



CFCCARBON CO., LTD

SiCf/SiC properties

Product name: SiCf/SiC; SiC/SiC

SiC fiber type: --

Processing type: SiC fiber+CVD/PIP/RMI

Main application: engine blade

No.	Items	SiCf/SiC	Unit
1	SiC content	>99	Vol%
2	Bulk density	2.95-3.0	g/cm ³
3	Apparent porosity	≤2	%
4	Flexural strength 20°C	165	MPa
5	Flexural strength 1400°C	200	Mpa
6	Compressive strength	500-700	Mpa
7	Hardness	2000-2300	Kg/mm ²
8	Fracture toughness	3-4	Mpa*M ^{1/2}
9	Thermal conductivity	35-36	W/m.k
10	C.T.E	4.6-4.8	a x10 ⁻⁶ /K
11	Thermal shock resistance	Very good	-
12	Max. working temperature	1650	°C

Note: The above technical data is the average volume of the standard test samples; just for reference. It can be adjusted as per user's special demand.

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