



Technical Process Bulletin

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TURCO® AVIATION

FREE-RINSING HOT SPRAY AND IMMERSION CLEANER FOR ALUMINUM AND OTHER REACTIVE METALS

DESCRIPTION:

TURCO AVIATION is a white granulated alkaline compound formulated for the removal of mill inks, oils, shop soils and other difficult-to-remove soils from aluminum, steel, copper, magnesium, cadmium and nickel alloys.

TURCO AVIATION is formulated to be used in spray or immersion systems. It rinses quickly and freely.

FEATURES:

TURCO AVIATION offers these features:

1. Nonflammable in concentrate or dilute form
2. Readily soluble in warm water
3. Nonfoaming at recommended concentrations and temperatures
4. Easy to control solution by simple titration
5. Readily rinses from parts with hot water
6. Designed to be used with air or mechanically agitated tanks

USE INSTRUCTIONS:

Equipment: Tanks and associated equipment may be fabricated from mild steel or stainless steel.

Spray Systems:

Mixing: Add TURCO AVIATION to warm water at the ratio of 7.5 to 15 g/L of water. Clean parts at 70° to 75°C for 30 seconds to 2 minutes at 20 to 30 psi

Rinsing: Rinse with hot water (60° to 70°C).

Immersion Systems:

Mixing: Add TURCO AVIATION to warm water at the ratio of 30 to 60 g/L of water. Use air or mechanical agitation. Clean parts at 75° to 85°C for 2 to 10 minutes.

Rinsing: Rinse with hot water at 75° to 85°C. Overflowing rinse or spray rinse is preferred.

CONTROL:

Apparatus:

1. pH Meter
2. 205402 - Beaker, 250 mL
3. 205943 - Pipet, 10 mL
4. 205700 - Buret, 25 mL

Reagents:

1. 205220 - Titrating Solution 20 (0.1N Sulfuric Acid)
2. 205004 - Indicator 4 (Methyl Orange) if pH meter is not available

Procedure:

1. Obtain a sample from the tank and cool to room temperature.
2. Pipet 10 mL sample into a 250 mL beaker containing 100 ml DI water.
3. Add 3 to 6 drops of Indicator 4 if pH meter is not available.
4. Titrate with TS 20 to pH 4. Titrate with TS 20 until the solution changes from yellow to reddish orange when using the Indicator 4.

Calculations:

mL of TS 20 X 0.177 = oz/gal Turco Aviation

DISPOSAL INFORMATION:

Dispose of spent solution per local, state and regional regulations. Refer to HENKEL SURFACE TECHNOLOGIES MATERIAL SAFETY DATA SHEET for additional disposal information.

WARNING! Causes eye irritation. May cause skin irritation. Harmful if swallowed.

TURCO AVIATION contains silicate. Avoid contact with eyes, skin and clothing. Do not take internally. Use with adequate (equivalent to outdoor) ventilation.

Protective clothing, such as a chemical face shield or goggles and gloves, made from alkali resistant materials should be worn when using and handling this product. A NIOSH-approved respirator should be worn when handling dry powder.

Transport and store in closed containers at temperature less than 60°C.

Before using this product refer to container label and HENKEL SURFACE TECHNOLOGIES MATERIAL SAFETY DATA SHEET for additional precautionary, handling and first aid information.

NOTICE:

The above information and recommendations concerning this product are based upon our laboratory tests and field use experience with this or similar products. However, since conditions of actual use are beyond our control, any recommendations or suggestions are made without warranty, express or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage, or injury, direct or consequential, arising out of the use of this product.

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