

Indicators for Si₃N₄ Bonded SiC products

Products		Si ₃ N ₄ Bonded SiC products
Composition (%)	SiC	≥75.0
	Si ₃ N ₄	≥21.0
	Fe ₂ O ₃	≤0.5
	Si	≤0.5
Apparent Porosity(%)		≤16.0
Bulk Density (g/cm ³)		≥2.68
Compressive strength at room temperature (Mpa)		≥150
Bending Strength (Mpa)	Room Temperature	≥45.0
	1400°C	≥50.0
Thermal conductivity λ(W/m · K)	Test temperature 650°C	18.5
	Test temperature 1000°C	16.0
Thermal diffusivity α(cm ² /s)	Test temperature 650°C	0.064
	Test temperature 1000°C	0.053
Linear expansion	α _{30—1000}	4.02 × 10 ⁻⁶ (k ⁻¹)
	α _{30—1100}	4.06 × 10 ⁻⁶ (k ⁻¹)

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