

Analysis of SiSiC

Item	Unit	Index
Application temperature	°C	1380
Density	g/cm ³	≥ 3.02
Open porosity	%	≤ 0.1
Bending strength	Mpa	250 (20°C)
	Mpa	280 (1200°C)
Modulus of elasticity	Gpa	330 (20°C)
	Gpa	300 (1200°C)
Thermal conductivity	W/m.k	45 (1200°C)
Coefficient of thermal expansion	K ⁻¹ ×10 ⁻⁶	4.5
Rigidity		13
Acid and alkali resistance		Excellent
SiC	%	≥85
Si	%	≤15
Thermal Expansion	K ⁻¹ × 10 ⁻⁶	4.5
Moh's Hardness		13