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## ATP's line of Boron Nitride Coatings

ATP's advanced line of boron nitride coatings are **water-borne**, cost-effective solutions for those in hot working environments. Over **25 years of experience and innovation** has led to the development of ATP Boron Nitride coatings and their unique performance capabilities.

ATP boron nitride coatings have been engineered to meet the demands of those in the following fields:

- melting
- casting
- forging
- rolling
- drawing
- extruding
- pressing
- forming



ATP boron nitride coatings dry to a smooth film providing ultimate lubrication, non-wetting, erosion-resistant, high-wear resistant, and release properties. ATP boron nitride coatings are also useful for high electrical resistance and provide good thermal conductivity. Our coatings are custom-formulated and **VOC free\*** to provide economical and environmentally-friendly options to maximize workability and performance with the end-user in mind.

*\*does not include ATP-R20 aerosol version*

Advanced Technical Products  
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Product	ATP-R10	ATP-R10B	ATP-R11	ATP-R11B	ATP-R12	ATP-R20	ATP-R33
Color	White	Blue	White	Blue	White	White	White
Vehicle	Water	Water	Water	Water	Water	Organic Solvents	Water
Binding System	Bentonite	Bentonite	Alumina	Alumina	Bentonite	Bentonite	Silicate
% Solids	10-20%	10-20%	15-25%	15-25%	30-50%	n/a	15-25%
Relative Hardness	4	4	2	2	4	3	1
Application/Uses	<b>Paint/Dip</b> Economical Release Protective Coating Excellent Lubrication Launders & Runners Auto-Pour Ladles Troughs & Tubes Funnels & Spouts Filter Bowls, Boxes Caster Tips Dross Press Heads Electrical Heating Elements Weld Spatter	<b>Higher Visibility</b> Economical Release Protective Coating Excellent Lubrication Launders & Runners Auto-Pour Ladles Troughs & Tubes Funnels & Spouts Filter Bowls, Boxes Caster Tips Dross Press Heads Electrical Heating Elements Weld Spatter	<b>Paint</b> Release Forging Excellent Lubrication Refractory Protection Launders & Runners Auto-Pour Ladles Troughs & Tubes Funnels & Spouts Filter Bowls, Boxes Caster Tips Dross Press Heads Electrical Heating Elements Weld Spatter	<b>Higher Visibility</b> Release Refractory Protection Excellent Lubrication Launders & Runners Auto-Pour Ladles Troughs & Tubes Funnels & Spouts Filter Bowls, Boxes Caster Tips Dross Press Heads Electrical Heating Elements Weld Spatter	<b>Paste Version</b> Release Protective Coating Excellent Lubrication Melting & Casting Al, Mg, & Zn Ceramic Hot Pressing Decanning for Hot Isostatic-Pressing Composite Forming Glass Forming Superplastic Forming of Titanium Diffusion Bonding Extrusions Braze Stop-off	<b>Aerosol Version</b> Release Forging Protective Coating Excellent Lubrication Hot-Pressing Glass Forming Weld Spatter Forging/Extrusion Superplastic Forming Electrical Heating Elements	<b>Hard Coat</b> Release Protective Coating Excellent Lubrication Immersion Tubes Metal Troughs, Molds Ladles, Skimmers Dross Buggies Shot Screens Stalk Tubes Funnels Electrical Heating Elements

## GENERAL INFORMATION

**Use Temperatures:** Oxidizing 1800°F (982°C)  
Vacuum 2550°F (1399°C)  
Inert 3300°F (1816°C)

**Electrical Resistivity of:**

**Boron Nitride Component** > 1 x 10<sup>15</sup> ohm-cm - typical

**Coverage Area:** ATP-R10, -R10B, -R33 approx. 300-600 ft<sup>2</sup>/gal  
ATP-R11, -R11B approx. 400 ft<sup>2</sup>/gal

**Available Volumes:** 1-pint  
1-quart  
1-gallon pail  
5-gallon pail  
\*aerosol version available in 12 oz. can or packages of 6x 12 oz. cans  
\*larger volumes available upon request

**Shelf Life:** in excess of one year

**Storage:** stored indoors in the original unopened and undamaged container, in a dry place at

