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BN HPB

Highly-loaded, Highest Purity, Boron Nitride (BN) Coating

BN HPB is a relatively-soft, washcoat-type of Boron Nitride (BN) coating that provides high-purity (over 99% pure) BN after firing. The coating is usable in vacuum to >1400C (>2552F) and inert atmospheres to >1800 C (>3272F). This coating should NOT be used in air atmospheres.

BN HPB is ready-to-use or can be diluted with water as desired.

Key Attributes

- Provides non-stick, non-wetting, release
- Applies like housepaint (brush, dip, air-spray)
- Low viscosity, yet highly loaded with BN
- Water-based, safe and easy-to-clean-up

Ideal Use

- Coating ceramics, metals, graphite and composite materials for release/lubrication
- Barrier layer to prevent reaction/interaction at high-temperatures in vacuum/inert conditions
- Hot-pressing/forming of parts
- When maximum purity of Boron Nitride is required

Use Notes

1. Resuspend if needed. Can dilute with water.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one layer by brush, dip, or air spray. Apply other layers if needed, drying after each layer.
4. Thoroughly dry before use.

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For Industrial Use only.



Specifications

Active Ingredient	Boron Nitride
Max Use Temperature	Inert 3272 F / 1800 C Vac 2552 F / 1400 C Air = NOT RECOMMENDED
Use Atmosphere	Vacuum or Inert
Fired Composition	>99% BN
Liquid Carrier	Water
Binder Phase	Cellulosic
Active Ingredient Level	Highly Loaded
Brookfield Viscosity (cps)	<100
Specific Gravity	1.24
Color	White
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	7
H F R Ratings	1-0-0
Substrate Use	All

Sizes and colors

BN HPB is a white colored paint.

Standard Size: 1 gallon Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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