

■ **Introduction:**

Barometric sintered Si3N4 silicon nitride ceramics is a kind of high performance ceramic material, which is made of silicon nitride powder by sintering process under high temperature, high pressure and no oxygen environment. Silicon nitride ceramics with high hardness, high strength, high wear resistance, high temperature stability, good corrosion resistance and other characteristics, are widely used in high temperature, high pressure, chemical corrosion and other harsh environment of mechanical parts, electronic components, thermal equipment and other fields. Compared with traditional sintered alumina ceramics, silicon nitride ceramics have higher mechanical properties and heat resistance, so it is an ideal high-performance ceramic material.

■ **Technical data sheet:**

Items		Items	
Si3N4	≥92%	Compressive strength	≥1500Mpa
Density	≥3.1g/cm3	Thermal conductivity	16-22W/mk
Hardness(HRA)	≥92	Coefficient of thermal expansion	3.2-3.4 10 ⁻⁶ K
Flexural strength	≥600Mpa	Working temperature(Oxidizing atmosphere)	1400℃

■ **Advantages:**

- 1.High strength and good compactness of Barometric sintered Si3N4 ceramics.
- 2.Low coefficient of thermal expansion of Barometric sintered Si3N4 plate.
- 3.Excellent thermal shock resistance of Sintering Silicon Nitride Ceramics.
- 4.Non-ferrous molten liquid with aluminum solution does not infiltrate.

