



## Product Application Presentation

**Product Identifier:**

# TCI 126 H.D.

**Process Identifier:** ZERO VOC Semiconductive, non-foaming aqueous multi-metal liquid jet wash cleaner degreaser concentrate

### Product Introduction

**TCI 126 H.D.** is a water soluble clear liquid with a faint ether solvent odor. It is a blend of non-flammable solvents and inert residual corrosion inhibitors in alkaline medium.

### Process Introduction

**TCI 126 H.D.** is especially designed for removing protective oils used in storage and transit from multi-metals in a hot, mild alkaline medium through the mechanical spray action of a spray cabinet or tunnel washer. The purpose of this design formulation is to minimize residual ionic conductivity on electrical components such as motor windings, armatures, stators etc. after the cleaning process and thermal evaporation of moisture from the components to prevent galvanic corrosion by the elimination of salts. Ultra-Sonic is the final polishing step.



**STAINLESS STEEL HOT TANK  
JET PUMP RECIRCULATING  
IMMERSION WITH AGITATION**

### Process Specificity

Ideally **TCI 126 H.D.** is metered into distilled or deionized hot water (60-70°C) forming a non-conductive, non-foaming clear microemulsion at 1-3%. Cabinet washers used to clean dirty long time electrical service components are cleaned with a 10% solution (100 L of **TCI 126 H.D.** per 1000 L of water) subject to length of wash cycle by human judgement. The same product acts as a corrosion inhibitor at 3% (4 L of **TCI 126 H.D.** per 100 L of water) to protect machined parts for 1000+ hours against corrosion by atmospheric conditions as long as the parts are not rinsed off with raw water.

Soils effectively removed through high pressure turbulence (50-80 psi) include: dirt, corrosion protective coatings, oil, machine coolants, drawing compounds, grease, carbon, metallic particles, phosphate coatings and some paints. Position the parts as to avoid jet stream shadowing. The surface dirt is cleaned away by emulsification, dispersion, saponification and sludge settling or a combination of these mechanisms.

These devices remove the oil component from the parts to ensure excellent contact with the metal surface. For quality long life cleaning the solution strength should be maintained on a daily basis when the spray washer/ultrasonic is in continuous use.

### Solution Maintenance

The cleaning solution is maintained through simple addition of **TCI 126 H.D.** concentrate by a metering pump mounted on the drum and placed near the washer. Solution strength may be determined by human judgement, or titrating with a dilute acid to the phenolphthalein end point with **Test Kit 126** and checking the reference chart for the addition to be made.

### Solution Disposal

The clean chemical solution is biodegradable, but in accordance to the Ontario Ministry of the Environment and Climate Change *Regulation 347* and local municipal by-laws the cleaning process may have generated a hazardous or liquid industrial waste in which case it must be manifested and removed by a licensed carrier and be received by a licensed receiver accompanied by a Generator Registration Number.

Prior to sewer discharge contact **Tetra-Chem Industries Ltd.** for complete and complementary analytical tests in compliance with the regulations.

**Ontario certificate of approval  
A 800506**

**Packaging & Product Code:  
Code 126-020 for 20 L**

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Cabinet spray washer  
electric motor  
components.



"Trek" tunnel washer electronic  
components machined multi-  
metal degreasing.