



Cerium Stabilized Zirconia Beads



Micro-structure of delicate, uniform, dense ceramics of the Quartet, it has a gem-like hardness and density, is a series of grinding all the zirconium-mediated a most Shen. Its excellent wear resistance and fracture toughness is particularly suited for high-solid-phase high-viscosity, high hardness of the paste for grinding and dispersion of pure; good match at the same time high input energy and the high shear machine sanding.

Applications :

- 1, wear-resistant, corrosion-resistant products: paints, Coating, printing and dyeing
- 2, GCC for paper
- 3, Superfine grinding mineral (Gold, Silver and so on)
- 4, to prevent pollution: medicine, food, cosmetics
- 5, Ceramics: Electronic ceramics, refractory ceramics, structural ceramics

Properties and technique parameters

Composition	ZrO ₂ 80% , CeO ₂ 20%
Packed Density	3.8-4.0g/m ³
Specific Density	6.1g/cm ³
Hardness(Mohs)	9
Elastic modulus	360 (52) GPa(x 10 ⁶)
Thermal Conductivity	3W/m.K
Crushing Load	≥10 (Φ7mm) KN
Fracture Toughness	8.5 MPam ¹⁻²
Thermal expansion Coefficient(20-400 °C)	9 10x10 ⁻⁶ / °C(20-400)
size	0.6—10mm

Machine

Sand mill, attention Mill and other quick speed grinding machine