

Product name	Sintered Ceramic Beads, Zirconia Alumina Composite	
Product type	ZAL-32 / ZAL-27	
Features	<ul style="list-style-type: none"> - Light density media with unique formulation, patented. - Superior price-performance ratio to other low-medium density medias. - Substitutes glass beads. - Increase milling efficiency due to higher density of the medias. - Reduce the mill wear. - Successfully being used in large stirred mills (IsaMill™ and Metso SMD) for mining industry. 	
Main applications	ZAL-32 / ZAL-27 beads can be used in milling and dispersion of following materials: <ul style="list-style-type: none"> - Coatings (paints, inks) - Pigments and dyes - Mineral fillers e.g. TiO₂, GCC, Zircon and Kaolin - Gold, silver, platinum, lead, copper and zinc sulfide 	
Technical data*	ZAL-32	ZAL-27
Specific density	3.2 ± 0.05 g/cm ³	2.7 ± 0.05 g/cm ³
Bulk density	2.2 kg/l	1.7 kg/l
Hardness	872 HV	761 HV
Color	White	White

*typical values

Standard sizes (mm)*		
0.4 – 0.8	1.5 – 2.0	4.0 – 4.5
0.8 – 1.2	2.0 – 2.5	4.5 – 5.5
1.2 – 1.4	2.5 – 3.0	5.0 – 6.0
1.4 – 1.7	3.0 – 4.0	6.0 – 7.0

*other sizes can be customized

Manufacturer/ supplier	Chemco Advance Material (Suzhou) Co., Ltd Manufacturing plant: Guangfu Industrial park, Suzhou 215159, CHINA Tel: +86 21 62082768 Fax: +86 21 54995682 Email: info@chemcobeads.com Website: www.chemcobeads.com
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Composition	Weight*	CAS No.
Zirconium dioxide ZrO ₂ + Hafnium dioxide HfO ₂	2 – 20 %	1314-23-4 12055-23-1
Silicon oxide SiO ₂	35 %	7631-86-9
Aluminum oxide Al ₂ O ₃	40 – 60 %	1344-28-1
Others	3 - 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°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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