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SPECIALTY CHEMISTRY

WASTE MANAGEMENT

APPLICATION TECHNOLOGY

INNOVATIVE ENGINEERING

Product Application Presentation

Product Identifier:

TCI 1255 H.D.

Process Identifier: Multi-metal hot aqueous cabinet and tunnel jet wash degreaser and corrosion inhibitor

Product Presentation

TCI 1255 H.D. is a non-foaming, coarse granular cream coloured dust free powder of mild alkaline builders, incorporating special buffers, solvents and corrosion inhibitors.

TCI 1255 H.D. is charged to a volume of hot water 60–80°C at a rate of 23 g/L.

Conversion

160°F at a rate of 3 oz/gal.

Process Specificity

Hot aqueous (60–80°C) low pressure (50–80 psi) high volume (50–80 gpm) spray cleaning of soiled aluminum, ferrous and copper metals and their alloys pertaining to automotive and industrial engines and power transmission components. Soils effectively removed through turbulence include: protective coatings e.g. moisture repelling shipping oils and waxes, dirt, oil, varnish, drawing compounds, grease, carbon, metallic particles and smut. The metals are cleaned by emulsification, dispersion, saponification and sludge settling or a combination of these mechanisms.

The cleaning solution comes in contact with the entire surface of the part when properly placed on the rotating turntable of the jet washer to prevent shadowing. After the alkaline cleaner has affected the soil on the part, the soil is removed from the metal surface by low pressure flushing, i.e. mechanical means of solution movement.

The cleaning cycle (30 sec – 15 min) depends on the type of dirt and the type of parts cleaned. For normal temperature and product concentration extremely dirty parts will be clean in 15 minutes. Due to the hot cleaning process, parts dry quickly with no residual powder residue. Use an airblow gun to remove the residual cleaning solution from pooling areas, threaded bolt holes, cracks and crevices.

Solution Maintenance

Cleaning solution concentration is maintained through simple addition of the TCI 1255 H.D. compound. Solution strength is determined by titrating with a dilute acid to the phenolphthalein end point with Titration Kit 1255.

QUALITY CONTROL TITRATION KIT 1255 is provided at NO additional cost.

If a foaming problem should arise, due to saponifiable contamination, check solution strength first, only if the solution strength and temperature are normal, add the TCI 015 H.D. FOOD GRADE defoamer or a small amount of non-detergent engine oil to float on the surface of the hot water at 1 oz/square foot.

You may shut the heat off overnight or on weekends to allow the oil skimmer to remove floating protective oils and waxes that separate during cooling but it will also remove the defoaming action of oil.

Solution Disposal

The clean chemical solution is biodegradable, but according 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:

Discharged through a treatment system e.g. 3 stage interceptor OR manifested and removed by a licensed carrier and received by a licensed receiver accompanied by a Generator Registration Number OR removed by a licensed carrier and received by a licensed receiver under a service contract providing a garage license number.

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

Typical cabinet jet washer



TCI 1255 H.D.

When used according to directions will prevent RUST and CORROSION of all wetted parts (steam, vapour or liquid) of the steel cabinet and solution holding reservoir.

Packaging

25, 100, 200 kg

Before



After



For industrial and institutional use only.

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Please call our technical support line at 1-888-658-5515 for solutions to your industry.

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