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# CTI 503 H.D.

## Aluminum Cleaner/Brightener/Polisher

- A) **Product Introduction:** CTI 503 H.D. is a ready to use complex formulation of *environmentally friendly* dilute acids and unique stable biodegradable surface active detergents. This product is designed for cleaning the finished product e.g. Horse Trailers, Recycling Trucks, Feed Carriers, Semi Dumps, Bulk Carriers (milk, flour cement, petroleum, etc.), Wheels, Fuel Tanks, and Cattle Pots at the owner's level, at the owner's and fleet operator's facility.
- B) **Process Introduction:** CTI 503 H.D. formula is designed to effectively remove *residual dirt, oils, black welding soot, corrosion, oxide films, design marker and microscopic projections* from polished and extruded aluminum surfaces without "white" etching or pitting.

**!!! THIS PROCEDURE IS FOR TRAINED PERSONNEL ONLY !!!**

- C) **Process Specificity:** The cleaning ability of this product is restricted to quality rolled or extruded primary aluminum and stainless steel articles. CTI 503 H.D. is applied as a light mist to the surfaces to be cleaned using the applicator system described below. It is designed for the retention and restoration of high optical reflectivity on polished metal surfaces.

**Required Equipment: Model ARO Industrial Series Air Driven Demand Pump**

Chemical resistant and maintenance free self priming pump. It may be located several feet from the drum above or below the fluid level, (see installation guide). The system is complete with 100 feet of ¼ inch fluid hose, 3/8 suction hose, plastic shut-off valve, 6 foot plastic wand and SS spray tip.

High Pressure Cold Water Washer Operating at >3000 psi 4 gal/min.

This product cannot be used through the chemical siphoning mechanism of the pressure wash system - extremely corrosive to springs.

**Personal Protective Equipment for Outside Application** are rubber boots, chemical safety glasses, and rubber gloves.

**For Inside and Enclosed Areas** also use an acid mist respirator, if not ventilated, and rain suit of vinyl construction.

- D) **Product Application Procedure** - To start operation, set up **ARO 666023-xxx Industrial Series Air Driven Demand Pump**, and regulate air pressure to **40-50 psi**. The pump will operate automatically by starting and stopping the flow on demand at the wand. If the metal is hot, thoroughly cool and wet the entire surface to be treated. The best time for application is early mornings or late afternoon. Spray chemical solution directly from the drum onto the surface and have the pressure washer ready for rinsing. Assure complete thin film coverage. Once the application is complete, **allow chemical exposure time of 60 seconds but no longer than 90 seconds**. Brushing is optional.

**CAUTION: Do not let chemical dry on the metal surface (wind drift chemical spray is a potential danger) i.e. concentrated chemical without water may stain surface if not rinsed.**

Rinse the section with high pressure water, keeping the nozzle 2 inches from the surface, starting at the bottom and consistently moving with a six inch fan or less in a horizontal pattern until the top is reached. Then, rinse all residual chemical solution thoroughly from the surface working from the top down. Be sure to always rinse the chemical solution over spray from the other sections in the same fashion. Special cautions apply to bulk carriers because of their rounded tops. When the entire unit is complete, a final water rinse and flush will assure no residual chemical activity on the aluminum.

**NOTE: Insufficient rinsing may result in streaks as the surface dries (i.e. trapped chemical). This precaution only applies to rolled aluminum and not to extrusions or sheeting on newly fabricated units. For extra pride, chamois surface dry.**

This chemical treatment procedure pacifies the aluminum metal surface and inhibits against corrosion. As the new aluminum surface is not exposed to the air, it will form a natural aluminum oxide film protecting it against pit corrosion. **Accessories on finished units, such as light assemblies, reflectors, plastics, glass, brass, decals, logos, wood, tarps, mud flaps, or rubber tires are not altered or defaced by this chemical solution when used according to directions.**

CTI 503 H.D. is an excellent oil, rust, and heat scale remover from steel, and is recommended treatment prior to phosphating. The exposed steel must be stem phosphated before the surface dries and flash rusting appears.

**Carefully read the WHMIS label and Material Safety Data Sheets, and follow all safety precautions as they pertain to your particular needs.**

