

MATERIAL DATA SHEET

Material name		B96-B	
Properties	units	Specifications	Typical
Al ₂ O ₃ – content	(m/m) %	96 ± 0,3	96,1
Na ₂ O – content	(m/m) %	max. 0,15	0,1
Sintered density	g/cm ³	min. 3,67	3,69
Open porosity	%	0	0
Compressive strenght	MPa	min. 2000	2200
Bending strength	MPa	min. 300	320
Vickers Hardness	Hv 10	min. 1200	1250
Young's Modulus	GPa	min. 280	300
Coefficient of linear expansion			
20 to 200 °C	x 10-6 / K	5 – 6	5,8
20 to 400 °C		6 – 7	6,2
20 to 600 °C		6 – 8	6,8
20 to 800 °C		7 – 9,5	7,6
20 to 1000 °C		7 – 8,5	8,2
Specific Heat	J/kg*K	700 – 850	820
Thermal Conductivity (20-100°C)	W/m*K	16 – 24	19
Water Absorption	%	0	0
Electric strength	kV/mm	min. 15	17
Thermal shock resist	ΔT°C	min. 200	220
Colour		white	

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