

BORON CARBIDE POWDER

Stock No: NS6130-05-584

B4C



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Boron Carbide Powder

Boron carbide since 1940 and today is one of the world's largest producers of boron carbide products. Boron Carbide (B₄C) is one of the hardest man made materials available. Boron Carbide is a super hard abrasive material, next only to diamond and cubic boron nitride in hardness. Above 1300°C it is even harder than diamond and cubic boron nitride. It has a 4-point flexural strength of 50,000-70,000 psi and a compressive strength of 414,000 psi, depending on density. Boron Carbide also has a low thermal conductivity (29-67 W/mK) and has electrical resistivity ranging from 0.1-10 ohm-cm. Boron Carbide is ideal for a wide variety of applications including blasting nozzles, body armor, ceramic & metal-matrix composites, aerospace applications, refractory anti-oxidant, lapping, honing stones, nuclear technology, ultrasonic machining, and many others.

Quick Facts

Product	:	Boron Carbide Powder
Color	:	Gray/black Powder
Stock No	:	NS6130-05-584
CAS	:	12069-32-8
Purity	:	>99.9%
APS	:	<50µm

Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
B ₄ C	55.25 g/mol	2.51 g/cm ₃	2450 °C

Applications

- Aerospace, Antioxidant (Example: batteries)
- Ballistic Armor, Blasting Nozzles, Body Armor
- Ceramic Additive, Grinding, Hot pressing
- Military Armor Applications
- Refractory and Ceramic Industry Applications
- Tool and Die Fabrication

ISO 9001:2015
CERTIFIED COMPANY



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