

Aquaease[®] PL 72 A32

Aquaease PL 72 A32 is a versatile, mildly alkaline, non-chelated, non-silicate liquid cleaner for use in spiral spray (helical screw) washers, spiral scoop washers, immersion tanks, and “up and down” dip machines. It may be used for cleaning ferrous metals, copper, brass, bronze, aluminum alloys, nickel clad steel, stainless steel, and zinc die-castings.

Aquaease PL 72 A32 may be used to clean a variety of synthetic lubricants and coolants, quench oils, stamping and drawing lubricants. It can be used with ultrasonic in immersion cleaning operations.

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

Features & Benefits

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|---------------------------|--|
| Silicate and nitrite free | Ideal for cleaning before heat treating operations |
| Low foaming | Effective at lower temperatures |
| Non-chelated | Easily waste treated |
| Mildly alkaline | Safe on multiple metals |
| Inhibitor package | Temporary corrosion protection for copper alloys |

Physical Data

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|---------------------|----------------------------------|
| Specific gravity | 1.18 |
| Solubility in water | Complete |
| Appearance and odor | Yellow to amber, mild sweet odor |
| pH 10% solution | 7.5 – 8.5 |
| pH concentrate | 8.0 – 9.0 |



Cleaning
the Hard to Clean



Finishing
the Hard to Finish



Treating
the Hard to Treat

Operating Conditions

When processing aluminum alloys or zinc die-castings, the operating temperature of the Aquaease PL 72 A32 should not exceed 140°F (60°C).

Spiral washer Operation

| | |
|---------------|-----------------------------|
| Concentration | 1% – 5% |
| Temperatures | 130°F – 160°F (55°C – 72°C) |

Soak or AGI-dip Operations

| | |
|---------------|---|
| Concentration | 5% – 15% |
| Temperatures | 130°F – 180°F (55°C – 83°C) |
| Equipment | Mild Steel, 304, or 316 stainless steel |

Note: Heat to 120°F before operating spray washer to prevent foam formation.

Titration Method

1. Pipette a 50 mL sample into a 250 mL Erlenmeyer flask and dilute with 100 mL water.
2. Add 8 to 10 drops Methyl Orange indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until a color change of yellow to pink occurs.
4. Record mL used.

Calculation

$$\text{Concentration} = \text{mL } 0.5 \text{ N HCl} \times 0.58$$

Test Kit Method

1. Fill test bottle ¼ full of water.
2. Using a syringe measure out a 5 mL sample of Aquaease PL 72 A32 working solution and transfer it into the test kit bottle.
3. Add 8 to 10 drops of Methyl Orange indicator.
4. Add 0.72 N Hydrochloric Acid dropwise until the solution turns from yellow to pink orange.
5. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops of } 0.72 \text{ N HCl} \times 0.36$$

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

Even though Aquaease PL 72 A32 is a mildly alkaline liquid one should wear protective clothing and goggles when handling this product. If exposed, flush thoroughly with clear, cold water. In case of injury contact a doctor. Consult SDS for more information.

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

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