



## **Silicon Nitride Ring**

Seal rings produced by silicon nitride provide excellent mechanism strength and durability.

Nextgen Advanced Materials supplies the Silicon Nitride Ring with high quality and fast delivery.

Meanwhile, the customization is available.

## **Product Description**

You are welcomed to come to our factory to buy the latest selling, low price, and high-quality Nextgen Silicon Nitride Ring. We welcome new and old customers to continue to cooperate with us for a bright future and provide you with the best after-sales service and timely delivery. Silicon nitride ring 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

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



Nextgen Advanced Materials INC www.nexgematerials.com Density 3.21 g/cm3 Compressive Strength 3000 MPa 800 MPa Flexural Strength Weibull-Modulus m 15 Fracture Toughness KIc 6.5 MPa m^1/2 Young's Modulus E 320 GPa Poisson Ratio 0.28 16 GPa Hardness Vickers (HV 1) 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 10^12 Ωcm Resistivity at 20°C 10^7 Ωcm Resistivity at 800°C Dielectric constant 6 MHz

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