Clearcote

Clearcote is a water-soluble wax used to impart a thin dry wax film to any metal surface where lubricity is desirable. Clearcote is a colorless wax liquid of low viscosity and can be used at full strength or diluted with water. It is odorless and leaves no stain on the surface to which it has been applied. The wax film, upon drying, leaves a clear, shiny surface. The film will stay dry and firm under usual ambient temperatures. Clearcote is non-flammable.

Features & Benefits

Water soluble	Easily diluted to achieve desired final film thickness
Non-flammable	Improved safety
Used at ambient temperature	Reduced energy cost

Physical Data

Specific gravity	1.02
Solubility in water	Appreciable
Appearance and odor	Colorless liquid

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.
- No fire hazards.
- No harmful fumes to impair health of operators.

Operating Conditions

Applications

1. Common usage of Clearcote 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 is especially indicated where conventional oils or waxes are undesirable or cannot be tolerated. A concentration of 10

to 25% by volume in water is the usual dilution for immersion applications. Metal parts, after immersion, are best dried by hot air rotary drum driers or vibrating trays. Centrifugal drying may be used but is not the preferred method.

2. For light stamping or drawing applications Clearcote 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. In can or container fabrication application the latter method is preferred. Sprayed blanks, plain or lithographed are fed automatically to the forming presses.

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

Titration Method

1. Pour 100 mL sample of Clearcote solution into a 250 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 3.6

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.

Our people. Your problem solvers.

For more information on this process please call us at
1-800-648-3412
or techservice@hubbardhall.com