



## CFCCARBON CO., LTD

### C/SiC material

Product name: C/C-SiC; C/SiC

C/SiC type: C/C+CVD/PIP

Main application: anti-ablation, thrust chamber, throat lining;  
Structural materials

### Standard C/SiC properties

No.	Characteristics	Items	C/SiC	Unit
1	Low density	density	1.9~2.0	g/cm <sup>3</sup>
2	High strength	3points bending strength	500~700	MPa
3		Elastic modulus	70~85	GPa
4		Fracture toughness	26~32	MPa.m <sup>1/2</sup>
5	High temperature stability	C.T.E	<2.5	10 <sup>-6</sup> .K <sup>-1</sup>
6		Thermal conductivity	>3	W/(m.k)
7		Specific heat	>0.6	J/(g.k)
8		thermal diffusion (RT-1200°C)	<2.8	mm <sup>2</sup> /s
9	anti-ablation; high temp resistance	anti-ablation property	5X10 <sup>-3</sup>	g/s
10			10X10 <sup>-3</sup>	mm/s

Note: The above technical parameters are for reference only, and the performance indicators of different carbon fiber models and combined processes are different, which can be adjusted according to actual needs

**Max size: W800-H1000-T50mm, or D800/700-H1000mm, other sizes to confirm!**

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