## Product Data Sheet Type SZS



Updated 04/03/2022

Product name	Ceramic Beads, Zirconium Silicate, Sintered
Product type	SZS
Features	- Produced from world-class premium zircon (ZrSiO4) mineral in a special high temperature
	sintering process
	- Medium density media particularly suitable for use in large-volume agitated bead mills
	- Fully dense, perfect sphericity and extremely smooth beads surface
	- No porous and irregular shape problems
	- Outstanding breakage resistance
	- Optimum performance-price ratio
	- This is the bead recommended to efficiently fine-grind zircon
Main applications	SZS beads can be used in milling and dispersion of following materials, just name a few: - Coating, paints, printing and inks
	- Food (Complying with the regulations of European Food 1935/2004/EC and FDA)
	- Pigments and dyes
	- Agrochemicals e.g. fungicides, insecticides
	- Minerals e.g. $TiO_2$ ,GCC , Zircon and Kaolin
	- Gold, silver, platinum, lead, copper and zinc sulfide
Technical data*	
Specific density	$4.0 \pm 0.1 \text{ g/cm}^3$
Bulk density	2.4 kg/l
Hardness	1127 (HV1)
Mohs' hardness	7.2
Breaking load	800 N
Color	White (glossy sheen)

\*typical values

Standard sizes (Ø,mm) *				
0.4 - 0.6	0.6 - 0.8	0.8 - 1.0		
1.0 - 1.2	1.2 - 1.4	1.4 - 1.7		
1.6 - 1.8	1.8 - 2.0	2.0 - 2.2		
2.0 - 2.5	2.5 – 2.8	2.8 - 3.2		
3.0 - 4.0	4.0 - 5.0	5.0 - 6.0		
6.0 - 7.0	7.0 - 8.0	8.0 - 10.0		
10.0 - 12.0	12.0- 14.0			

\*other sizes can be customized

Manufacturer /	Chemco Advance Material (Suzhou) Co., Ltd	
supplier	Guangfu Industrial Park, Fengshan Road, Suzhou, 215159, CHINA	
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## Safety Data Sheet Type SZS

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Composition	Weight*	CAS No.
Zirconium dioxide ZrO <sub>2</sub> +	52 %	1314-23-4
Hafnium dioxide HfO <sub>2</sub>		12055-23-1
Silicon oxide SiO <sub>2</sub>	35 %	7631-86-9
Aluminum oxide Al <sub>2</sub> O <sub>3</sub>	10 %	1344-28-1
Others	< 5 %	

\*typical values

Llaganda identification		
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	Isolate the area and sweep the floor in order to collect the beads to avoid the	
measures	slipping by rolling.	
	Wear eye protectors and dust mask.	
Handling and storage	In case of operations, which generate dust, wear dust mask. Wear eye protector	
	Heavy material, respect the security rules in case of stocking. Use safety shoes for	
	handling.	
Physical / Chemical	Appearance and odor: odorless white beads	
Properties	Solubility in water: insoluble	
	Volatiles by volume at 21°C: 0%	
	Boiling point: NAIF	
	Melting point: over 1600°C	
Disposal consideration	Whatever cannot be saved for recovery or recycling should be managed in a	
	appropriate waste disposal facility. Dispose of packaging and unused contents	
	in accordance with governmental and local requirements.	
Transport information	Not regulated	
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