

TECHNICAL DATA SHEET OF HT CORDIERITE CERAMIC

	PROPERTIES	VALUE
CHEMICAL	SiO ₂	50 - 55 %
	Al_2O_3	34 - 38 %
	MgO	6 - 8 %
	Others	2 - 8 %
PHYSICAL	Colour	Light Grey
	Surface Finish	Smooth
	Density	$2.37 \pm 0.05 \text{ g/cm}^3$
	Bulk Density	-
	Porosity	5 %
	Water Absorption	2 %
	Hardness on Moh's Scale	7 %
	Hardness on Vicker's Scale	300 Hv ₁₀
	Flexural Strength 3 P.B. (@ Room Temperature)	105 MPa
	Compressive Strength (@ Room Temperature)	350 MPa
	Young's Modulus	90 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)	2.5 - 3.5 x 10 ⁻⁶ / °C
	Thermal Conductivity (@ Room Temperature)	3 W/mK
	Max Temperature of Use (No Load Condition)	1100 °C (2012 °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 ¹¹ Ω.cm
	Te - Value	600 °C (1112 °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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