

# Aquaease™ SL 190

Aquaease SL 190 is a heavy-duty liquid, chelated, cleaner/descaler, used in immersion applications for ferrous metals. While formulated to give effective soil removal, it is also designed to remove heat treat scale, and rust.

## Features & Benefits

Alkaline scale and rust removal	Excellent particulate soil removal when used with ultrasonic
No acid induced hydrogen embrittlement	Free rinsing

## Operating Conditions

Concentration	10% – 30%
Temperature	170°F – 200°F
Time	5 – 20 min
Equipment	Stainless Steel, Mild Steel
Ventilation	Recommended

**Heavy scale and rust may require higher concentrations and temperatures.**

### Make-up procedure

Fill tank 3/4 full of water and slowly add required amount of Aquaease SL 190. Add remaining water and raise temperature to operating conditions.

## Titration Method

1. Pipette a 20 mL sample into a 250 mL Erlenmeyer flask and dilute with 50 mL of distilled water.
2. Add 3 to 5 drops Phenolphthalein indicator.
3. Titrate with 0.5 N Hydrochloric Acid (HCl) until the pink color completely disappears.
4. Record mL used.

Calculation

$$\text{Concentration} = \text{mL of 0.5 N HCl} \times 1.13$$



## Test Kit Method

1. Fill test kit bottle  $\frac{1}{2}$  way with water.
2. Using a syringe, measure out a 3 mL sample of Aquaease SL 190 working solution and transfer it into the test kit bottle.
3. Add 5 drops Phenolphthalein Indicator.
4. Add 0.72 N Hydrochloric Acid (HCl) drop wise until the pink color completely disappears.
5. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ of Drops } 0.72 \text{ N HCl} \times 0.39$$

## 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

Aquaease SL 190 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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For more information on this process,  
please call us at 203.756.5521 or email: [techservice@hubbardhall.com](mailto:techservice@hubbardhall.com)

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