



TECHNICAL DATA SHEET OF ZIRCOSIL MICRO MEDIA

	PROPERTIES	VALUE
CHEM.	ZrO ₂	60 %
	SiO ₂	30 %
	Others	10 %
PHYSICAL	Colour	Light Grey
	Surface Finish	Glossy, Satin Smooth
	Density	4.40 ± 0.05 g/cm ³
	Bulk Density	2.70 ± 0.05 kg/ltr
	Porosity	Nil
	Water Absorption	Nil
	Hardness on Moh's Scale	9
	Hardness on Vicker's Scale	1100 - 1150 Hv ₅
	Flexural Strength 3 P.B. (@ Room Temperature)	160 MPa
	Compressive Strength (@ Room Temperature)	450 MPa
	Young's Modulus	-
	Crushing Strength (@ Room Temperature : Ø 1.5mm Bead)	72.5 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.	0.0063
	After 96 Hrs.	0.00582
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	4 x 10 ⁻⁶ /°C
	Thermal Conductivity (@ Room Temperature)	4 W/mK
	Max Temperature of use (No Load Condition)	1150 °C (2102 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	-
	Dielectric Constant (@ Room Temperature @ 1 MHz)	8 - 10
	Dissipation Factor (@ Room Temperature @ 1 MHz)	-
	Volume Resistivity (@ Room Temperature)	> 10 ¹¹ 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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