Aquaease™ PL 200

Aquaease PL 200 is a liquid, moderately alkaline, phosphate-free soak, spray, ultrasonic, and electro-cleaner for ferrous and non-ferrous metals. It may also be used on aluminum when used at low concentrations (5% or less) and temperatures below 140°F.

Aquaease PL 200 is effective at cleaning all soils including chlorinated and sulfurized oils from most metals. It is effective at performing the six essential steps in soil removal.

1. Wetting the soil
2. Saponifying animal or vegetable oils and fats
3. Emulsifying mineral oils and greases
4. Deflocculating dirt
5. Suspending soils
6. Preventing soil redeposit ion.

Features & Benefits

Liquid product, easy to add, readily soluble in water at any temperature	One product will safely clean a variety of metals.
Will separate some types of lubricants from Aquaease PL 200	Cleans a variety of soils

Physical Data

Specific gravity	1.28
Solubility in water	Complete
Appearance and odor	Amber liquid
pH	13.0 – 14.0

Operating Conditions

Concentration	2% – 20%
Temperatures	120°F – 90°F
Immersion time	As required

Equipment	Mild steel, stainless steel, or Polypropylene tanks

Note: Aquaease PL 200 should never be carried directly into an alkaline etching solution when it is used for cleaning of aluminum. The work must always be rinsed prior to alkaline etching.

Titration Method

1. Pipette a 10 mL sample of cleaner solution into a 250 mL Erlenmeyer flask and dilute to 100 mL with water.
2. Add 5 to10 drops of Phenolphthalein indicator.
3. Titrate with 0.5 N Hydrochloric Acid until the solution turns from pink to colorless.
4. Record mL used.

Calculation

Concentration = mL 0.5 N HCl x 1.27

Test Kit Method

1. Fill test kit bottle 1/2 way with water.
2. Using a syringe measure out a 1 mL sample of Aquaease PL 200 and transfer it into the test kit bottle.
3. Add 5 to10 drops Methyl Orange indicator.
4. Add 0.72 N Hydrochloric Acid solution drop wise while mixing until the solution turns from yellow to reddish - orange.
5. Record the number of drops used.

Calculation

Concentration = # Drops of 0.72 N HCl x 0.625

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 PL 200 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

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].