



Alumina Porcelain

TECHNICAL DATA SHEET OF ALUMINA PORCELAIN (C130)

	PROPERTIES	VALUE
CHEM.	SiO ₂	66 %
	Al ₂ O ₃	27 %
	Others	7 %
PHYSICAL	Colour	Light Tan
	Surface Finish	Smooth
	Density	2.50 ± 0.05 g/cm ³
	Bulk Density	-
	Porosity	Nil
	Water Absorption	Nil
	Hardness on Moh's Scale	> 6
	Hardness on Vicker's Scale	350 Hv ₅
	Flexural Strength 3 P.B. (@ Room Temperature)	110 MPa
	Compressive Strength (@ Room Temperature)	400 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)	4.5 - 5.0 x 10 ⁻⁶ /°C
	Thermal Conductivity (@ Room Temperature)	1.2 - 1.6 W/mK
	Max Temperature of Use (No Load Condition)	900 °C (1652 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	15 kV/mm
	Dielectric Constant (@ Room Temperature @ 1 MHz)	5.5
	Dissipation Factor (@ Room Temperature @ 1 MHz)	0.003
	Volume Resistivity (@ Room Temperature)	10 ¹² 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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