

**TECHNICAL DATA SHEET**

<b>Name</b>	Boron nitride
<b>CAS</b>	10043-11-5
<b>Molecular formula</b>	BN
<b>Molecular weight</b>	24.82
<b>EINECS</b>	233-136-6

**SPECIFICATION :**

<b>Item</b>	<b>Result</b>
<b>Crystal</b>	Hexagonal
<b>BN (%)</b>	99
<b>B<sub>2</sub>O<sub>3</sub> (%)</b>	<0.5
<b>C (%)</b>	<0.1
<b>Total Oxygen (%)</b>	<0.8
<b>Si,Al, Ca (%)</b>	<30ppm each
<b>Cu, K, Fe, Na,Ni, Cr (%)</b>	<10ppm each
<b>D<sub>50</sub></b>	2-4 $\mu$ m
<b>Crystal Size</b>	500nm
<b>BET (m<sup>2</sup>/g)</b>	12-30
<b>Tap Density (g/cm<sup>3</sup>)</b>	0.1-0.3

**Packaging :**

25kgs bag or pack as customer requirements.

**Application:**

1. Boron nitride is used to make refractory materials, furnace insulation materials, and also used in electronics, machinery, aviation and other industries
2. Boron nitride has many excellent properties and is widely used in insulators for high-voltage and high-frequency electricity and plasma arcs, coatings for automatic welding high-temperature resistant frames, materials for high-frequency induction furnaces, solid phase admixtures for semiconductors, structural materials for atomic reactors, packaging materials to prevent neutron radiation, radar transfer windows, radar antenna media and rocket engine components. Due to its excellent lubricating properties, it is used as a high-temperature lubricant and a demoulding agent for various models. Molded boron nitride can be used to make high-temperature resistant crucibles and other products. It can be used as a superhard material, suitable for geological exploration, oil drilling drill bits and high-speed cutting tools. It can also be used as a metal processing grinding material, with the characteristics of low processing surface temperature and few surface defects of components. Boron nitride can also be used as an additive for various materials. Boron nitride fiber made from boron nitride is a medium-modulus high-functional fiber. It is an inorganic synthetic engineering



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material that can be widely used in the chemical industry, textile industry, aerospace technology and other cutting-edge industrial sectors.

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