

## BORON NITRIDE POWDER BN HQ

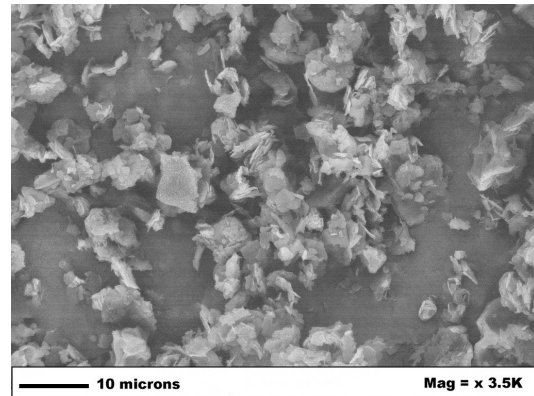
### Properties

Boron Nitride is a white powder with a hexagonal crystal structure similar to graphite. BN HQ has excellent thermal conductivity and maintains its properties at very high temperatures. It has a high electrical resistivity and is chemically inert. Its versatile properties are demonstrated in brake systems, aerospace, mould-release, refractory metals, aluminium extrusion / foundries and as thermo-fillers in plastics.

### Applications

- Release agents
- Lubricant materials
- Paints and pastes as a protective layer against molten metals.
- Electrical insulators

### Structure



Boron Nitride achieves its excellent lubricating properties due to the movement of these plate-like particles against one another.

### Product Information

Property	Data
Colour	White
B <sub>2</sub> O <sub>3</sub> – max	0.7 %
Carbon – max	0.05 %
Moisture – max	0.15 %
Particle size – D50 (by Malvern)	4.5 – 6.5 µm
Particle size – D90 – max	13 µm
Surface Area (BET)	10 - 20 m <sup>2</sup> /g
Tap density	0.25 – 0.35 g/cm <sup>3</sup>
Maximum Temperatures	900°C – in an oxidizing atmosphere 1700°C – in an inert atmosphere
Theoretical Density	2.27 g/cm <sup>3</sup>

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

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