

SiLibeads®

... better grinding

Ceramic Beads



The German spirit of quality since 1854



sintered Zirconia Beads, Yttrium stabilized

Recommendations for grinding applications

- for paint, coating and dye industry
- for grinding of minerals, such as titanium dioxide, calcium carbonate and the finest particle sizes
- for high quality ceramic products, batteries



Ø 0.2 - 0.3 mm

Type ZY-E

sintered Zirconia Beads, Yttrium stabilized

Recommendations for grinding applications

- for paint, coating and dye industry
- for grinding of minerals, such as titanium dioxide, calcium carbonate and the finest particle sizes
- for high quality ceramic products



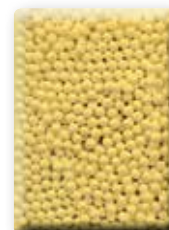
Ø 0.6 - 0.8 mm

Type ZY-S

sintered Zirconia Beads, Cerium stabilized

Recommendations for grinding applications

- for paint, coating and dye industry
- organic and inorganic pigments
- for grinding of agro chemicals



Ø 1.0 - 1.2 mm

Type ZC

sintered Zirconia-Alumina Beads, Cerium stabilized

Recommendations for grinding applications

- for paint, coating and dye industry
- organic and inorganic pigments
- for grinding of minerals



Ø 1.4 - 1.6 mm

Type ZA

sintered Zirconium Silicate Beads

Recommendations for grinding applications

- for paint, coating and dye industry
- organic and inorganic pigments
- for grinding of agro chemicals



Ø 1.8 - 2.0 mm

Type ZS

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Type ZY-E

sintered Zirconia Beads, Yttrium stabilized



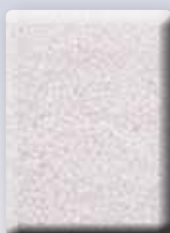
Ø 0.2 – 0.3 mm

Mechanical Properties	
Specific weight	6.05 kg / l
Youngs-module	215 GPa
Microhardness HV 10	1400
Material	
Yttrium stabilized Zirconium Oxide	

Available Standard Sizes					
Art. No	Size Range (mm)	Bulk Density (kg / l)	Art. No	Size Range (mm)	Bulk Density (kg / l)
990095	0.08 – 0.13	3.62	9905	0.40 – 0.60	3.64
99015	0.10 – 0.20	3.62	9907	0.60 – 0.80	3.66
99025	0.20 – 0.30	3.62	9909	0.80 – 1.00	3.66
9903	0.20 – 0.40	3.63	9911	1.00 – 1.20	3.67
99035	0.30 – 0.40	3.63	9913	1.20 – 1.40	3.68
99045	0.40 – 0.50	3.64	9915	1.40 – 1.60	3.69

Type ZY-S

sintered Zirconia Beads, Yttrium stabilized



Ø 0.6 – 0.8 mm

Mechanical Properties	
Specific weight	6.00 kg / l
Youngs-module	210 GPa
Microhardness HV 10	1150
Material	
Yttrium stabilized Zirconium Oxide	

Available Standard Sizes					
Art. No	Size Range (mm)	Bulk Density (kg / l)	Art. No	Size Range (mm)	Bulk Density (kg / l)
96015	0.10 – 0.20	3.62	9611	1.00 – 1.20	3.67
96025	0.20 – 0.30	3.62	9613	1.20 – 1.40	3.68
9603	0.20 – 0.40	3.63	9615	1.40 – 1.60	3.69
96035	0.30 – 0.40	3.63	9617	1.60 – 1.80	3.71
9605	0.40 – 0.60	3.64	9619	1.80 – 2.00	3.73
9607	0.60 – 0.80	3.66	9623	2.00 – 2.50	3.75
9609	0.80 – 1.00	3.66	9629	2.60 – 3.30	3.76

Type ZC

sintered Zirconia Beads, Cerium stabilized



Ø 1.0 – 1.2 mm

Mechanical Properties	
Specific weight	6.13 kg / l
Youngs-module	205 GPa
Microhardness HV 10	1150
Material	
Cerium stabilized Zirconium Oxide	

Available Standard Sizes					
Art. No	Size Range (mm)	Bulk Density (kg / l)	Art. No	Size Range (mm)	Bulk Density (kg / l)
98035	0.30 – 0.40	3.66	9812	1.10 – 1.30	3.79
98045	0.40 – 0.50	3.67	9813	1.20 – 1.40	3.82
9805	0.40 – 0.60	3.68	9815	1.40 – 1.60	3.84
9807	0.60 – 0.80	3.69	9817	1.60 – 1.80	3.80
9809	0.80 – 1.00	3.71	9819	1.80 – 2.00	3.80
9810	0.90 – 1.10	3.75	9821	2.00 – 2.20	3.81
9811	1.00 – 1.20	3.75	98235	2.20 – 2.50	3.83

Type ZA

sintered Zirconia-Alumina Beads, Cerium stabilized



1.4 - 1.6 mm

Mechanical Properties	
Specific weight	5.30 kg / l
Youngs-module	175 GPa
Microhardness HV 10	1050
Material	
Cerium stabilized Zirconium Oxide Aluminium Oxide	

Available Standard Sizes					
Art. No	Size Range (mm)	Bulk Density (kg / l)	Art. No	Size Range (mm)	Bulk Density (kg / l)
9105-70	0.40 – 0.60	3.27	9117-70	1.60 – 1.80	3.30
9107-70	0.60 – 0.80	3.28	9119-70	1.80 – 2.00	3.31
9109-70	0.80 – 1.00	3.28	9121-70	2.00 – 2.20	3.31
9111-70	1.00 – 1.20	3.29	91235-70	2.20 – 2.50	3.33
9113-70	1.20 – 1.40	3.29	91265-70	2.50 – 2.80	3.34
9115-70	1.40 – 1.60	3.30	9130-70	2.80 – 3.20	3.35

Type ZS

sintered Zirconium Silicate Beads



Ø 1.8 – 2.0 mm

Mechanical Properties	
Specific weight	4.10 kg / l
Youngs-module	100 GPa
Microhardness HV 10	1000
Material	
Zirconium Silicate	

Available Standard Sizes					
Art. No	Size Range (mm)	Bulk Density (kg / l)	Art. No	Size Range (mm)	Bulk Density (kg / l)
9305	0.40 – 0.60	2.39	9319	1.80 – 2.00	2.45
9307	0.60 – 0.80	2.40	9321	2.00 – 2.20	2.46
9309	0.80 – 1.00	2.41	9323	2.20 – 2.50	2.46
9311	1.00 – 1.20	2.42	9327	2.50 – 2.80	2.48
9313	1.20 – 1.40	2.43	9330	2.80 – 3.20	2.48
9315	1.40 – 1.60	2.43	9335	3.00 – 4.00	2.49
9317	1.60 – 1.80	2.44			

