



# ATP®-931

Protective coating engineered to perform in various hot working operations

用于各种热加工操作的防护涂层

Standard number 标准号: YAP-ATP-Glasslub-2019

## ● Description 描述

A water-based, ceramic coating formulated to protect tool steels, alloy grades, nickel alloys, carbon grades, stainless steels, copper alloys, & cobalt alloys against oxide scale, oxidation, & decarburization

一种专为保护工具钢、合金钢、镍合金、碳钢、不锈钢、铜合金及钴合金免受氧化皮、氧化及脱碳影响而研制的水基陶瓷涂层。

## ● Performance Characteristics 性能特征

- effective temperature range 800-2200° F (427-927° C)  
有效温度范围 800-2200° F (427-927° C)
- controls decarburization and oxidation  
防脱碳、抗氧化
- retards formation of oxide scale up to 70%  
氧化皮生成率可降低 70%
- demonstrates heat retention properties for improved performance in hot working operations  
优良的保温性以提高热加工操作的性能
- reduces forged or rolled-in scale  
减少锻造或轧制过程中产生的氧化皮。
- outstanding coverage & performance in one coat  
单次涂覆即可实现卓越的覆盖性能
- demonstrates exceptional green strength upon proper drying to withstand cracking, chipping, and peeling  
经适当的干燥后，具有良好的生坯强度，能承受开裂、切削、剥落等
- Can be sprayed onto hot metal  
可喷涂于炽热金属表面
- desirable freeze-thaw properties  
理想的抗冻融性能

## ● Recommendations for Use 使用指导

- thoroughly suspend and mix before use  
使用前充分搅拌均匀
- metal surfaces must be free of dirt, oil, grease, metal oxides, and other materials  
金属表面不得有污垢、油污、金属氧化物或其它物质



- 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和温度(一般温度越高, 暴露时间越长, 涂层越厚)
- a wet film thickness of  $2 \pm 1$  mil should be optimal  
最佳湿膜厚度为  $2 \pm 1$  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 entering furnace (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 典型属性

PH	7.5-8.5
% Solids 固体含量	61.0-65.0
Vehicle 溶剂	Water 水
Viscosity (@ 25°C) as Supplied 粘度 (CPS)	3000-6000
Weight/Gallon (lbs) 重量 (磅/加仑)	$12.9 \pm 0.25$
Specific Gravity 比重	1.38-1.41
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。

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.

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## ● Storage and Handling 存储及处理

ATP<sup>®</sup>-931 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<sup>®</sup>-931 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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For further information and more product details, packaging and safety data sheets, contact us as below:

欲了解更多产品信息、包装和安全数据表，请与我们联系

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