



Silicon Nitride Tube

Silicon Nitride Tube is a covalent bond compound with high strength, low density, and high temperature resistance. Nextgen Advanced Materials supplies the Silicon Nitride Tube with high quality and fast delivery. Meanwhile, the customization is available.

Product Description

Nextgen Advanced Materials INC is manufacturer & supplier who mainly produces Silicon Nitride Tube with many years of experience. Hope to build business relationship with you. Silicon nitride tube is made of a high-melting-point ceramic material that is extremely hard and relatively chemically inert. Si3N4 is a man-made compound synthesized through several different chemical reaction methods. Due to the even performance in high temperature, Si3N4 is a commonly used ceramic material in the metallurgical industry. It has excellent thermal shock resistance due to the microstructure. The creep and oxidation resistance of Si3N4 is also superior, its low thermal conductivity and high wear resistance also make it an outstanding material that can withstand conditions of most industrial applications.





Specification	
Color	Grey
Mechanical Properties	
Density	3.21 g/cm3
Compressive Strength	3000 MPa
Flexural Strength	800 MPa

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Nextgen Advanced Materials TO BE THE BEST	Nextgen Advanced Materials INC	www.nexgematerials.com
Weibull-Modulus m		15
Fracture Toughness Klc		6.5 MPa m^1/2
Young's Modulus E		320 GPa
Poisson Ratio		0.28
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 paramet	er R1	600 K
Thermal Shock paramet	er R2	15 W/mm
Electrical Properties		
Resistivity at 20°C		10^12 Ωcm
Resistivity at 800°C		10^7 Ωcm
Dielectric constant		6 MHz

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