

# ATP®-R70

## water-based, boron nitride release coating

### 水基氮化硼涂层

#### ● Description 描述

A water-based, economical boron nitride anti-stick coating formulated specifically the aluminum extrusion process.

一种专为铝挤压工艺设计的水基、经济高效的氮化硼防粘涂层。

#### ● Performance Characteristics 性能特征

##### ➤ effective temperature range 有效的温度范围

oxidizing atmosphere -ambient- 1800° F (982° C)	氧化环境室温- 1800°F(982°C)
Vacuum-ambient -2550° F (1399° C)	真空环境室温-2550°F (1399° C)
inert -ambient -3300° F (1816° C)	惰性气体室温-3300°F (1816° C)

##### ➤ coverage area = approx. 300-600 ft<sup>2</sup>

覆盖面积=约 300 - 600 平方英尺

##### ➤ application and attributes 应用及属性:

Release coating to prevent aluminum billets from sticking to the extruder

防粘涂层，用于防止铝坯料粘附在挤压机上

Prevent Fraying or flanging of aluminum billet

防止铝坯料起毛刺或翻边

Increased die life

延长模具寿命

Enhanced release capabilities compared to graphite

与石墨相比，脱模能力增强

Can be applied to dirty, greasy surfaces

可涂覆于脏污、油腻的表面

Better shape finish

更好的表面光洁度

Inert, water based

惰性的、水基的

##### ➤ formulated for brushing application (can be adjusted for dipping or spraying by diluting with water) 适用于刷涂（可通过加去离子水稀释调整用于浸涂或喷涂——切勿过度稀释）

for dipping, dilute 1:1 (coating:water)

浸涂时，按 1:1 的比例稀释（涂料：水）

for spraying, dilute 2.5:1 (coating:water)

喷涂时，按 2.5:1 的比例稀释（涂料：水）

## ● Recommendations for Use 使用指导

- thoroughly suspend and mix before use  
使用前应充分搅拌均匀
- 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)  
涂层厚度取决于暴露时间及温度(一般温度越高，暴露时间越长，涂层越厚)
- a wet film thickness of 1 mil (25 microns) should be optimal  
最佳湿膜厚度为 1 mil
- ensure bottom coat is thoroughly dried when applying multiple coats  
多层涂覆时，应确保底层完全干燥
- water-based coatings need ample time to completely dry before heat exposure (can be applied over preheated substrate to accelerate drying time)  
水基涂料需完全干燥后方可入炉(可涂覆于预热后的基材上以加速干燥)

## ● Typical Properties 属性

Binding System 粘结剂	bentonite 膨润土 surfactant 表面活性剂
Relative Hardness 硬度	4
pH	7.0-8.0
% Solids 固体含量	10-20
Vehicle 溶剂	Water 水
Viscosity (@ 25°C) as Supplied 粘度(cps)	1000
Weight/Gallon (lbs) 重量(磅/加仑)	9.25 ±0.2
Color 颜色	White 白色
Shelf Life 有效期	2 years 年

## ● Product Safety 产品安全

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

在处理本公告所列材料前，应阅读并了解 SDS（安全数据表）以获得关于个人防护装备、安全、健康和环境信息等额外信息。

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## ● Storage and Handling 储存

ATP®-R70 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.

ATP®-R70 应存放于室内,保持原包装未开封且完好无损,存放环境需干燥且温度不超过 85° F (30° C)。应避免阳光直射。

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