

General Properties

Boron nitride is a man-made ceramic material prized for its excellent thermal and chemical stability and lubricating properties. Our boron nitride powder can be used in products ranging from high-temperature lubricants to cosmetics.

Characteristics

- High electrical resistivity.
- Good thermal conductivity.
- High-temperature stability.
- Oxidation-resistant:
 - Up to 850 °C in air.
 - Up to 1400 °C under vacuum.
 - Up to 2200 °C under inert atmosphere.
- High chemical inertness.
- Corrosion resistant against many molten metals.
- Excellent lubricant.
- Non-toxic

Applications

- Electrical insulator.
- Release agent.
- High-temperature lubricant.
- Hexagonal BN used to manufacture CBN.
- Additive in cosmetics.
- Filler for silicone and resins to improve thermal conductivity.

Properties

Short name	Crystal Structure		Typical Chemical Properties						Typical Physical Properties			
	Structure	Crystal Size μm	O%	C%	B%	Ca%	B2O3	Moisture	BET	TD	D50	D90
M120	Hexagonal	<2	<2	<0.1	>42.5	/	<1.2	<0.7	10~20	0.17~0.3	4~6	<14
B150	Hexagonal	<2	<1.5	<0.1	>42.5	/	0.5-1	<0.7	8~20	0.17~0.3	4~6	10~14
P050	Hexagonal	>2	<1.5	<0.05	>42.5	/	<0.4	0.3~0.4	4~6	0.1~0.2	5~10	10~20

NOTE: This data shows typical values and does not represent a specification.

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