Product Bulletin
Product Name: Aquaease SL 916
Product Code: 2052001
Revision Date: January 10, 2024

Aquaease™ SL 916

Aquaease SL 916 is a heavy duty highly alkaline liquid cleaner which may be used as an immersion, spray, and as an electro-cleaner for cleaning ferrous metals, copper, brass alloys, magnesium, and titanium alloys.

Aquaease SL 916 was formulated to remove a variety of forming lubricants and carbonaceous type soils from these metals.

Aquaease SL 916 because of its formulation, it is relatively free-rinsing, and will perform well in hard water areas, where not only does water hardness interfere with cleaning, but also the product's rinsing ability.

Features & Benefits

Concentrated liquid	Effective at lower concentrations
Low foaming	Effective at lower temperatures
High conductivity	Effective for electro-cleaning
No silicates	Free rinsing

Physical Data

Specific gravity	1.30
Solubility in water	Complete
Appearance and odor	Dark brown, mild odor
pH 10% solution	12.0 – 13.0
pH concentrate	14.0

Operating Conditions

Immersion (Rack or Barrel)

Concentration	5% – 20%
Temperature	100ºF – 180º F
Time	5 – 6 minutes
Equipment	Mild steel tanks and heating

	coils
Ventilation	Suggested

Immersion (Ultrasonic)

Concentration	1% – 10%
Temperature	90° F – 200°F
Time	30 – 90 seconds

Spray (Spiral, Belt, Monorail)

Concentration	4% – 6%
Temperature	120°F – 160°F
Time	1 – 6 minutes
Equipment	Mild steel tanks and heating coils
Ventilation	Suggested

Electro-Cleaning

Concentration	8% – 11%
Temperature	100°F – 180°F
Time	1 – 6 minutes
Current Density	40 – 80 amps/ft^2
Equipment	Mild steel tanks and heating coils
Ventilation	Suggested

Consumption of the cleaner is affected by reaction with soils, neutralization of fatty acids, and drag out of the cleaner solution. Additions to maintain desired concentration are recommended.

Note: The same working solution of Aquaease SL 916 should not be used to clean copper alloys, steel and stainless steel.

Titration Method

1. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask and dilute with 50 mL of distilled water.

2. Add 4 drops Methyl Orange indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until the color changes from orange to pink.
4. Record mL used.

Calculation

Concentration = mL 0.5 N HCl x 0.69

Test Kit Method

1. Fill bottle 1/3 full of water. Add 1/2 mL of Aquaease SL 916 working solution.
2. Add 4 to 8 drops of Methyl Orange indicator.
3. Add 0.72 N Hydrochloric Acid drop wise and record number of drops required for color change from orange to pink.
4. Record the number of drops used.

Calculation

Concentration = # Drops of 0.72 N HCl x 0.71

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 916 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.

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For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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