

Product Data Sheet



The German
spirit of quality
since 1854



SiLibeads Ceramic beads Type ZSA 3.7

First created on: 2015-06-29

Updated on: 2021-01-19

Next inspection on: 2021-12-31

Printed on: 2021-01-19

Version: V17/2021

Product: SiLibeads Ceramic beads Type ZSA 3.7

Material: Ceramic beads made of Zircon-Silica-Aluminium-Oxide

Application: Mining Industry:
grinding of minerals and precious metals

Technical Data:

Specific Weight 3.7 kg/l
Bulk density see table Standard Sizes
Microhardness 1250 HV₁₀
Colour white

Standard Sizes (special sizes are available upon request, maximum size 11-15 mm):

Article	Diameter	Bulk density
9105	0.4 – 0.6 mm	2,19 kg/dm ³
9107	0.6 – 0.8 mm	2,20 kg/dm ³
9109	0.8 – 1.0 mm	2,21 kg/dm ³
9111	1.0 – 1.2 mm	2,22 kg/dm ³
9113	1.2 – 1,4 mm	2,23 kg/dm ³
9115	1.4 – 1.6 mm	2,23 kg/dm ³
9117	1.6 – 1.8 mm	2,24 kg/dm ³
91175	1.5 – 2.0 mm	2,24 kg/dm ³
9119	1.8 – 2.0 mm	2,24 kg/dm ³
9121	2.0 – 2.2 mm	2,25 kg/dm ³
91225	2.0 – 2.5 mm	2,26 kg/dm ³
9123	2.2 – 2.5 mm	2,26 kg/dm ³
9125	2.0 – 3.0 mm	2,27 kg/dm ³
9127	2.5 – 2.8 mm	2,27 kg/dm ³
9130	2.8 – 3.2 mm	2,28 kg/dm ³
9135	3.0 – 4.0 mm	2,30 kg/dm ³
9145	3.8 – 5.2 mm	2,32 kg/dm ³
9150	4.0 – 6.0 mm	2,32 kg/dm ³

Figures of bulk density are reference values

Chemical composition; Beads made of Zircon-Silica-Aluminium-Oxide:

Main components	Method	Weight (reference values)	CAS-No.	EINECS
Aluminium oxide Al ₂ O ₃	DIN 51001	> 66 %	1344-28-1	215-691-6
Silicon dioxide SiO ₂ ⁽¹⁾⁽²⁾	DIN 51001	< 14 %	7631-86-9	231-545-4
Zirconium dioxide ZrO ₂ ⁽¹⁾ + Hafnium dioxide HfO ₂ ⁽¹⁾⁽³⁾	DIN 51001	< 16 %	1314-23-4 12055-23-1	215-227-2 235-013-2
others		< 4 %		

⁽¹⁾ Traces of naturally occurring uranium (U) and thorium (Th) are present in concentrations of < 0.05 %.

⁽²⁾ Silica glass, free from crystalline forms of silica

⁽³⁾ natural origin (residue from processing of raw material Zircon sand)

Product Data Sheet



*The German
spirit of quality
since 1854*



SiLibeads Ceramic beads Type ZSA 3.7

First created on: 2015-06-29 Updated on: 2021-01-19
Next inspection on: 2021-12-31 Printed on: 2021-01-19

Version: V17/2021

Additional Information:

Storage indication: Store in a dry manner in closed (original) container by room temperature.
Disposal: Please consult national laws and local regulations in force for disposal or landfill.
Safety advice: High risk of slipping due to spillage of product

Manufacturer/Supplier: Sigmund Lindner GmbH
Oberwarmensteinacher Str. 38
95485 Warmensteinach / GERMANY
Phone: +49-9277-9940
Fax: +49-9277-99499
Web: www.sili.eu
E-Mail: sili@sili.eu

All data are reference values – subject to change without prior notice