

Lusterclean 40 LF

Lusterclean 40 LF is a mildly alkaline, low foam, water soluble, liquid cleaner developed for cleaning ferrous metals, copper, brass alloys, stainless steels, aluminum, nickel coated stock and nickel alloys, in either a soak cleaning, age-dip soak operations, or spiral washer. The special blend of detergents in Lusterclean 40 LF will emulsify and disperse soils such as lard oil, sulfurized and chlorinated oils, general shop oil and synthetic lubricants. The other feature of Lusterclean 40 LF is its ability, when used hot with agitation, or as an ultrasonic cleaner, to remove buffing compounds from aluminum, brass, bronze, steel, and stainless steel.

Features & Benefits

Concentrated liquid	Effective at lower concentrations; Fast dissolving
Superior surfactant system	High effective for buffing compound and particulate removal
Leave behind corrosion barrier	Temporary anti-tarnish for copper alloys
Mildly alkaline (Phosphate free)	Tends to emulsify most fabrication lubricants, oils, and greases

Physical Data

Specific gravity	1.04
Solubility in water	Forms soap-based emulsions
Appearance and odor	Dark brown, mild odor
pH 10% solution	8.0
pH concentrate	8.5 – 9.5

Operating Conditions

Soak

Concentration	3% – 10%
Temperatures	150°F – 200°F (65° – 93°C)
Time	2 – 10 minutes
Equipment	Mild steel tank and heating coil
Ventilation	Recommended

Ultrasonic Cleaner

Concentration	1% – 5%
Temperatures	Room – 106°F
Equipment	Any ultrasonic cleaning equipment

Mass Finishing Compound

Concentration	3% – 5%
Temperatures	Ambient
Time	5 – 60 minutes
Equipment	Vibratory finishing mills, tube and oblique barrels
Ventilation	Not required

Titration Method

1. Using a 100 mL graduated cylinder, pour 200 mL of cleaner into a 500mL Erlenmeyer flask.
2. Add 100 mL water.
3. Add 20 drops Bromocresol Purple Indicator.
4. Titrate with 0.5 N Hydrochloric Acid from purple to a yellow endpoint.
5. Record mL used.

Calculation

$$\text{Concentration} = \text{mL } 0.5 \text{ N HCl} \times 0.39$$

Test Kit Method

1. Using a syringe, measure a 10 mL sample of Lusterclean 40 LF into a mixing bottle.
2. Add approximately 20 mL water.
3. Add 1 mL Bromocresol Purple and swirl flask to ensure complete mixture.
4. Add 0.72 N Hydrochloric Acid dropwise while mixing until the solution turns from purple to yellow.
5. Record number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops of } 0.72 \text{ N HCl} \times 0.4$$

Waste Disposal

Discharge rinse waters and spent solutions to a permitted disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

Caution

Lusterclean 40 LF is an alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury. Consult SDS for details.

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Product Bulletin

Product Name: Lusterclean 40 LF

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶