



Porous Cordierite Ceramic

TECHNICAL DATA SHEET OF POROUS CORDIERITE CERAMIC

	PROPERTIES	VALUE
CHEMICAL	SiO ₂	52 - 57 %
	Al ₂ O ₃	24 - 28 %
	MgO	9 - 13 %
	ZrO ₂	2 - 6 %
	Others	2 - 6 %
PHYSICAL	Colour	Buff
	Surface Finish	Porous
	Apparent Density	2.5 ± 0.05 g/cm ³
	Bulk Density	1.7 ± 0.05 kg/ltr
	Porosity	25 %
	Water Absorption	15 %
	Hardness on Moh's Scale	-
	Hardness on Vicker's Scale	-
	Flexural Strength (@ Room Temperature)	35 Mpa
	Compressive Strength (@ Room Temperature)	200 Mpa
	Young's Modulus	50 Gpa
	Crushing Strength (@ Room Temperature : Ø 1.5mm Bead)	-
	Bead Sphericity 90%	-
	% Cumulative Weight Loss / Hr (Wear test conducted with Water)	
	After 24 Hrs.	-
	After 96 Hrs.	-
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	3.0 - 3.5 x 10 ⁻⁶ / °C
	Thermal Conductivity (@ Room Temperature)	1.3 - 1.8 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 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.



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