Aquaease™ SL 80

Aquaease SL 80 was developed specifically to replace the vapor degreasing operation or the use of chlorinated solvents in the cleaning of metals. It is a liquid, silicate, moderately alkaline, phosphate and chelating agent free soak cleaner, for all metals. Aquaease SL 80 is recommended for heavy duty cleaning where high degrees of soil loading are anticipated.

Aquaease SL 80 is very effective at cleaning chlorinated and sulfur containing oils from most metals. It is also effective at removing fabricating lubricants, shop dirt, and identification inks without attacking aluminum. Aquaease SL 80 may be used as the initial alkaline soak cleaner in aluminum finishing operations such as: anodizing, chromate conversion coating, phosphate conversion coating, and plating of aluminum.

Features & Benefits

High detergency	Can be used on all metals
Splits most oils	Easily waste treated
Will not etch aluminum	Long life

Physical Data

Specific gravity	1.12
Solubility in water	Infinite
Appearance and odor	Amber liquid
pH (conc.)	13 – 14

Typical Applications

- Soak cleaning in electroplating lines
- Soak cleaning in black oxide / metal coloring lines
- Soak cleaner in phosphate conversion coating lines
- Soak cleaner in chromate conversion lines
- Part on part barrel tumble cleaning

Operating Conditions

Concentration	5% – 20% by vol
Temperatures	140°F – 190°F (max)
Immersion time	As required
Equipment	Mild steel, stainless, or Polypropylene tanks

Note: Aquaease SL 80 solutions should never be carried directly into an alkaline etch. The work must always be rinsed prior to alkaline etching. A rinse temperature of 150°F is advised.

Titration Method

1. Pipette 50 mL sample of cleaner solution into a 250 mL Erlenmeyer flask and dilute to 100 mL with water.
2. Add 5 drops of Methyl Orange indicator.
3. Titrate with 0.5 N Hydrochloric Acid until the solution turns red.
4. Record mL used.

Calculation

Concentration (% Vol) = mL of 0.5N HCl x 0.53

Test Kit Method

1. Fill test kit bottle 1/2 way with water.
2. Using a syringe or 10 mL graduated cylinder measure out a 5 mL sample of Aquaease SL 80 and transfer it into the test kit bottle.
3. Add 5 - 10 drops Methyl Orange indicator.
4. Add 0.72 Hydrochloric Acid drop wise until the solution turns red.
5. Record the number of drops used.

Calculation

Concentration (% Vol) = # Drops of 0.72 N HCl x 0.33

Waste Disposal

Discharge rinse waters and spent solutions to a permitted disposal system. To be completely informed on the latest regulations for your area, please contact the local authorities.

Caution

Aquaease SL 80 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.

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

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