

Emerald™ Super Soak

Emerald Super Soak is a mildly alkaline liquid product, which was developed for use in immersion and immersion / ultrasonic cleaning operations. It is suitable for use on steel, stainless steel, brass, copper, bronze, and zinc substrates. It may also be used on aluminum substrates but will impart a slight etch to the surface. Emerald SS AL Additive may be added to working solutions at a concentration of 1-2% by volume to completely stop the etching of aluminum.

Emerald Super Soak will remove a variety of forming and machining lubricants (synthetic, petroleum base, sulfurized, etc.). When used with ultrasonic equipment it will effectively remove most buffing compound residues and particulate soils.

Features & Benefits

Highly concentrated liquid	High detergency
DfE compliant surfactant system	Contains no hazardous materials
pH-operating range: 9.7 – 9.9	Free rinsing, rinses to a non-water-break surface

Physical Data

Specific gravity	1.11
Solubility in water	Complete
Appearance and odor	Water white liquid, fruity odor
pH (conc)	9.5 – 10.0

Operating Conditions

Concentration	5 – 10% (vol)-suggest 5% for most applications
Temperatures	120°F – 190°F
Equipment	Mild steel tanks and heating coils

Titration Method

1. Pipette a 50 mL sample into a 250 mL Erlenmeyer flask.
2. Add 4 drops Methyl Orange indicator and mix.
3. Titrate with 0.5 N Hydrochloric Acid until the color changes from yellow to orange.
4. Calculation

$$MLS \text{ OF } 0.5N \text{ Hydrochloric Acid} \times 0.63 = \% \text{ (Vol)} \quad \textit{Emerald Super Soak}$$

Test Kit Method

1. Fill sample bottle one third full of water.
2. Add 2 mL cleaner solution.
3. Add 8 drops Methyl Orange indicator solution.
4. 0.72 Hydrochloric acid dropwise until color turns from yellow to orange. Record number of drops used.

Calculation

$$\% \text{ (Vol) Emerald Super Soak} = 1 \times \text{number of drops of } 0.72N \text{ hydrochloric acid}$$

Waste Disposal

Discharge to a disposal system. To be completely informed on the latest regulations for your area, please contact the local authorities.

Caution

Emerald Super Soak 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.

Our people. Your problem solvers.

For more information on this process please call us at

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