



Aquaease™ S 188 NE

Aquaease S 188 NE is a water soluble, non-silicate, phosphate free, non-etch, and mildly alkaline soak cleaner for aluminum, aluminum alloys, and clad stock. Aquaease S 188 NE is formulated to remove stenciling inks, fabrication oils, and shop dirt without etching the aluminum.

Features & Benefits

Will not inhibit aluminum etching	Contains a corrosion inhibitor
-----------------------------------	--------------------------------

Physical Data

Solubility in water	Appreciable
Appearance and odor	White powder
pH	9<10

Typical Applications

- Soak cleaning prior to anodizing
- Soak cleaning prior to chromate conversion coat
- Soak cleaning prior to phosphate and paint
- Tumble cleaning of small aluminum parts

Operating Conditions

Concentration	4 – 12 oz/Gal (30 – 90 g/L)
Temperature	140°F – 190°F (60°C – 88°C)
Time	2 – 6 min
Equipment	Mild steel tanks and heating coils

Titration Method

1. Pipette 10 mL sample of Aquaease S 188 NE into a 250 mL Erlenmeyer flask.
2. Add 50 mL of water and 4 to 5 drops Bromophenol blue indicator to Erlenmeyer flask.
3. Titrate with 0.5 N HCl until color goes from blue to greenish-yellow.
4. Record mL 0.5 N HCl used.



Calculation

$$\begin{aligned} \text{Factor (oz/Gal)} & 1.0 \\ \text{Factor (g/L)} & 7.5 \end{aligned}$$

$$\text{CONCENTRATION Aquaease S 188 NE} = \text{FACTOR} \times \text{MLS 0.5 N HCL USED}$$

Test Kit Method

1. Fill bottle 1/3 full of water. Add 1 mL sample of Aquaease S 188 NE
2. Add 8-10 drops Methyl Orange indicator.
3. Add 0.72 N Hydrochloric Acid solution drop wise – record number of drops till color changes from yellow to red orange.

$$\begin{aligned} \text{Factor (oz/Gal)} & 0.63 \\ \text{Factor (g/L)} & 4.7 \end{aligned}$$

$$\text{Conc. Aquaease}^S \text{ 188 NE} = \text{Factor} \times \text{drops 0.72 N Hydrochloric Acid}$$

Waste Disposal

Discharge rinse water and spent cleaner solution to a permitted treatment system. Neutralize by adjusting pH to 6.0 to 8.0 with a mineral acid. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

Note: Solutions of Aquaease S 188 NE have a pH below 10.0.

Caution

Aquaease S 188 NE is mildly alkaline. Avoid skin, eye, and oral contact. Wear protective clothing, goggles and gloves when handling the product. If exposed, flush thoroughly with clear, cold water. In case of injury please 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.