



TURCO[®] LIQUID ALKALINE RUST REMOVER (T-4181-L)

JET ENGINE CLEANING COMPOUND

DESCRIPTION:

TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) is an amber, liquid compound formulated to remove rust, paints, lube oils, drawing pastes, cutting oils and protective oils from ferrous alloys by immersion methods.

TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) is highly alkaline and should not be used on tin, aluminum, zinc or any alloy containing these metals as the major constituents.

TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) will not attack alloys, magnesium alloys, stainless steels, brass, bronze or Monel alloys when used as directed. TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) can be used on titanium alloys when diluted 12-15% with water at 160°F (71°C) to 170°F (76°C).

FEATURES:

TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) offers these features:

1. Approved by Pratt & Whitney, General Electric, and Rolls Royce.
2. Supplied in liquid form.
3. Can be dispensed by automatic equipment.
4. Readily soluble in tap water at recommended concentrations.
5. Concentration is controlled by simple titration.
6. Readily rinses from metal with tap water.
7. Nonflammable.
8. Does not require post neutralization rinse.

USE INSTRUCTIONS:

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

Precleaning: Heavily soiled parts should be precleaned to remove excessive oils and shop soils to reduce excessive contamination of the TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) bath. Your Turco Sales Engineer can recommend a suitable pre-cleaner based upon the type of soils involved and your precleaning operations.

Charging Tanks: TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) may be transferred to tank and used as received or diluted 12-15% with water. If it is to be diluted, charge tank with 3/4 the

required amount of cool clean water. Start mechanical agitation and slowly add TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) to agitated tank. Add balance of cool clean water to operating level.

Processing Parts: Maintain tank at 180°F (82°C) to 200°F (93°C). Immerse parts completely for 15 to 60 minutes with mechanical agitation. Rinse with warm to hot water, overflowing rinse is preferred.

NOTE: When processing titanium alloys, dilute with 12-15% with water. Operate tank from 160°F (71°C) to 170°F (76°C) for 15 to 30 minutes. Higher concentrations and higher temperature may attack titanium alloys.

CONTROL:

A laboratory test procedure is available upon request.

DISPOSAL INFORMATION:

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

DANGER! Contact may cause severe burns to skin and eyes.

TURCO LIQUID ALKALINE RUST REMOVER (T-4181-L) contains sodium hydroxide. 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, gloves, boots and apron made from alkali resistant materials should be worn when using and handling this product. A NIOSH-approved respirator should be worn during mist conditions.

Add product to cold water with care to prevent local pockets of steam. Keep containers sealed when not in used. Transport and store in closed containers below 130°F (54°C).

Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can be fatal. Follow appropriate tank entry procedures (see ANSI Z117.1-1977).

Before using this product refer to container label and TURCO 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. 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.

Rev.9/96(Sup.10/87) FG: 01567
TDB #31