



Yttria-stabilized zirconia beads and cylinders



1. Features:

1. With a very low abrasion(ppm) to prevent pollution
2. High grinding efficiency
3. High strength and Resistance to corrosion:
4. Extremely long working life, low cost.
5. for high viscosity, wet grinding and dispersion of occasions

2. Physical parameters

Items	Unit	Data
Chemical Compisision	wt%	ZrO ₂ ≥ 94.5% , Y ₂ O ₃ 4.50±0.2%
Bulk Density	g/cm ³	3.7
Specific Density	g/cm ³	≥ 6.0
Moh's Hardness		9
Vicker Hardness	HV	1250
Elastic modulus	GPa	200
Abrasiveness	%	≤0.01
Water absorption	%	<0.01
Thermal Conductivity	W/m.K	3
Crushing Load	KN	>2(Φ2mm)
White content	%	>92
Fracture Toughness	MPam ¹⁻²	9
Grinding Ball Size	mm	Φ0.3~50
Grinding Cylinders size	mm	Φ5×5、Φ7×7、Φ10×10、 Φ12.7×12.7、Φ15×15、Φ20×20

3. Applications:

- 1, wear-resistant, corrosion-resistant products: paints, textiles, paints, printing and dyeing
- 2, high strength, high toughness products: magnetic materials, piezoelectric ceramics, dielectric ceramics
- 3, to prevent pollution: medicine, food, cosmetics
- 4, Ceramics: Electronic ceramics, refractory ceramics, structural ceramics