

MATERIAL DATA SHEET

Grade		B-95
Properties	units	
Al ₂ O ₃ - content	(m/m) %	95
Bulk density	g/cm ³	3,70
Open porosity	%	0
Compressive strength	MPa	1800
Flexural strength	MPa	300
Weibull modulus	-	>10
Young's Modulus	GPa	315
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 - 8,5
20 to 1000°C		7 - 9
Hardness	Mohs' scale	9
Main crystal size	µm	3 - 5
Specific Heat	J/kg*K	700 - 850
Water Absorption	%	0
Thermal Conductivity (20-100°C)	W/m*K	16 - 24
Dielectric Constant 1 MHz	20 °C	9,0
Electric strength	KV/mm	15
Use Temperature	°C	1450
Thermal shock resistance	ΔT°C	200
Colour		white
Typical Application		insulator tubes, spark plug, insulators

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