Aquaease™ AC AL10 I

Product Code: 2052103
Revised Date: 8/7/2015

Aquaease™ AC AL10 I
Heavy Duty Acid Cleaner

Aquaease™ AC AL 10 I is an acidic soak, ultrasonic, spray cleaner that may be used for the removal of a variety of soils and oxides from aluminum, stainless steel, Monel, and other high nickel alloys. **Aquaease™ AC AL 10 I** contains a high percentage of DfE acceptable surfactants designed to remove forming lubricants, machining oils, and light rust or scale from these substrates. It is also effective for lime scale removal. When used as recommended will not etch most aluminum or stainless steel alloys.

Aquaease™ AC AL 10 I can be used for part-on-part burnishing and vibratory finishing of copper alloys, stainless steel, Monel, and other nickel based alloys / substrates.

FEATURES

Highly concentrated
High detergency
DfE approved wetting system
Can be used as a burnishing compound
Removes light rust and scales
Readily dissolves metallic soaps
Contains no mineral acids
No chloride
Non-fuming
Safer than sulfuric acid
No citric acid or other chelating agents

PHYSICAL DATA

Specific gravity 1.005
Solubility in water ..... complete
Appearance and odor ..... ,clear, mild odor
PH 10% solution 2.8
PH concentrate ----------2.25

info@hubbardhall.com
P.O. Box 790 ● Waterbury, CT 06720-0790● Tel: (203) 756-5521 ● Fax: (203) 756-9017
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OPERATING CONDITIONS

5% to 15% (volume) - 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. This may be compensated for to some extent by increasing the temperature and or the solution concentration.

Temperature ..... room to 170 °F (77 °C)
Ventilation ..... when heated or used in spray systems

When used for *cleaning aluminum* a concentration of 5 to 10% by volume at temperatures up to 170 degrees F with dwell times of 5 to 10 min. is recommended. These parameters will result in little or no etch on most aluminum alloys.

For *spray applications* a concentration of 2 to 5% by volume with a temperature of 160 to 170 F. is recommended.

When used as a *burnish compound* a concentration of 0.2 to 2% by volume is recommend. For the removal of heavier oxides concentration of 5 to 10% by volume may be required.

Equipment ..... stainless steel, polypropylene, polyethylene
..... Fiberglass or rubber lined tanks
Heater ..... stainless steel or nickel-plated steel piping

CONTROL PROCEDURE

Titration Method

- Take a 25 ml. sample of Aquaease AC AL 10I solution into a 250 ml. Erlenmeyer flask and dilute to 50 ml. with DI water.
- Add 3-5 drops of phenolphthalein.
- Titrate to pink endpoint with ..1N sodium hydroxide solution.
- Record ml. of sodium hydroxide used.

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% by Volume Aquaease AC AL 10I = # ML. of .1N Sodium Hydroxide used X 3.9 (correction factor)

WASTE DISPOSAL

Neutralize solutions of **Aquaease™ AC AL 10 I** to a pH of 6 to 8 with either caustic soda or soda ash before discarding. In order be completely informed on those latest waste disposal regulations for your area; please contact the local authorities.

CAUTION

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

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.

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