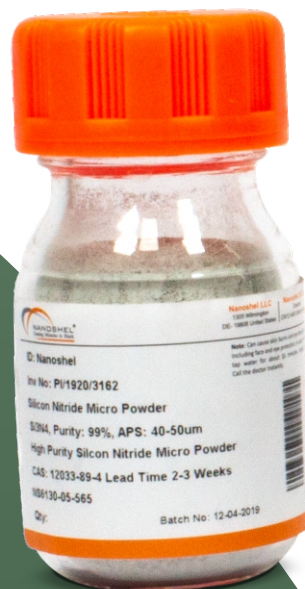


SILICON NITRIDE POWDER

Stock No: NS6130-05-565



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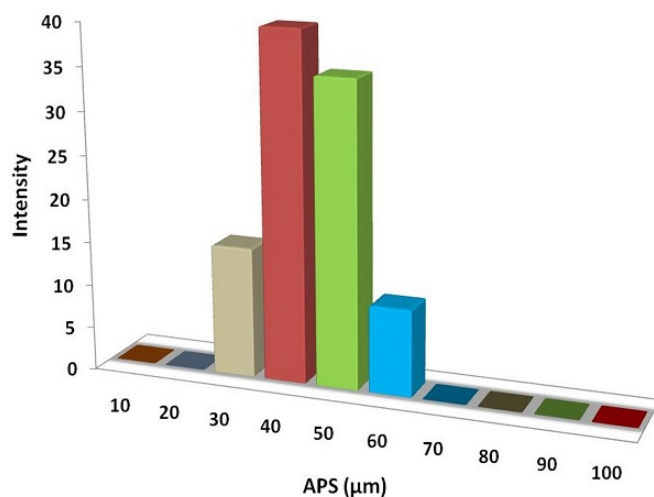
Silicon Nitride Powder

Silicon nitride is a chemical compound of the elements silicon and nitrogen. Si₃N₄ is the most thermodynamically stable of the silicon nitrides. Si₃N₄ has, during the past 40 years, developed into a range of very-well-established materials with many very useful properties, of which resistance to thermal shock, high-temperature stability, hardness, and wear resistance are, at the moment, the most important.

Silicon nitrides (Si₃N₄) feature an excellent combination of material properties. They are nearly as light as silicon carbide (SiC), but their microstructure gives them excellent thermal shock resistance and their high fracture toughness makes them resistant to impacts and shocks.

Quick Facts

Product	: Silicon Nitride Powder
Color	: Black Powder
Stock No	: NS6130-05-565
CAS	: 7440-21-3
Purity	: 99%
APS	: 40-50µm
Other Metal	: 8500ppm



Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
Si ₃ N ₄	140.28 g/mol	2.2-3.5 g/cm ₃	1900 °C

Applications

- Rotating bearing balls and rollers
- Cutting tools
- Engine moving parts — valves, turbocharger rotors
- Engine wear parts — cam followers, tappet shims
- Turbine blades, vanes, buckets
- Metal tube forming rolls and dies
- Precision shafts and axles in high wear environments
- Weld positioners

ISO 9001:2015
 CERTIFIED COMPANY



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