



<b>Product name</b>	Ceramic Beads, Zirconia Alumina Composite, Sintered	
<b>Product type</b>	ZAL-32 / ZAL-27	
<b>Features</b>	<ul style="list-style-type: none"> <li>- Light density medias with unique formulations, patented</li> <li>- Superior price-performance ratio to other low-medium density grinding medias</li> <li>- Substitute glass beads very well by reducing media &amp; mill wear and increasing grinding efficiency</li> </ul>	
<b>Main applications</b>	<p>ZAL-32 / ZAL-27 beads can be used in milling and dispersion of following materials, just name a few:</p> <ul style="list-style-type: none"> <li>- Coatings (paints, inks)</li> <li>- Pigments and dyes</li> <li>- Mineral fillers e.g. TiO<sub>2</sub> , GCC , Zircon and Kaolin</li> <li>- Gold, silver, platinum, lead, copper and zinc sulfide</li> </ul>	
<b>Technical data*</b>	<b>ZAL-32</b>	<b>ZAL-27</b>
<b>Specific density</b>	3.2 ± 0.05 g/cm <sup>3</sup>	2.7 ± 0.05 g/cm <sup>3</sup>
<b>Bulk density</b>	2.2 kg/l	1.7 kg/l
<b>Hardness</b>	854 (HV10)	793 (HV10)
<b>Mohs' Hardness</b>	8	8
<b>Color</b>	White (glossy sheen)	White (glossy sheen)

\*typical values

Standard sizes (Ø,mm) *		
0.4 – 0.8	0.8 – 1.2	1.2 – 1.4
1.4 – 1.7	1.8 – 2.2	2.0 – 2.5
2.5 – 3.0	3.0 – 4.0	4.0 – 5.0
5.0 – 6.0		

\*other sizes can be customized

<b>Manufacturer/ supplier</b>	<p>Chemco Advance Material (Suzhou) Co., Ltd                  Guangfu Industrial Park, Fengshan Road, Suzhou, 215159, CHINA                  Phone: +86 186 1680 9761                  Email: info@chemcobeads.com      Website: www.chemcobeads.com</p>
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Composition	Weight*	CAS No.
Zirconium dioxide ZrO <sub>2</sub> + Hafnium dioxide HfO <sub>2</sub>	2 – 20 %	1314-23-4 12055-23-1
Silicon oxide SiO <sub>2</sub>	35 %	7631-86-9
Aluminum oxide Al <sub>2</sub> O <sub>3</sub>	40 – 60 %	1344-28-1
Others	3- 5 %	-

\*typical values

<b>Hazards identification</b>	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.
<b>First aid measures</b>	Eyes: may be abrasive through friction, treat as particle in eye.
<b>Fire fighting measures</b>	This product is not combustible or explosive. It is compatible with all standard fire-fighting methods.
<b>Accidental release measures</b>	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.
<b>Handling and storage</b>	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.
<b>Physical / Chemical Properties</b>	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
<b>Disposal consideration</b>	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.
<b>Transport information</b>	Not regulated
<b>Manufacturer / supplier</b>	Chemco Advance Material (Suzhou) Co., Ltd Guangfu Industrial Park, Fengshan Road, Suzhou, 215159, CHINA Phone: +86 186 1680 9761 Email: info@chemcobeads.com      Website: www.chemcobeads.com