

Lusterclean 43 Gold

Lusterclean 43 Gold is a mildly alkaline, phosphate, borate, and silicate free, water soluble, liquid product developed for cleaning all metal (except magnesium) without affecting their luster. It is designed for heavy-duty applications.

The special blend of detergents in Lusterclean 43 Gold will emulsify and disperse soils such as lard oil, sulfurized and chlorinated oils, general shop oil and certain identification inks present on aluminum alloys. It is extremely effective at removing fine particulate soils from metal surface that are common on parts that have been deep drawn.

The other feature of Lusterclean 43 Gold is its ability, when used hot with agitation, or as an ultrasonic cleaner, to remove buffing compounds from aluminum, brass, bronze, steel, stainless steel and zinc die-castings.

Note: Lusterclean 43 Gold is an excellent pre-soak cleaner. However, it will not clean to a water-break-free surface. Thus, Lusterclean 43 Gold would find application where the requirements are such that a water-break-free surface is not required. Furthermore, the residual invisible film on the surface of the metal does possess limited corrosion preventative properties. This invisible film is immediately removed in an alkaline soak cleaner such as Hubbard-Hall's Aquaease PL 85.

Features & Benefits

Fast acting cleaner-parts are cleaned rapidly	Fast dissolving-dissolves in water at any temperature
Safe to use- mildly alkaline-non-flammable	Non-corrosive and non-fuming

Physical Data

Specific gravity	1.18
Solubility in water	Complete
Appearance and odor	Yellow to Amber, Mild Sweet odor
pH 10% solution	7.5 – 8.5
pH concentrate	8 – 9

Operating Conditions

Concentration	2 – 5% (vol)
Temperatures	150°F – 200°F (65°C – 93°C)
Time	150°F – 200°F (65°C – 93°C)
Equipment	Mils steel tank and heating coils
Agitation	Required for removal of buffing or polishing compounds
Ventilation	Not required

Ultrasonic cleaning

Concentration	3 to 5% (volume) maximum
Temperature Range	140°F – 160°F (60°C – 71°C)
Time	30 seconds – 1 1/2 minutes

Titration Method

1. Pour a 100 mL sample of Lusterclean 43 Gold into a 250 mL Erlenmeyer flask, use 100 mL graduate to dispense solution.
2. Add 1 mL LaMotte yellow indicator - swirl flask to insure complete mixture.
3. Titrate with 0.5 N HCl or Sulfuric Acid until the solution turns from yellow to definite pink.
4. Record mL of acid used.

Calculation

$$\text{Concentration Lusterclean 43 Gold 42 (\% VOL)} = 0.32 \times \text{mL 0.5 N HCL Used.}$$

Test Kit Method

1. Using syringe, place 10 mL of Lusterclean 43 Gold into Test Bottle.
2. Add ~20 mL of water.
3. Add 8-10 drops of Methyl Orange indicator.
4. 0.72N Hydrochloric acid dropwise until color changes from yellow to pink.

Calculation

$$\text{Concentration Lusterclean 43 Gold 42 (\% VOL)} = 0.32 \times \text{mL 0.5 N HCL Used.}$$

Waste Disposal

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



Caution

Lusterclean 43 Gold is a mildly 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.

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