



TECHNICAL DATA SHEET OF STEATITE CERAMIC (C221)

	PROPERTIES	VALUE
CHEMICAL	SiO ₂	60 - 65 %
	MgO	20 - 25 %
	BaO	2 - 5 %
	Al ₂ O ₃	6 - 7 %
	Others	1 - 2 %
PHYSICAL	Colour	Off White
	Surface Finish	Smooth
	Density	2.70 ± 0.05 g/cm ³
	Bulk Density	1.60 ± 0.05 kg/ltr
	Porosity	Nil
	Water Absorption	Nil
	Hardness on Moh's Scale	7
	Hardness on Vicker's Scale	520 - 550 Hv ₅
	Flexural Strength 3 P.B. (@ Room Temperature)	130 MPa
	Compressive Strength (@ Room Temperature)	850 MPa
	Young's Modulus	120 GPa
	Crushing Strength (@ Room Temperature : Ø 10mm Media)	700 kgf
	Bead Sphericity 90%	-
	% Cumulative Weight Loss / Hr (Wear Test Conducted in a Jar Mill with Water & Silica Sand. Media Size Ø 25 mm)	
	After 24 Hrs.	0.0262
	After 96 Hrs.	0.0253
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	8.5 x 10 ⁻⁶ / °C
	Thermal Conductivity (@ Room Temperature)	2.3 W/mK
	Max Temperature of Use (No Load Condition)	1050 °C (1922 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	20 kV/mm
	Dielectric Constant (@ Room Temperature @ 1 MHz)	6
	Dissipation Factor (@ Room Temperature @ 1 MHz)	0.0002
	Volume Resistivity (@ Room Temperature)	> 10 ¹³ Ω.cm
	Te - Value	800 °C (1472 °F)

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.



Contact us :

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