

Product Data Sheet



The German spirit of quality since 1854



SiLibeads Type A 99.3

First created on: 2021-01-20 Updated on: 2021-01-21
Next inspection on: 2021-12-31 Printed on: 2021-01-21

Version: V1/2021

Product: SiLibeads Type A 99.3

Material: Ceramic beads made of high purity Aluminium oxide

Properties: High hardness

Technical Data: High purity $\geq 99.3\%$ Al_2O_3

Specific Weight $\geq 3.8\text{ kg/dm}^3$

Bulk Density $\geq 2.3\text{ kg/dm}^3$

Roundness ≥ 0.93 (ratio width/length (x_{\min}/x_{\max}))

Colour white

- Advantages:**
- High purity raw materials, therefore no contamination of the grinding product
 - Useable for high-grade grinding of pigments, dyes, inks, especially for very hard materials
 - Useable in wet grinding processes
 - Useable for all modern mills and high energy mills.
 - No radioactivity in comparison to ceramic beads made of zirconium silicate and therefore no contamination of the grinding product and no costly disposal of the beads.
 - Environmentally friendly

Standard Sizes:

Article	Diameter	Bulk density
92025-993	0.20 – 0.30 mm	2.3 kg/dm ³
92035-993	0.30 – 0.40 mm	2.3 kg/dm ³
9205-993	0.40 – 0.60 mm	2.3 kg/dm ³
9210-993	0.90 – 1.10 mm	2.3 kg/dm ³
9213-993	1.20 – 1.40 mm	2.3 kg/dm ³
9215-993	1.40 – 1.60 mm	2.3 kg/dm ³
9217-993	1.60 – 1.80 mm	2.3 kg/dm ³

Chemical Analysis; Beads made of sintered Aluminium Oxide:

Name	Method	Weight (reference values)	CAS-No.	EINECS
Aluminium Oxide Al_2O_3	DIN 51001	$\geq 99.3\%$	1344-28-1	215-691-6
Calcium Ca	DIN 11885	$\leq 5500\text{ ppm}$	7440-70-2	231-179-5
Magnesium Mg	DIN 11885	$\leq 400\text{ ppm}$	7439-95-4	231-104-6
Silicon Si	DIN 11885	$\leq 250\text{ ppm}$	7440-21-3	231-130-8
others	DIN 11885	$\leq 850\text{ ppm}$		

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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.
Product information: Safety Data Sheet SiLibeads Type A 99.3

Manufacturer/Supplier:

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