



T.C. 772 Acidic Cleaning Compound

PRIMARY APPLICATION

T.C. 772 is a liquid acidic compound designed for removing light grease, oils, shop dirt, flux, rust, oxides and heat scale. It is also used for preparing metals for paint and for cleaning and conditioning aluminum prior to surface conversion processing. Another application, recommended by stainless steel manufacturers, is the use of T.C. 772 for cleaning stainless steel, removing direct and embedded soils and permitting uniform repassivation.

T.C. 772 meets the following United States Government Specifications: TT-C-490, Method VI; MIL-C-490A, Grade II, Type 5; MIL-M-10578B, Type I and MIL-C-46487 (Type II Finish).

CHEMICAL CHARACTERISTICS

Chemical composition

Physical form Bulk density Specific density

Odor Viscosity

Flash point (undiluted)
Effect of prolonged boiling
Hygroscopic tendency
Foaming tendency

Solubility

Recommended diluent

Rinseability Biodegradable Phosphate-free

Normal working concentration Normal operating temperature range

pH at working concentrations

Effect on metals

Mineral acid, solvents and surfactants

Light amber liquid 11.4 lbs/gal

1.370

Faintly aromatic

18 cps at 77°F (Gardner Bubble Vis.)

240°F (Cleveland Open Cup)

Loss of solvent

Slight

Moderate when circulated Severe when sprayed

Infinite Water

Good with hot water, fair with cold water

Yes No

2 to 50% by volume

140° to 160°F

under 2.0 at 70°F

Attacks steel, aluminum, zinc, brass, tin

and magnesium

APPLICATION PROCEDURE

By tank – Use at 5% to 25% by volume at 140 to 160 F followed by rinsing and drying. For wipe-on methods – Use at 10% to 50% by volume at room temperature. Apply with rags or brushes. Allow to soak for 2 to 10 minutes. Rinse and wipe dry.

NOTES ON USE

Normal precautions for handling acid and solvent-type materials should be observed in using T.C. 772. Tanks for T.C. 772 may be made of ceramic, wood, acid-proof brick, Karbate or stainless steels 304 ELC, 316 ELC or 347. Do not use lead or monel equipment, linings of rubber or the "brush-on" protective types. Heating coils should be of impervious carbon or graphite, such as Karbate Nos. 12 or 22 and Norcordal, or stainless steels 304 ELC, 316 ELC or 347. T.C. 772 will attack ordinary steel tanks. In food plants, the use of T.C. 772 is limited to maintenance work and operations other than in the food processing areas. Dilute solutions of T.C. 772 may tend to become turbid when heated but will regain clarity upon cooling. This turbidity does not in any way alter the working qualities of the product.

DISPOSAL

If required by local regulations, neutralize to a pH of 8 – 9 with soda ash or available spent alkaline solutions. Allow settling and siphoning off liquid, or pour slowly into sewer while diluting with water. Discard sludge.

PACKAGING

T.C. 772 is packaged in non-returnable containers as follows:

Large fiber poly drums

455 lbs. net

Small fiber poly drums

Case of four 1-gallon poly bottles

46 lbs. net

SHIPMENT

May be shipped by any common carrier. Freight classification is "Cleaning Compound, NOIBN, Liquid".

STORAGE

While freezing will not affect T.C. 772, for convenience of use it is advisable to store indoors or in moderate temperatures.

Effect of freezing None

Effect of aging Slight darkening Effect of long-term high temperature storage Slight darkening

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