

Product name	Zirconia Toughened Alumina Beads & Balls, Sintered
Product type	ZTA
Features	<ul style="list-style-type: none"> - Proven to be the best grinding media in terms of performance-price ratio used in Horizontal & Vertical mills for fine-grinding metallic ores concentrate & tailings - Superior performance-price ratio to similar density media like high alumina (92% Al₂O₃) beads - Its wear resistance is 2 - 10 times better than high alumina and high chrome steel media - Available in big size balls up to $\Phi 70$ mm, ideal for various ball mills for grinding ceramic body, glaze and minerals. - This is the bead also recommended to fine-grind zircon
Main applications	<p>ZTA beads are especially suitable for milling and dispersion of following materials:</p> <ul style="list-style-type: none"> - Gold, silver, platinum, lead, copper and zinc sulfide - Ceramic body, glaze and minerals (like zircon etc.) - Coatings (paints, inks)
Technical data*	
Specific density	3.7 ± 0.05 g/cm ³
Bulk density	2.3 kg/l
Hardness	1250 HV
Color	White

*typical values

Standard sizes (mm)*			
1.0 – 1.2	3.0 – 3.5	12 – 14	30
1.2 – 1.5	4.5 – 5.5	14 – 16	40
1.5 – 2.0	5.5 – 6.5	17 – 19	50
2.0 – 2.5	7.5 – 8.5	19 – 21	60
2.5 – 3.0	9 – 11	23 – 25	70

*other sizes can be customized

Manufacturer / supplier	<p>Chemco Advance Material (Suzhou) Co., Ltd Manufacturing plant: Guangfu Industrial park, Suzhou 215159, CHINA Phone: +86 186 1680 9761 +86 130 6175 4836 Email: info@chemcobeads.com Website: www.chemcobeads.com</p>
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Composition	Weight*	CAS No.
Zirconium dioxide ZrO ₂ + Hafnium dioxide HfO ₂	2 %	1314-23-4 12055-23-1
Silicon oxide SiO ₂	4 %	7631-86-9
Aluminum oxide Al ₂ O ₃	90 %	1344-28-1
Others	4 %	
*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 °C	
Disposal consideration	Whatever cannot be saved for recovery or recycling should be managed in an 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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