



# Dense Cordierite Ceramic

## TECHNICAL DATA SHEET OF DENSE WHITE CORDIERITE CERAMIC

	PROPERTIES	VALUE
CHEMICAL	SiO <sub>2</sub>	50 - 55 %
	Al <sub>2</sub> O <sub>3</sub>	31 - 35 %
	MgO	6 - 8 %
	Others	2 - 10 %
PHYSICAL	Colour	Off White
	Surface Finish	Smooth
	Density	2.27 ± 0.05 g/cm <sup>3</sup>
	Bulk Density	-
	Porosity	NIL
	Water Absorption	NIL
	Hardness on Moh's Scale	-
	Hardness on Vicker's Scale	300 Hv <sub>5</sub>
	Flexural Strength 3 P.B. (@ Room Temperature)	97 MPa
	Compressive Strength (@ Room Temperature)	300 MPa
	Young's Modulus	80 GPa
	Crushing Strength	-
	Bead Sphericity 90%	-
	% Cumulative Weight Loss / Hr	
	After 24 Hrs.	-
	After 96 Hrs.	-
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	3.0 - 3.5 x 10 <sup>-6</sup> / °C
	Thermal Conductivity (@ Room Temperature)	3 W/mK
	Max Temperature of Use (No Load Condition)	1050 °C (1922 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	15 kV/mm
	Dielectric Constant (@ Room Temperature @ 1 MHz)	5
	Dissipation Factor (@ Room Temperature @ 1 MHz)	0.004
	Volume Resistivity (@ Room Temperature)	10 <sup>11</sup> 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.



Contact us :

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