



TECHNICAL DATA SHEET OF DURALOX 92W

	PROPERTIES	VALUE
CHEMICAL	Al ₂ O ₃	≥ 92 %
	SiO ₂	2 - 4 %
	MgO	2 - 4 %
	CaO	0 - 3 %
	Others	0 - 1 %
PHYSICAL	Colour	White
	Surface Finish	Abrasive
	Density	3.67 ± 0.05 g/cm ³
	Bulk Density	2.20 ± 0.05 kg/ltr
	Porosity	Nil
	Water Absorption	Nil
	Hardness on Moh's Scale	9+
	Hardness on Vicker's Scale	1250 Hv ₅
	Flexural Strength 3 P.B. (@ Room Temperature)	400 MPa
	Compressive Strength (@ Room Temperature)	2000 Mpa
	Young's Modulus	280 Gpa
	Crushing Strength (@ Room Temperature : Ø 1.5mm Bead)	70 kgf
	Bead Sphericity 90%	≥0.95
	% Cumulative Weight Loss / Hr (Conducted in a Jar Mill with Water & Silica Sand. Ø 20 mm Iso Pressed Balls)	
	After 24 Hrs.	0.0174
	After 96 Hrs.	0.0164
THERMAL	Coefficient of Linear Thermal Expansion (Room Temperature to 1000 °C)	7.6 x 10 ⁻⁶ / °C
	Thermal Conductivity (@ Room Temperature)	23 W/mK
	Max Temperature of Use (No Load Condition)	1400 °C (2552 °F)
ELECTRICAL	Dielectric Strength (@ Room Temperature)	20 kV/mm
	Dielectric Constant (@ Room Temperature @ 1 MHz)	8
	Dissipation Factor (@ Room Temperature @ 1 MHz)	0.0004
	Volume Resistivity (@ Room Temperature)	> 10 ¹³ 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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