



Aquaease™ PL 735

Product Code: 2053044

Revised Date: 3/2/2016

Aquaease™ PL 735

Aquaease™ PL 735 is a moderately alkaline (pH 11 to 11.5), highly chelated, low-foaming liquid cleaner for application in any of the following types of power spray machines: monorail conveyor, continuous belt, spiral washers or cabinet. It may also be used as a soak cleaner or an ultrasonic cleaner.

Aquaease™ PL 735 may be used to clean ferrous metals, copper, brass alloys, bronze alloys, stainless steel, nickel, and nickel-clad stock. The **Aquaease™ PL 735** will clean a variety of metal processing lubricants; synthetic lubricants, sulfurized and chlorinated oils, lard oil based, etc. It is very effective at removing zinc phosphate and soap based lubricants from drawn steel substrates.

Aquaease™ PL 735 was designed primarily to remove zinc phosphate and soap based lubricants from draw steel parts where the customer desires a lower pH (11 to 11.5) than that offered by caustic based cleaners (pH 13 to 14). It can be used for in process cleaning between draws or prior to heat treatment. **Aquaease™ PL 735** has very high free rinsing and non-residue forming properties which are very desirable if parts are to enter heat-treating furnaces after washing. Caustic and silicated cleaners can leave undesirable alkaline residues, which can foul the furnace over time.

Aquaease™ PL 735 is also ideal as the first alkaline cleaner in phosphating lines. The cleaned surfaces are well suited for the production of the smoothest and finest phosphate coatings.

ADVANTAGES

- Low foam to no foam product.
- Liquid form makes it easy to add. No dangerous splatters or dissolution problem.
- Mixes readily with cold water.
- Contains no cyanides, silicates, caustic, nitrates or nitrites.
- Silicate and nitrite free cleaners are ideal for use where heat-treating follows cleaning operations.
- Biodegradable surfactant system.
- Tends to split most oils from cleaner.



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TYPICAL OPERATING PARAMETERS

Concentrations: 2 to 10% (volume) optimum 5% (vol.) for most applications
Temperatures: 150. to 180 F (49 to 82 C).
Equipment: Mild steel tanks and heating coils

Aquaease™ PL 735 may be operated at a wide temperature range, 120F to 200F. Low temperatures may be used for light soils, while higher temperatures are recommended for removing phosphates and lubes or heavy oils.

CONTROLS

Test Kit Procedure

1. Fill test bottle $\frac{1}{4}$ with water.
2. Using syringe, add 5 mls **Aquaease™ PL 735** solution to the bottle
3. Add 5 drops Methyl Orange indicator.
4. Add dropwise 0.72 N Hydrochloric Acid until solution turns from yellow to red-orange.
5. Record number drops 0.72 N Hydrochloric Acid used.

$$\% \text{ (Volume) Aquaease™ PL 735} = 0.263 \times \text{Drops } 0.72 \text{ N Hydrochloric Acid}$$

Titration Procedure

1. Pipette a 50-ml sample into a 250-ml Erlenmeyer flask and dilute with 100-ml water.
2. Add 7 drops methyl orange indicator and mix.
3. Titrate with 0.5 N HCl until a color change of yellow to orange-pink occurs.
4. Record mls of 0.5 N HCl used.

$$\text{Concentration \% (Volume)} = 0.379 \times \text{MLS } 0.5 \text{ N HCl Used}$$

CAUTION

Aquaease™ PL 735 is an alkaline product (pH of the concentrate being 11 to 11.5) and should be handled accordingly. **Read and thoroughly understand the material safety data sheet for**



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Aquaease™ PL 735 prior to handling or working with it. Avoid skin and eye contact. Wear protective clothing, goggles, and gloves. If skin or eye contact does occur, flush exposed areas immediately with clean cold water for at least 15 min. Contact a doctor promptly if eye contact has occurred.

WASTE DISPOSAL

Discharge rinse waters and spent solutions to a permitted wastewater treatment 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.