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## BN High Purity

### Highest Purity Boron Nitride (BN) Coating

BN High Purity 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 1400 C (2552 F) and inert atmospheres to 1800 C (3272 F). This coating should NOT be used in air atmospheres.

#### Key Attributes

- Provides, in a water-based paint, the great properties of BN– low electrical conduction; high thermal conduction (like stainless); prevent reactions/interactions between materials; superior release/nonwetting.
- Applies like housepaint (brush, dip, air-spray)
- Easily applied by air spraying on to hot or cold crucibles and molds
- Great with molten metals, glasses, fluxes, slags
- Safe, Water-Based

#### Ideal Use

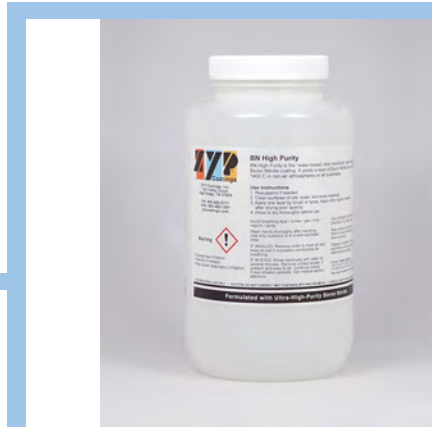
- Crucibles and Molds
- Anti-stick/Release
- Barrier Layer

#### Use Notes

1. Resuspend if needed. Can dilute with water.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply 1-3 layers by brush dip or air-spray like ordinary house paint, drying after each layer
4. Allow to dry thoroughly at room temperature before use.

#### Safety Information

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



#### Specifications

Active Ingredient	BN
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	Fully Loaded
Brookfield Viscosity (cps)	600-1100 @3/60
Specific Gravity	1.06
Color	White
Shelf Life (months)	>12
Coverage (ft <sup>2</sup> /gal)	100 to 400
Coating pH	7-8
H F R Ratings	1-0-0
Substrate Use	All

#### Sizes and colors

BN High Purity is a white colored paint.

Standard Size: 1 gallon Nalgene container

#### CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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