Clearcote 2000

Clearcote 2000 is a water-soluble wax used to impart a thin dry wax film to any metal surface where lubricity is desirable.

Clearcote 2000 is a product for the time, in that, does not contain any ingredients that would present problems or hazard normally associated in metal finishing or processing.

Clearcote 2000 is free of: phosphates, amines, nitrites, chelators and nitrates - product will not interfere when carried in treatment system.

Clearcote 2000 is an odorless and colorless wax liquid of low viscosity and can be used at full strength or diluted with water. The wax film, upon drying, leaves a clear, shiny surface. The film will stay dry and firm under usual ambient temperatures.

Features & Benefits

Water soluble liquid	Easily diluted
Phosphates, amines, nitrates, nitrites, and chelators free	Environmentally friendly

Physical Data

Specific gravity	1.02
Vapor pressure	N/A
Solubility in water	Appreciable
Appearance and odor	Colorless liquid
pH	(conc) 10 – 11

Typical Applications

- Increased die life.
- Clean finish.
- No draw marks or scratched decorative surfaces.
- Equipment easily cleaned with water. No solvents required.
- Used at room temperature.
- Non-flammable product - no fire hazard.

- Provides tarnish resistance on brass and copper work.
- No harmful fumes to impair health of operators.

Operating Conditions

A common usage of Clearcote 2000 is to provide lubricity or sliding action to plated fasteners such as screws, pins, connectors, bolts, etc. To prevent binding due to non-uniform plated thicknesses of cadmium or zinc. Clearcote 2000 is especially indicated where conventional oils or waxes are undesirable or cannot be tolerated.

Concentrations for this application may range from 10 to 25% (vol) with water, for immersion application. After immersion in the Clearcote 2000 solution the parts are best dried by hot air rotary drum drier or vibratory trays. Centrifugal drying may be used but is not the preferred method.

When Clearcote 2000 is applied from sprays, a hood should be provided. However, this is mostly to comply with local regulations

Light stamping/drawing applications - Clearcote 2000 is generally applied full strength from high velocity spray heads or jets.

Metal blanks are sprayed either from a manual feed applicator or from conveyorized equipment. Metal blanks plain or lithographed are fed automatically to the forming presses.

Clearcote 2000 is used on bulk plated parts to provide fingerprint protection and increase shelf life.

Titration Method

1. Pour 200 mL sample of Clearcote 2000 solution into a 500 mL Erlenmeyer flask.
2. Add 4 to 5 drops Methyl Orange indicator to sample.
3. Titrate with 0.5 N HCl until the color changes from yellow to orange pink.
4. Record mL used.

Calculation

Concentration = mL 0.5 N HCl x 5.0

Waste Disposal

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

Our people. Your problem solvers.

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