



# Aquaease™ SLA 3000

Aquaease SLA 3000 is an inhibited, acidic, soak and ultrasonic 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 SLA 3000 contains a high percentage of DfE acceptable surfactants and solubilizers designed to remove forming lubricants, machining oils, and light rust or scale from these substrates. It is also effective for lime scale removal.

Aquaease SLA 3000 will not remove heavy scale from stainless steel alloys. When used as recommended will not etch most aluminum, stainless steel, brass, copper, Monel or other nickel alloys.

Aquaease SLA 3000 is formulated with an inhibitor package, to help prevent attack on martensitic, and other magnetic stainless alloys. While this formulation will reduce attack on non-stainless steel alloys, it is not recommended for extended soak or cleaning operations for these materials.

## Features & Benefits

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

## Physical Data

Specific gravity	1.09
Solubility in water	Complete
Appearance and odor	Light amber, clear, mild odor
pH 10% solution	1.0 – 2.0
pH concentrate	< 1.0



## 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	Ambient – 170°F (77 °C)
Ventilation	When heated or used in spray systems
Equipment	Stainless steel, Polypropylene, Polyethylene, fiberglass or rubber lined tanks
Heater	Stainless steel or nickel-plated steel piping

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

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

## Titration Method

1. Take a 25 mL sample of Aquaease SLA 3000 solution into a 250 mL Erlenmeyer flask and dilute to 50 mL with 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.

Calculation

$$\text{Concentration} = \text{mL } 1.0\text{N NaOH} \times 1.5$$

## Test Kit Method

1. Fill sample bottle 1/2 full of water
2. Using the syringe provided, place a 1.2 mL sample into sample bottle
3. Add 5 drops of Phenolphthalein indicator.
4. Add 1.0 N Sodium Hydroxide drop wise until solution turns light pink.
5. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops NaOH}$$



## Waste Disposal

Neutralize solutions of Aquaease SLA 3000 to a pH of 6.0 to 8.0 with either caustic soda or soda ash before discarding. In order to be completely informed on those latest waste disposal regulations for your area, please contact the local authorities.

## Caution

Aquaease SLA 3000 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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## Our People. Your Problem Solvers.

For more information on this process,  
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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**<sup>136</sup>.