



ATP[®]-40

**protective coating engineered to perform
in various hot working operations**

Description

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

Performance Characteristics

- effective temperature range 1500-2400° F (816-1315° C)
- controls decarburization and oxidation
- retards formation of oxide scale by 70%
- demonstrates heat retention properties for improved performance in hot working operations
- reduces forged or rolled-in scale
- outstanding coverage & performance in one coat
- demonstrates exceptional green strength upon proper drying to withstand cracking, chipping, peeling, etc.
- excellent paintability; formulated for brushing application (can be adjusted for dipping or spraying by diluting with water – do not thin coating too much)
- desirable freeze-thaw properties

Recommendations for Use

- thoroughly suspend and mix before use
- metal 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 7 ± 2 mL should be optimal
- ensure bottom coat is thoroughly dried when applying multiple coats
- water-based coatings need ample time to completely dry before entering furnace (can be applied over preheated substrate to accelerate drying time)

Typical Properties

pH	9.0-10.0
% Solids	59 \pm 0.5
Base	Water
Viscosity (@ 25°C) as Supplied	2,800-7,000 CPS
Weight/Gallon (lbs)	13.0 \pm 0.5 lbs

Specific Gravity	1.52-1.62
Color	off-white
Shelf Life	~1 year

Product Safety

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.

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 SDS(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.

Storage and Handling

ATP-40 should be stored indoors in the original unopened and undamaged container, in a dry place at a temperature not exceeding (40⁰ C). Exposure to direct sunlight should be avoided.

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