CFS Silicium Nitride SI3N4

99,9% Si3n4

PROPERTY	UNIT	VALUE
Classification as per DIN ISO	-	C935
Main component	Weight - %	99,9% SI3N4
Colour	-	Gray
Density	g/cm^3	3,2
Open porosity	Vol - %	0
Bending strength	MPa	>750
Compressive strength	MPa	3820
Modulus of elasticity	GPa	>300
Vickers hardness	N/mm^2	>13.500
Fracture toughness	MPa $m^{1/2}$	6,5
Weibull modulus	-	-
Linear thermal expansion coefficient	10^{-6} K^{-1}	2,9
Thermal conductivity	W m^{-1} K^{-1}	20
Max. working temperature in air	°C	1150

TECHNICAL NOTES

The values were determined on test specimens and are typical for the respective material. Product attributes may vary depending on the design and production process. Other materials are available on demand.