Lusterbrite AC 10

Lusterbrite AC 10 is an acidic soak and ultrasonic cleaner that may be used for the removal of a variety of soils and oxides from copper alloys, aluminum, stainless steel, Monel, and other high nickel alloys.

Lusterbrite AC 10 contains a high percentage of surfactants designed to remove forming lubricants, machining oils, and light rust or scale from these substrates. When used as recommended, will not etch most aluminum or stainless-steel alloys.

Lusterbrite AC 10 can be used for part-on-part burnishing and vibratory finishing of aluminum, copper alloys, Stainless Steel, Monel, and other nickel-based alloys / substrates.

Features & Benefits

Highly concentrated	Effective at lower concentrations
Contains no mineral acids	Safer and less corrosive than Sulfuric acid-based cleaners
Non-chelated (No citric acid)	Easily waste treated

Physical Data

Specific gravity	1.06
Solubility in water	Complete
Appearance and odor	Amber, mild odor
pH 10% solution	3.0
pH concentrate	2.3

Operating Conditions

Concentration	3% – 10%
Temperature	Ambient – 70°F (77 °C)

Ventilation	Recommended when heated
Equipment	Stainless steel, Polypropylene, Fiberglass or Rubber lined tanks
Heater	Stainless steel, Alloy 20, Teflon

The dilution will depend upon the soils involved. The rate at which soils, rust, and oxides are removed can be affected by build-up of iron or other metallic salts in the working solutions.

When used for cleaning aluminum, a concentration of 5% to 10% by volume at temperatures up to 170°F with dwell times of 5 to 10 minutes is recommended.

These parameters will result in little or no etch on most aluminum alloys.

When used as a burnishing compound, a concentration of 0.2% to 3% by volume is recommend. For the removal of heavier oxides concentration of 5% to 10% by volume may be required.
Lusterbrite AC 10 cannot be used as a spray cleaner, as it will result is excessive foaming.

Titration Method

1. Take a 25 mL sample of Lusterbrite AC 10 solution into a 250 mL Erlenmeyer flask and dilute to 50 mL with DI water.
2. Add 3 to 5 drops of Phenolphthalein.
3. Titrate to pink endpoint with 1.0 N Sodium Hydroxide solution.
4. Record mL used.

Calculations

Concentration = mL of 1.0 N NaOH x 3.9

Test Kit Method

1. Take a 10 mL sample of Lusterbrite AC 10 solution into the mixing tube with some DI water.
2. Add 3 to 5 drops of Phenolphthalein.
3. Add 0.72N Sodium Hydroxide dropwise while swirling the solution until it turns pink.
4. Record the number of drops required.

Calculations

Concentration = # Drops 0.72N NaOH x 0.54

Waste Disposal

Neutralize solutions of Lusterbrite AC 10 to a pH of 6.0 to 8.0 with either caustic soda or soda ash before discarding. In order be completely informed on the latest waste disposal regulations for your area, please contact the local authorities.

Caution

Lusterbrite AC 10 is an acidic product, avoid skin, eye, and oral contact. Wear protective clothing, facemask, chemical goggles and gloves when handling the product and its make-up solutions. Flush exposed areas immediately with copious amounts of clean, cold water. Contact a doctor immediately in case of injury.

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