CFS Silicium Carbide SISIC

85% - Gray/Black

PROPERTY	UNIT	VALUE
Classification as per DIN ISO	-	-
Main component	Weight - %	85% SiC
Colour	-	Gray/black
Density	g/cm^3	3,03
Open porosity	Vol - %	0
Bending strength	MPa	>350
Compressive strength	MPa	2000
Modulus of elasticity	GPa	>300
Vickers hardness	N/mm^2	>24.000
Fracture toughness	MPa $m^{1/2}$	4
Weibull modulus	-	-
Linear thermal expansion coefficient	10^{-6} K^{-1}	4,5
Thermal conductivity	W m^{-1} K^{-1}	125
Max. working temperature in air	°C	1300

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.