



Aquaease[®] SAL

Aquaease SAL is a liquid soak cleaner for aluminum alloys, which contains a unique blend of biodegradable surfactants and a mild inhibited acid. Aquaease SAL is also an excellent cleaner / burnishing compound for use in vibratory finishing mills or “part on part” tumbling barrels.

Aquaease SAL will not etch polished aluminum when used as recommended in “Operating Parameters” below.

This product contains phosphate builders, please consult with your EHS staff regarding waste disposal requirements.

Features & Benefits

Good ultrasonic cleaner	May be used on brass and copper
Biodegradable	Easily waste treated
Good detergency	Keeps mass finishing media clean

Physical Data

Specific gravity	1.06
Solubility in water	Complete
Appearance	Pale yellow liquid
pH (conc)	4.8 – 5.2

Operating Conditions

Soak or age-dip operations

Concentration	5% – 10%
Temperature	160°F – 200°F
Time	3 – 7 min
pH	5.0 – 5.5
Equipment	Tanks may be fabricated with



	stainless steel, or lined mild steel
Heaters	Stainless steel or Teflon heating coils recommended

Agitation of work or solution is beneficial. Optimum operating parameters are 7.5% volume, 180° F, for five minutes at a pH of 5.3.

Titration Method

1. Pipette 25 mL of Aquaease SAL into a 250 mL Erlenmeyer flask
2. Add 75 mL of deionized water.
3. Add 5 to 10 drops of Phenolphthalein indicator to the flask and swirl to mix.
4. Titrate with 0.1 N Sodium Hydroxide to a slight pink endpoint.
5. Record mL used.

Calculation

$$\text{Concentration} = \text{mL } 0.1 \text{ N NaOH} \times 0.87$$

Test Kit Method

1. Fill mixing bottle with approximately 25 mL water.
2. Using syringe, add 10 mL of solution.
3. Add 5 to 8 drops of Phenolphthalein indicator
4. Add 0.72 N Sodium Hydroxide dropwise, while mixing until a color change from yellow to pink.
5. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops } 0.72 \text{ N NaOH} \times 0.59$$

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

Even though Aquaease SAL is a mildly acidic liquid; wear protective clothing and goggles when handling this product. If exposed, flush thoroughly with clear, cold water. Always read the Material Safety Data Sheet to ensure familiarity with the methods of safe handling and the health hazards associated with the product. In case of injury contact a doctor.



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.

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.