



TECHNICAL DATA SHEET OF ZIRCONOX CERAMIC MICRO MEDIA

	PROPERTIES	VALUE
CHEM.	ZrO ₂ + HfO ₂	83 %
	CeO ₂	17 %
PHYSICAL	Colour	Golden Brown
	Surface Finish	Glossy, Satin Smooth
	Density	6.20 ± 0.05 g/cm ³
	Bulk Density	3.85 ± 0.05 kg/ltr
	Porosity	Nil
	Water Absorption	Nil
	Hardness on Moh's Scale	9
	Hardness on Vicker's Scale	1200 - 1300 Hv ₅
	Flexural Strength 3 P.B. (@ Room Temperature)	500 MPa
	Compressive Strength (@ Room Temperature)	2400 MPa
	Young's Modulus	150 - 200 GPa
	Crushing Strength (@ Room Temperature : Ø 1.5mm Bead)	215 kgf
	Bead Sphericity 90%	≥0.95
	% Cumulative Weight Loss / Hr (Wear Test Conducted in High Speed Bead Mill. Media Size Ø 1.2 to 1.7 mm)	
	After 24 Hrs.	0.0015
	After 96 Hrs.	0.0010
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	10 x 10 ⁻⁶ / °C
	Thermal Conductivity (@ Room Temperature)	2 W/mK
	Max Temperature of use (No Load Condition)	1050 °C (1922 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	-
	Dielectric Constant (@ Room Temperature @ 1 MHz)	15 - 18
	Dissipation Factor (@ Room Temperature @ 1 MHz)	< 0.005
	Volume Resistivity (@ Room Temperature)	> 10 ¹² Ω.cm

Kindly note that all values mentioned are based on test pieces and may vary according to component design and manufacturing process. The values are not guaranteed by Jyoti Ceramic Ind. in anyway whatsoever and should be treated as indicative only. All values refer to a testing temperature of 20 °C, unless otherwise specified.



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