



Product Bulletin

Better Chemistry. **Better Business.**

Aquaease™ PL 72 A32

Product Code: 2053006

Revised Date: 2/26/2016

Aquaease™ PL 72 A32

DESCRIPTION

Aquaease™ PL 72 A32 is a versatile, mildly alkaline, non-chelated, non-silicated 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 ultrasonics in immersion cleaning operations.

FEATURES AND BENEFITS

- Liquid concentrate
- Chelating agent free
- Silicate free
- Nitrite free
- Offers temporary corrosion resistance on copper and brass
- Mild pH
- Can be used in spray and soak equipment
- Easily waste treated
- Splits most oils
- Can be used on a variety of metal substrates



Better Chemistry. **Better Business.**

Aquaease™ PL 72 A32

**Product Code: 2053006
Revised Date: 2/26/2016**

TYPICAL APPLICATIONS

- Spray cleaning
- Immersion soak cleaning
- In process cleaning
- Ultrasonic cleaning
- Cleaning prior to plating
- Cleaning prior to painting
- Cleaning prior to metal coloring.

PHYSICAL DATA

Specific Gravity..... 1.178
 Solubility in water.....complete
 Appearance and odor pale yellow liquid, mild sweet odor
 pH (conc.) 8.0 To 9.0

OPERATING PARAMETERS

Note: 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% to 5% (vol.)
 Temperatures: 130-160 F (55° - 72°C)

SOAK OR AGI-DIP OPERATIONS

Concentration: 5 to 15% (vol.)



Better Chemistry. **Better Business.**

Aquaease™ PL 72 A32

Product Code: 2053006
Revised Date: 2/26/2016

Temperatures: 130-180 F (55° - 83°C)
Time: as required

Agitation of work or solution is beneficial.

Ventilation: Optional (only water vapor is given off)

Equipment: Tanks and heating coils may be fabricated mild steel.

SPIRAL WASHER MACHINE FOR CLEANING STEEL

1. Spray/immersion clean **Aquaease™ PL 72 A32**, 5% (vol.), 160 F. (72°C).
2. Cold water spray rinse
3. Cold water spray rinse
4. Inhibited final hot rinse, Metal Guard® 800, 1 to 2% (vol.).
5. Dry, either with cob meal or hot air.

Note: Metal Guard® 800 was introduced to prevent rusting of steel. However, depending upon the specific process, a Metal Guard® may not always be required.

CONTROLS

TEST KIT PROCEDURE

1. Fill test bottle ¼ full with 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 8-10 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 drops of 0.72 N Hydrochloric Acid used.

% by vol Aquaease PL 72 A32 = 0.36 X drops of 0.72 N Hydrochloric Acid

TITRATION PROCEDURE

1. Pipette a 50 ml sample into a 250 ml Erlenmeyer flask and dilute with 100 ml water.
2. Add 8 - 10 drops Methyl Orange indicator and mix.



Product Bulletin

Better Chemistry. **Better Business.**

Aquaease™ PL 72 A32

Product Code: 2053006

Revised Date: 2/26/2016

3. Titrate with 0.5 N Hydrochloric Acid until a color change of yellow to pink occurs.
4. Record the number of mls of 0.5 N Hydrochloric Acid used.

Aquaease PL 72 A32 (% VOL.) = 0.58 X mls 0.5 N HCL

CAUTION

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

WASTE DISPOSAL

Discharge rinse water 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.

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.