CFS Silicium Carbide SSIC

99,9% - Gray/Black

PROPERTY	UNIT	VALUE
Classification as per DIN ISO	-	-
Main component	Weight - %	99,9% SiC
Colour	-	Gray/black
Density	g/cm^3	3,16
Open porosity	Vol - %	0
Bending strength	MPa	>400
Compressive strength	MPa	3500
Modulus of elasticity	GPa	>270
Vickers hardness	N/mm^2	>25.000
Fracture toughness	MPa $m^{1/2}$	4
Weibull modulus	-	12
Linear thermal expansion coefficient	10^{-6} K^{-1}	4,1
Thermal conductivity	W m^{-1} K^{-1}	120
Max. working temperature in air	°C	1700

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.