



ATP®-654

protective coating engineered to perform in various hot working operations

热加工防护涂层

● 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, & titanium alloys against oxide scale, oxidation, & decarburization.

一种用于保护工具钢、合金钢、镍合金、碳钢、不锈钢、铜合金、钴合金及钛合金等金属以达到抗氧化、防脱碳的耐高温水基陶瓷涂层。

● Performance Characteristics 性能特征

- effective temperature range 1500-2100° F (816-1149° C)
有效的温度范围 1500-2100° F (816-1149° C)
- controls decarburization and oxidation
抑制脱碳及氧化
- retards formation of oxide scale by 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的操作性能
- 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, peeling, etc.
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
- excellent paintability; formulated for brushing application (can be adjusted for dipping or spraying by diluting with water – do not thin coating too much)
卓越的涂覆性，专为刷涂设计（可通过加水稀释调整用于浸涂或喷涂——切勿过度稀释涂料）
- desirable freeze-thaw properties
理想的冻融性



● 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 12 ± 3 mil should be optimal
最佳湿膜厚度为 12 ± 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)
水基涂料需在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

pH	9.0-10.0
% Solids 固体含量	59± 0.5
Vehicle 溶剂	Water 水
Viscosity (@ 25°C) as Supplied 粘度(CPS)	2800-7000
Weight/Gallon (lbs)重量(磅/加仑)	13.0± 0.5
Specific Gravity 比重	1.52-1.62
Color 颜色	black 黑色
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®-654 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®-654 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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