



# ATP<sup>®</sup>-R10B2

**water-based, boron nitride coating with blue coloring for added visibility**

## Description

A water-based, economical boron nitride anti-stick coating formulated to protect metals, glass, ceramics, composites, and plastics

## Performance Characteristics

- effective temperature range
  - oxidizing atmosphere – ambient-1800° F (982° C)
  - vacuum– ambient-2550° F (1399° C)
  - inert – ambient-3300° F (1816° C)
- coverage area = approx. 300-600 ft<sup>2</sup>
- application/uses:
  - release coating
  - launders and runners
  - auto-pour ladles
  - troughs and tubes
  - funnels and spouts
  - filter bowls, boxes
  - caster tips
  - dross press heads
  - electrical heating elements
  - weld spatter
- formulated for brushing application (can be adjusted for dipping or spraying by diluting with water)
  - typically:
    - for dipping, dilute 1:1 (coating:water)
    - for spraying, dilute 2.5:1 (coating:water)

## Recommendations for Use

- thoroughly suspend and mix before use
- all surfaces must be free of dirt, oil, grease, metal oxides, and other materials
- coating thickness depends on the time and temperature of exposure (generally, the higher the temperature and longer exposure, the thicker the coating should be applied)
- a wet film thickness of 1 mil (25 microns) should be optimal
- ensure bottom coat is thoroughly dried when applying multiple coats
- water-based coatings need ample time to completely dry before heat exposure (can be applied over preheated substrate to accelerate drying time)

## Typical Properties

Binding System	bentonite
Relative Hardness	4
pH	7.0-8.0
% Solids	15-25%
Vehicle	water

Viscosity (@ 25°C) as Supplied (Brookfield, 20 rpm)	400-800 cP
Weight/Gallon (lb/gal)	9.10 ± 0.25
Specific Gravity	1.06-1.12
Color	pale blue
Shelf Life (months)	>12

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## Product Safety

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health, and environmental information.

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Advanced Technical Products Supply Co., Inc. requests that the customer read, understand, and comply with the information contained in this publication and the current MSDS(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

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## Storage and Handling

ATP®-R10B2 should be stored indoors in the original unopened and undamaged container, in a dry place at a temperature not exceeding 85° F (30° C). Exposure to direct sunlight should be avoided.

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**Advanced Technical Products Supply Co., Inc.**  
6186 Centre Park Drive  
West Chester, OH 45069  
USA

Telephone: 1.513.851.6858      Facsimile: 1.513.851.6824

info@advancedtechnicalprod.com

Visit our website:

www.advancedtechnicalprod.com

