

MATERIAL DATA SHEET

Material name		B-Y3Z ¹
Properties	units	
ZrO ₂ - content	(m/m) %	94
Y ₂ O ₃ - content	(m/m) %	5
Bulk density	g/cm ³	min. 6,00
Open porosity	%	0
Compressive strength	MPa	2000
Bending strength	MPa	900
Vickers Hardness	Hv 10	min. 1350
Young's Modulus	GPa	200
Coefficient of linear expansion		
20 to 200 °C	x 10 ⁻⁶ / K	10,0
20 to 400 °C		10,0
20 to 600 °C		10,1
20 to 800 °C		10,1
20 to 1000°C		10,3
Specific Heat	J/kg*K	-
Water Absorption	%	0
Thermal Conductivity (20-100°C)	W/m*K	2 – 3
Electric strength	KV/mm	-
Colour		white
Thermal shock resist	ΔT °C	200

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