

Silicon Nitride (Si3N4) Ceramic Property

Density	Relative density	Elastic modulus	Compression strength ratio (25°C)	Hardness
g/cm ³	%	GPa	%	GPa
3.24 0.02	>99.5	300~320	40~50	16 - 20
Fracture toughness	Bending strength	Poisson's ratio	Linear expansion coefficient	Webuller modulus
/MPa•m ^{1/2}	MPa		10-6K-1	
6.0~9.0	900~1000	0.25	3.1~3.3	12~15
Thermal conductivity	Specific resistance ratio	Corrosion resistance	Size stability	Magnetic
W•(m•K)-1				
15~20	1018	Excellent	Excellent	NO

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