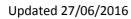
Product Data Sheet Type SZS





Product name	Sintered Ceramic Beads, Zirconium Silicate		
Product type	SZS		
Features	- Medium density media particularly suitable for use in large-volume agitated bead mills		
	- High breakage resistance		
	- Advantageous price		
Main applications	SZS beads can be used in milling and dispersion of following materials:		
	- Coating, paints, printing and inks		
	- Pigments and dyes		
	- Agrochemicals e.g. fungicides, insecticides		
	- Minerals e.g. TiO₂ ,GCC , Zircon and Kaolin		
	- Gold, silver, platinum, lead, copper and zinc sulfide		
Technical data*			
Specific density	$4.0 \pm 0.05 \text{ g/cm}^3$		
Bulk density	2.4 kg/l		
Hardness	1020 HV		
Breaking load	800 N		
Color	White		

^{*}typical values

Standard sizes (mm)*		
0.4 - 0.6	1.4 - 1.7	2.5 – 3.5
0.6 – 0.8	1.6 - 1.8	3.0 – 4.0
0.8 - 1.0	1.8 – 2.0	4.0 – 5.0
1.0 – 1.2	2.0 – 2.2	5.0 – 6.0
1.2 – 1.4	2.0 – 2.5	10.0 - 13.0

^{*}other sizes can be customized

Manufacturer /	Chemco Advance Material (Suzhou) Co., Ltd	
supplier	Manufacturing plant: Guangfu Industrial park, Suzhou	
	215159, CHINA	
	Tel: +86 21 62082768	
	Fax:+86 21 54995682	
	Email: info@chemcobeads.com	
	Website: www.chemcobeads.com	

Material Safety Data Type SZS



Updated 27/12/2022

Composition	Weight*	CAS No.	
Zirconium dioxide ZrO ₂ +	52 %	1314-23-4	
Hafnium dioxide HfO2		12055-23-1	
Silicon oxide SiO ₂	35 %	7631-86-9	
Aluminum oxide Al ₂ O ₃	8%	1344-28-1	
Others	5 %		
*typical values			
Hazards identification	Health rating: 0 – None		
	Flammability rating: 0 – None		
	Reactivity rating: 0 – None		
	Contact rating: 0 – Slight		
	Possible irritation through abrasive friction.		
	Risk of slipping if the product (beads) is spread out on the floor.		
	As such, the product should not cause an inhalation problem but its		
	utilization can create dust.		
First aid measures	Eyes: may be abrasive through friction, treat as particle in eye.		
Fire fighting measures	This product is not combustible or explosive. It is compatible with all standard		
	fire-fighting methods.		
Accidental release measures	Isolate the area and sweep the floor in order to collect the beads to avoid the		
	slipping by rolling.		
	Wear eye protectors and dust mask.		
Handling and storage	In case of operations, which generate dust, wear dust mask. Wear eye		
	protectors.		
	Heavy material, respect the security rules in case of stocking. Use safety shoes		
	for handling.		
Physical / Chemical Properties	Appearance and odor: odorless white beads		
	Solubility in water: insoluble		
	Volatiles by volume at 21°C: 0%		
	Boiling point: NAIF		
	Melting point: over 1600℃		
Disposal consideration	Whatever cannot be saved for reco	very or recycling should be managed in	
	an appropriate waste disposal faci	lity. Dispose of packaging and unused	
	contents in accordance with governmental and local requirements.		
Transport information	Not regulated		
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