

MATERIAL DATA SHEET

Material name		TOLOX-95	
Properties	units	Specifications	Typical
Al ₂ O ₃ - content	(m/m) %	min. 95	96,15
Na ₂ O - content	(m/m) %	max 0,1	0,05
Bulk density	$\frac{g}{cm^3}$	min. 3,70	3,77
Open porosity	%	0	0
Compressive strength	MPa	2000	2100
Bending strength	MPa	280	322
Vickers Hardness	Hv 10	min. 1200	1300
Young's Modulus	GPa	300	
Weibull Modulus	MPa	min. 13	14,1
Coefficient of linear expansion			
20 to 200 °C	$x \frac{10^{-6}}{K}$	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	$\frac{J}{kg \cdot K}$	700 - 850	
Water Absorption	%	0	
Thermal Conductivity (20-100°C)	$\frac{W}{m \cdot K}$	16 - 24	
Electric strength	$\frac{KV}{mm}$	15	
Colour		white	
Thermal shock resist	ΔT (°C)	200	