

**NS6130-02-214**

# CUBIC BORON NITRIDE

## Nanoparticles

### Quick Facts

Product	:	Cubic Boron Nitride Nanoparticles
Stock No	:	NS6130-02-214
Color	:	Grey
Molecular Formula	:	BN
Form	:	Powder

**Purity**  
99%

Boron nitride exists in multiple forms that differ in the arrangement of the boron and nitrogen atoms, giving rise to varying bulk properties of the material. Carbon boron nitride (c-BN) does not exist in nature but it is a novel substance created by human. It is synthesized under high pressure and high temperature just like diamond counterpart and has the wurzite crystal structure. It is a very good electrical insulator and offers very high thermal conductivity and good thermal shock resistance.

### Application

- ✓ High thermal conductivity
- ✓ Excellent wear resistance
- ✓ Good chemical inertness
- ✓ CVD crucibles and microwave tubes



**BN**



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