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Boron Nitride Powder for Use in Research and Industry

Boron Nitride powder produced by ZYP Coatings' unique-continuous process is ultra-high-purity. The BN powder can be added to many plastics, potting compounds, oils, greases, and other materials to provide enhanced thermal conductivity and dielectric strength. As a dry-powder lubricant, BN powders also give anti-squeak/anti-squeal noise reduction. BN is regularly used to aid forming, reduce sticking, and provide release after molding/casting operations. The uses for BN are unmatched as a ceramic material.

Key Attributes

- Highly Lubricious, Even in Vacuum
- Chemically Inert with High Refractoriness
- High Electrical Resistivity and High Dielectric Strength with Low Dielectric Constant
- High Thermal Conductivity
- Transparent to Microwaves
- Low Thermal Expansion
- Non-Toxic

Ideal Use

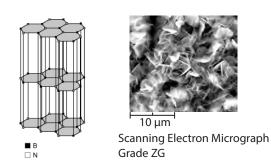
- Thermally-Conductive Inert Filler-Additive
- Barrier Layer with Graphite
- Anti-Stick/Anti-Sieze
- Providing Release
- Dry Lubricant

Use Notes

- 1. Use in well-ventilated area.
- 2. Powder is "fine": avoid generating dusts.

Safety Information

- Consult SDS before use.
- Avoid breathing of dusts.
- For Industrial use only.



The crystal Structure of Hexagonal Boron Nitride leads to plate-like crystal grains that provide excellent lubrication for BN powders

Specifications for Grade ZG

Boron Nitride Content over 99.9%	6
Average Particle Size (micrometers) 6-8	3
d10 = 1.4 microns	5
d50 (median) = 7.4 microns	5
d90 = 11.8 microns	S
Surface Area by BET (sq.m/g) 3 typica	
Tap Density (g/cc) 0.23	3
Water Soluble Boron Oxide Below 0.1%	ó
Color White	5
Max Use Temperature Air 1832 F / 1000 C	2
Vac 2552 F / 1400 C	2
lnert 3272 F / 1800 0	2
Use Atmosphere Al	I
H F R Ratings 1-0-0)

Sizes and colors

Product is fine white powder.

Standard Size: 1 kilogram bag

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