Aquaease® PL 732

Aquaease PL 732 is a mildly alkaline, extremely low-foaming liquid cleaner for application in all types of power spray machines: monorail conveyor, continuous belt, spiral (helical screw), or cabinet washers. Aquaease PL 732 may be used to clean ferrous metals, copper, brass alloys, bronzes, aluminum alloys, stainless steel and nickel-clad stock. Aquaease PL 732 will clean a variety of metal processing lubricants--synthetic lubricants, sulfurized and chlorinated oils, lard oil based, etc.

It may be used as a spray or immersion cleaner and may be used with ultrasonic. It generally will not etch highly polished surfaces.

Aquaease PL 732 finds wide application in washing highly finished surfaces such as bearing parts, deep drawn cosmetic cases, or stainless steel strip. Aquaease PL 732 is free rinsing and leaves no residues on the substrate surface. These features are important if parts will enter heat-treating furnaces after cleaning. Many power wash cleaners can leave undesirable alkaline residues, which may foul the furnace over time. It is also an important characteristic if parts are to be plated or coated with an organic film such as paint.

Aquaease PL 732 is also excellent cleaner for use in five stage iron and zinc phosphate lines. The clean surface will facilitate the production of the very smooth phosphate coatings.

Aquaease PL 732 meets Boeing material specifications for designation HMS20-1267/1175 Compound, Flushing.

This product contains phosphate builders, please consult with your EHS staff regarding waste disposal requirements.

Features & Benefits

Tends to split oils and most non-water-soluble metal working fluids from the cleaner	Silicate and chelating agent free; Ideal for use where heat-treating follows cleaning operations

Contains no caustic, borates, solvents, nitrates, or nitrites	Mixes readily with cold water

Physical Data

Specific gravity	1.19
Solubility in water	Complete
Appearance and odor	Pale yellow liquid, mild sweet odor
pH	8.0 – 9.0

Operating Conditions

Concentration	1% – 10% Optimum 5% for most applications
Temperature	100°F – 180°F (38°C – 82°C)
Equipment	Mild steel or stainless-steel tanks and heating coils

Aquaease PL 732 may be operated in a wide temperature range, 100°F to 180°F. Lower temperatures may be used for light soils, while higher temperatures may be required for heavy oils.

Titration Method

1. Pipette a 50 mL sample into a 250 mL Erlenmeyer flask and dilute with 100 mL water.
2. Add 7 drops Methyl Orange indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until a color change of yellow to orange occurs.
4. Record mL used.

Calculation

Concentration = mL 0.5 N HCl x 0.56

Test Kit Method

1. Fill test bottle 1/4 full of water.
2. Add 5 mL Aquaease PL 732 solution to the bottle, using the 5 mL syringe.
3. Add 3 to 8 drops Methyl Orange indicator.

4. Add drop wise 0.72 N Hydrochloric Acid until solution turns from yellow to red orange.
5. Record number of drops used.

Calculation

Concentration = # Drops of 0.72 N HCl x 0.30

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 732 is a mildly 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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