



# Aquaease™ WP S1

Aquaease WP S1 is a powdered alkaline, phosphate and chelator free product, which may be used as a soak cleaner and in some instances as an electro cleaner in rack or barrel lines. The surfactant system of Aquaease WP S1 is completely biodegradable. Aquaease WP S1 may be used to clean ferrous metals, brass alloys, copper, bronze, stainless steel, and magnesium alloys (low in aluminum content).

## Features & Benefits

Powdered soak or electro cleaner	Cleans copper, bronze, stainless steel, and ferrous metals
Completely biodegradable	Phosphate and chelator free product

## Physical Data

Solubility in water	Appreciable
Appearance and odor	White or off-white granular

## Operating Conditions

Operating conditions (immersion cleaning)

Concentration	4 – 16 oz/Gal
Temperature	140°F – 200°F
Time	As required
Equipment	Mild steel tanks and heating coils

Operating conditions as electro cleaner (anodic or cathodic)

Concentration	8 – 18 oz/Gal
Temperature	160°F – 200°F
Current density	10 – 40 amps/ft <sup>2</sup> (the lower current densities 10 – 25 amps/ft <sup>2</sup> should be reserved for brass and bronze)



	alloys)
Equipment	Mils steel tanks, anodes and coils
Ventilation	Required

Notes: - When recharging a cleaning tank with a fresh solution, check that the steel electrodes are free of sludge. A sludge build-up will act as an insulator and consequently reduce current flow.

- In some electro cleaning operations addition of caustic soda may be added for higher conductivity.

#### Tank make-up procedure

Considerable Heat Is Generated when Aquaease WP S1 is dissolved in water. A new solution should be prepared by filling the tank half full of warm water (approx. 100 °F, 37 °C), and slowly adding Aquaease WP S1 while continuously stirring. After the Aquaease WP S1 has been dissolved, add the remainder of the cold water. Heat or cool to desired operating temperature before use.

## Titration Method

### I. BURET TITRATION PROCEDURE

Use 5-mL sample of Aquaease WP S1 solution, titrate with N/2 HCl, 3 drops Phenolphthalein indicator.

$$\text{Concentration of Aquaease WP S1} = \text{mL N/2 HCL} \times 1.10$$

## Test Kit Method

$$\text{Concentration Aquaease WP S1} = \text{drops 0,62n Hydrochloric acid} \times 0.64$$

## Waste Disposal

Discharge to a disposal system. To be completely informed on the latest regulations for your area, please contact the local authorities.



## Caution

Aquaease WP S1 is an alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles, and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury. Consult SDS for details.

**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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