



# P.GENERAL SUPPLY

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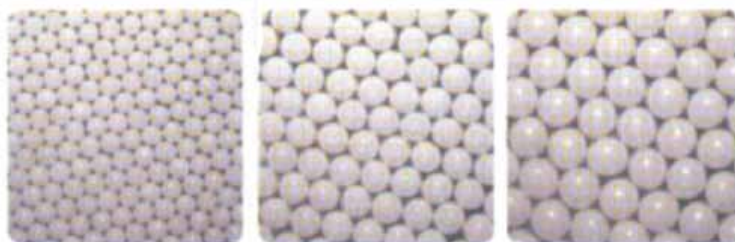
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## Zirconium Beads : CENOBEADS

### Main advantages of using CENOBEADS

- Offers the best choice for media selection and cost reduction by manufacturing and distribution both CZY and CZC , CZS
- Satisfies customer needs for fine particle sizes across the whole industry (Paint / Ink / Dyes / Pigments /Magnetic Coating  
Agrochemicals/ Mineral Fillers / Technical and electro ceramics etc.)
- Produces the most optimal for the Horizontal and Vertical mills.
- Cenobeads is the most optimal media for low / high viscosity microgrinding and microdispersion due to its high density and hardness.
- Minimizes the pollution emission from the media due to its high wear resistance and smooth surface.
- Maximizes productivity and minimizes operational loss from media breakage during grinding /dispersion due to its high fracture toughness.
- Cenobeads is the most optimal shot-blasting and peening media due to its ability to resist breakage even after long periods of peening



### Physical Properties of CZY

Composition	ZrO <sub>2</sub> ( 3 mo 1Y <sub>2</sub> O <sub>3</sub> )
Specification Density	>6.02 g / cm <sup>3</sup>
Bulk Density	>3.70 g / cm <sup>3</sup>
Hardness	>1300 Hv
Thermal Conductivity	2.88 W/mK
Thermal Expansion Coefficient	9.60 x 10 <sup>-6</sup> / °C ( 20 to 400 °C )
Bending Strength	600 kgf /mm <sup>3</sup>
Packing	25 kgs
standard Size	0.3 mm/0.5 mm/ 0.65 mm/0.8 mm/1 mm/ 1.2 mm/1.5 mm/2.0 mm

### Chemical Composition of CZY

Element	Specification
ZrO <sub>2</sub> HfO <sub>2</sub>	94.9 ± 0.50
Y <sub>2</sub> O <sub>3</sub>	5.1 ± 0.30
Al <sub>2</sub> O <sub>3</sub>	0.2 ± 0.05
Fe <sub>2</sub> O <sub>3</sub>	Less than 0.01
SiO <sub>2</sub>	Less than 0.01
TiO <sub>2</sub>	Less than 0.01
Na <sub>2</sub> O <sub>2</sub>	Less than 0.01
MgO	Less than 0.01