



Better Chemistry. **Better Business.**

Aquaease™ PL 111

Product Code: 2053001
Revised Date: 2/26/2016

Aquaease™ PL 111

DESCRIPTION

Aquaease™ PL 111 is a heavy duty, low-foaming alkaline liquid cleaner for application in any of the following types of power spray machines: monorail conveyor, continuous belt, spiral washers or cabinet. Aquaease™ PL 111 was specifically developed to replace a vapor degreasing operation with a power spray washer system to facilitate a high rate of workflow.

Aquaease™ PL 111 may be used to clean ferrous metals, copper, brass alloys, bronzes, stainless steel and nickel clad stock. Aquaease™ PL 111 will clean a variety of metal processing lubricants such as synthetic lubricants, sulfurized, chlorinated, lard based lubricants and drawing oils.

FEATURES AND BENEFITS

- Low foam
- Concentrate liquid
- High detergency
- Splits oil
- Biodegradable wetting / detergent system
- Can be used on multiple metals

TYPICAL APPLICATIONS

- Conveyer spray cleaning
- Reel to reel spray cleaning
- Strip mill spray cleaning
- Turbo wash cleaning



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PHYSICAL DATA

Specific gravity	1.113
Solubility in water.....	infinite
Appearance and odor	clear amber liquid
pH (conc.).....	14.0

OPERATING PARAMETERS

Concentrations: 2 to 8% (volume) - optimum 5% (vol.) for most applications
Temperatures: 120°F to 200°F (49° to 94°C)
Equipment: mild steel tanks and heating coils.

Aquaease™ PL 111 may be operated at a wide temperature range, 120°F to 200°F. The lower range, 120°F to 140°F, should be selected for cleaning non-ferrous metals.

Operating the **Aquaease™ PL 111** solution at 135°F and above will provide a non-foaming spray cleaner; operating below 130°F will give a low foaming cleaner.

Procedures for determining concentrations of **Aquaease™ PL 111**

TITRATION PROCEDURE

1. Measure a 100 ml sample into a 250 ml Erlenmeyer flask.
2. Add 4-8 drops Phenolphthalein indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until the color changes from pink to colorless.

Aquaease PL 111 (% VOL) = mls of 0.5 N Hydrochloric Acid x 0.44

TEST KIT PROCEDURE

1. Using syringe, place a 10 ml sample into the mixing bottle
2. Add approximately 25 mls of water.
2. Add 5-8 drops Phenolphthalein indicator.
3. Add 0.72 N Hydrochloric Acid drop wise until pink color disappears.
4. Record drops used.



Product Bulletin

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Aquaease PL 111% (VOL) = 0.22 X drops 0.72 N Hydrochloric Acid

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.

CAUTION

Aquaease™ PL 111 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.