



**TECHNICAL DATA SHEET**  
**SILICON CARBIDE CERAMICS (SSiC & SiSiC)**

**Terminology:**

SSiC: Sintered Silicon Carbide

SiSiC: Reaction Bonded Silicon Carbide

**Technical Specifications**

Item	Unit	Technical Parameters	
Material	-	SSiC	SiSiC
Color	-	Black	Black
Density	g/cm <sup>3</sup>	3.12	3.06
Water Absorption	%	0	0
HRA	-	≥92	≥90
Modulus of Elasticity	Gpa	400	350
Flexural Strength (@R.T.)	Mpa	359	300
Compressive Strength (@R.T.)	Mpa	≥2200	2000
Thermal Conductivity (@R.T.)	W/Mk	110	100
Coefficient Of Thermal Expansion (20-1000°C)	10 <sup>-6</sup> /°C	4.0	4.0
Max. Working Temperature	°C	1500	1300

Note: above data is for reference only, the values may vary according to the product configuration, geometry and manufacturing process.