



# Aquaease™ PL 24

Aquaease PL 24 is an alkaline, low-foaming liquid cleaner for application in any of the following types of power spray machines: monorail conveyor, continuous belt, spiral washers or cabinet.

Aquaease PL 24 was developed to clean ferrous metals, Stainless Steel and nickel clad stock. The

Aquaease PL 24 will clean a variety of metal processing lubricants -- synthetic lubricants, sulfurized and chlorinated oils, lard oil based, etc.

Another feature of the Aquaease PL 24 is that it will provide some "in process" corrosion protection of ferrous metals after they have been cleaned.

Aquaease PL 24 may be operated at a wide range of temperatures - from 100°F (37°C) to 200°F (94°C). Its application as a low temperature spray cleaner is an advantage in areas where energy costs are becoming a major factor in a metal finishing operation.

## Features & Benefits

Silicate and phosphate free; ideal for use where heat-treating follows the cleaning operations.	Liquid form makes it easy add. No dangerous spatters or dissolution problem.
Separates oil from cleaner	Biodegradable surfactant system

## Physical Data

Specific gravity	1.20
Solubility in water	Complete
Appearance and odor	Light yellow liquid, mild detergent odor
pH	14.0



## Operating Conditions

Concentration	2% – 5%
Temperature	100°F – 200°F (37°C – 94°C)
Equipment	Mild steel tanks and heating coils

## Titration Method

1. Pipette a 50 mL bath sample into a 250 mL Erlenmeyer flask and dilute with 50 mL. of distilled water.
2. Add 4 drops Phenolphthalein indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until the color changes from pink to colorless.
4. Record mL used.

Calculation

$$\text{Concentration} = \text{mL } 0.5 \text{ N HCl} \times 0.41$$

## Test Kit Method

1. Fill bottle 1/4 full of water.
2. Add 10 mL bath sample and add 7 drops Methyl Orange indicator.
3. Add 0.72 N Hydrochloric Acid solution dropwise until color changes from yellow to orange.
4. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops of } 0.72 \text{ N HCl} \times 0.125$$

## Waste Disposal

Discharge Aquaease PL 24 solution into a disposal unit. Neutralize with mineral acid to a pH between 6 to 8. In order to be completely informed on the latest disposal regulations for your area, please contact the local authorities.

## Caution

Aquaease PL 24 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.



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