

Product Data Sheet

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Updated on: 11.10.2010

Next inspection on: 11.10.2011

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Produkt	SiLibeads Ceramic beads Type Z
Material	Ceramic beads made of Zirconium Silicate
Application	
<u>Colour and Paint Industry:</u>	- for grinding and dispersion of coating and paint systems in the middle viscosity range in most of water based systems - dispersion and grinding of pigments to dye textiles, plastics and food - grinding of inorganic and organic pigments
<u>Plant Protection:</u>	- dispersion of fungicides, herbicides, insecticides.
<u>Filler material- and the Coating Industry</u>	- process of whitener (CaCO ₃) for the paper production - grinding of coatings for video and audio tapes
<u>Surface Processing:</u>	- micro beads for shot blasting/shot peening of components made of metal, glass and rubber
Technical Data	
Specific Weight	3,8 kg/dm ³
Bulk density	see table Standard Sizes
Youngs-Module	100 GPa
Microhardness	700 HV

all datas are reference values

Standard Sizes (special diameters by request)		
Article	Diameter	Bulk density
94002	0 – 63 µm	2,220 kg/dm ³
94003	63 – 125 µm	2,119 kg/dm ³
94005	125 – 250 µm	2,221 kg/dm ³
94007	250 – 425 µm	2,271 kg/dm ³
94008	425 – 600 µm	2,298 kg/dm ³
9403	0,20 – 0,40 mm	2,297 kg/dm ³
9405	0,40 – 0,60 mm	2,286 kg/dm ³
9407	0,60 – 0,80 mm	2,280 kg/dm ³
9409	0,80 – 1,00 mm	2,275 kg/dm ³
9411	1,00 – 1,20 mm	2,269 kg/dm ³
9413	1,20 – 1,40 mm	2,257 kg/dm ³

Chemical Analysis; Beads made of Zirconium Silicate				
Name	Methode	Weight	CAS-No.	EINECS
		reference value in Weight-%		
Zirconium dioxide ZrO ₂ + Hafnium dioxide HfO ₂	DIN 51001	67,50 %	1314-23-4 12055-23-1	215-227-2 235-013-2
Silicon dioxide SiO ₂ ⁽¹⁾	DIN 51001	27,50 %	7631-86-9	231-545-4
further ⁽²⁾		5,00 %		

⁽¹⁾ Silica glass, free from crystalline forms of silica⁽²⁾ Further: Traces of radioactive components with natural origin (U + Th < 0,05 %)

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Additional Information

Storage indication	Store in a dry manner in closed (original) container by room temperature. We recommend storage life of maximum 3 years.
Disposal	There is no type of waste that occurs due to the product that requires special supervision according to the German "Closed Substance Waste Management Act" or the 91/689/EWG and 2006/12/EG guidelines.
Safety advice	High risk of slipping due to spillage of product
Product information	Sample card ... glass beads for technical applications, Safety Data Sheet SiLibeads Type Z; Test Reports
Manufacturer/Supplier	Sigmund Lindner GmbH; Oberwarmensteinacher Straße 38; D-95485 Warmensteinach Phone: 09277-9940 Fax: 09277-99499 Web: www.sili.eu E-Mail: sili@sigmund-lindner.com