

# ATP®-641

## protective coating to control oxide scale

### 抗氧化保护涂层

#### ● Description 描述

A water-based, ceramic coating formulated to protect stainless, low alloy, & carbon grade steels against oxide scale, oxidation, and decarburization.

一种用于保护不锈钢、低合金钢及碳钢的抗氧化、防脱碳、水基陶瓷涂层。

#### ● Performance Characteristics 性能特征

- effective temperature range 1000-2300° F (538- 1260° C)  
有效温度范围 1000-2300° F (538- 1260° C)
- Minimizes formation of oxide scale by 70%  
氧化皮生成率可降低 70%
- reduces surface defects such as forged or rolled-in scale  
减少表面缺陷，如锻造及轧制过程中产生的表面氧化皮
- reduces secondary finishing operations  
减少二次精加工作业
- spalls on cooling to leave oxide scale-free surface  
冷却时表面无氧化
- demonstrates exceptional green strength upon proper drying to withstand cracking, chipping, peeling, etc.  
在适当的干燥条件下，具有良好的生坯强度，能够承受开裂、切削、剥落等。
- excellent paint ability; formulated for brushing application (can be adjusted for dipping or spraying by diluting with water – do not thin coating too much)  
优良的涂覆性能;适用于刷涂(可通过用水稀释调整为浸涂或喷涂-切勿过度稀释)
- desirable heat retention properties for improved hot working operations  
优良的保温性以提高热加工操作的性能

#### ● 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、金属氧化物及其它物质
- 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  $6\pm 3$  mil should be optimal  
最佳湿膜厚度为  $6\pm 3$  mil
- ensure bottom coat is thoroughly dried when applying multiple coats  
多层涂覆时,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)  
水性涂料在入炉前需要足够的时间完全干燥(可以涂在预热过的基材上以加速干燥)

## ● Typical Properties 属性

pH	6.0-9.0
% Solids 固体含量	57.0 -61.0
Vehicle 溶剂	Water 水
Viscosity (@ 25°C) as Supplied 粘度 (CPS)	5000-9000
Weight/Gallon (lbs)重量 (磅/加仑)	$13.75 \pm 0.25$
Specific Gravity 比重	1.62-1.68
Color 颜色	taupe/dark brown 灰褐色/深棕色
Shelf Life 有效期	2 year 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 存储和搬运

ATP®-641 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®-641 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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