

MATERIAL DATA SHEET

Material name		B98
Properties	units	value
Al ₂ O ₃ – content	(m/m) %	98
Na ₂ O – content	(m/m) %	max. 0,1
Sintered density	g/cm ³	min. 3,80
Open porosity	%	0
Compressive strenght	MPa	2800
Bending strength	MPa	380
MOHS Hardness	Mohs scale	9
Vickers Hardness	Hv 10	min. 1500
Young's Modulus	GPa	350
Coefficient of linear expansion		
20 to 200 °C	x 10 ⁻⁶ / K	5 – 6
20 to 400 °C		6 – 7
20 to 600 °C		6 – 8
20 to 800 °C		7 – 9,5
20 to 1000 °C		7 – 8,5
Specific Heat	J/kg*K	800 – 900
Thermal Conductivity (20-100°C)	W/m*K	20 – 28
Water Absorption	%	0
Electric strength	kV/mm	15
Thermal shock resist	ΔT°C	250
Colour		white

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