



# GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET Boron Nitride Powder (BN)

### Typical Chemistry

	HBN-1	HBN-2	HBN-3
Boron Nitride (BN)	≥ 98 %	≥ 99 %	≥ 99.3 %
Boron Trioxide (B <sub>2</sub> O <sub>3</sub> )	≤ 1.3 %	≤ 0.5 %	≤ 0.2 %
Oxygen (C)	≤ 1.5 %	≤ 0.8 %	≤ 0.5 %
Carbon (C)	≤ 0.5 %	≤ 0.3 %	≤ 0.2 %

### Typical Properties

	HBN-1	HBN-2	HBN-3
d50 (µm)	1.5-2.0	1.5-2.0	1.5-2.0
SSA (m <sup>2</sup> /g)	10-20	10-20	10-20
Tap Density (g/cm <sup>3</sup> )	0.2-0.4	0.2-0.4	0.2-0.4

### Description:

GNP Graystar's Boron Nitride has a hexagonal crystal structure, allowing for a loose, lightweight lubricative powder that can easily absorb moisture. Hexagonal Boron Nitride (HBN) shows high thermal conductivity, as well as excellent corrosion resistance and chemical inertness.

### Applications:

GNP Graystar's Boron Nitride powder is used primarily in electronic thermal management applications and as a lubricant. It is also used in ceramic manufacturing, automotive and aerospace applications, thermal sprays, cosmetics, and more.

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