - 2,0	2,215
9423	2,0 - 2,5	2,197

Sondergrößen auf Anfrage erhältlich.
 Angaben bezüglich Schüttgewicht sind Richtwerte.

Special sizes are available upon request.
 Figures of Bulk Density are reference values.



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