

Silicon Nitride Disc

Silicon nitride disc has great strength and fracture toughness, good thermal shock resistance, and excellent wear and impact resistance. Nextgen Advanced Materials supplies the silicon nitride disc with high quality and fast delivery. Meanwhile, the customization is available.

Product Description

You can rest assured to buy customized Nextgen Silicon Nitride Disc from us. So we suggest you bookmark our website and we will show you the latest news regularly. Silicon nitride disc has great strength and fracture toughness, good thermal shock resistance, and excellent wear and impact resistance. It is ideal for a wide range of applications. Its low density and great strength also enable the optimal implementation of lightweight structures.

Silicon nitride ceramic is an inorganic material ceramic that does not shrink during sintering. There are five different methods to produce Silicon Nitride including SRBSN, GPSN, HPSN, HIP-SN, and RBSN, making the application and working material different slightly.







Specification	
Mechanical Properties	
Density	3.21 g/cm3
Compressive Strength	3000 MPa
Flexural Strength	800 MPa
Weibull-Modulus m	15
Fracture Toughness KIc	6.5 MPa m^1/2

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com



Nextgen Advanced Materials INC www.nexgematerials.com Young's Modulus E 320 GPa 0.28 Poisson Ratio Hardness Vickers (HV 1) 16 GPa Thermal Properties Maximum Temperature (Inert Gas) 1200°C Maximum Temperature (Air) 1100°C Thermal Conductivity @ 20°C 28 W/mK Thermal Conductivity @ 1000°C 16 W/mK Thermal Expansion (20–100°C) 2*10-6/K Thermal Expansion (20–1000°C) 3.510-6/K Thermal Shock parameter R1 600 K Thermal Shock parameter R2 15 W/mm Electrical Properties Resistivity at 20°C 10^12 Ωcm 10^7 Ωcm Resistivity at 800°C Dielectric constant 6 MHz

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com