

Technical Data Sheet

Product Name: Yttria Stabilized Zirconia Grinding Media
Catalog No.: ZC0516
Composition: ZrO₂ + Y₂O₃
Dimensions: Customized
Shape: Balls, Cylinder



Specification

Property	Unit	Value
Composition	wt%	94.6% ZrO ₂ , 5.25% Y ₂ O ₃
Specific Density	g/cm ³	6.0–6.1
Hardness	Mohs	>9.0
Elastic Modulus	GPa	200
Fracture Toughness	MPa·m ^{0.5}	9
Grain Size	µm	0.5
Thermal Conductivity	W/m·K	3
Thermal Expansion Coefficient	1 x 10 ⁻⁶ /°C	9.6
Bulk Density	kg/L	3.7
Abrasion Resistance	ppm/year	Extremely low
Chemical Stability	—	Excellent (acid/alkali resistant)

YSZ Ceramic Balls

Item No.	Description	Lot Size
YSZ-GMB	YSZ Ceramic Balls, Diameter 0.3 mm–55 mm	20 kg / 100 kg

YSZ Ceramic Cylinders

Item No.	Description	Lot Size
YSZ-GMC5.5X5.5	Dia. 5.5 mm x 5.5 mm	20 kg / 100 kg
YSZ-GMC7X7	Dia. 7 mm x 7 mm	20 kg / 100 kg
YSZ-GMC10X10	Dia. 10 mm x 10 mm	20 kg / 100 kg
YSZ-GMC15X15	Dia. 15 mm x 15 mm	20 kg / 100 kg

Customized sizes are available according to your requests.

Stanford Advanced Materials

By..... *Woman*