Spotless™ ESS

Spotless™ ESS is a liquid surfactant fusion system when combined with liquid caustic soda forms a robust effective cleaning solution for steel. Spotless™ ESS is ideal for use prior to phosphating. It is an economical cleaning solution that is environmentally friendly since it is silicate free, nitrite/nitrate free, phosphate free, and does not contain nonylphenol ethoxylate (NPE). Furthermore, it is RoHS compliant (no lead, no mercury, no chromium or other trace metals detected).

Features/Benefits

- NPE-free, Silicate-free, Nitrite/Nitrate free, and Phosphate-free to meet local discharge requirements.
- Surfactant fusion system uniqueness produces effective low-foam electro, soak and spray cleaning with excellent detergency.
- Provides stain-free and smut-free surfaces with excellent rinsability properties that reduce drag-out losses and contamination of subsequent process.
- Cleaner dissolves scale with or without current.
- Faster, economical, more efficient removal of petroleum-based lubricants, water-soluble lubricants and tallow-based buffing compounds.
- Wide operating temperature range.
- Non-hazardous liquid detergent for safe storage and handling.
- Cost effective by working with your bulk Caustic Soda.
- Highly concentrated to minimize handling and drum disposal.
- Designed for use with your ultra-filtration.
- RoHS compliant (no lead, no mercury, no chromium, or other trace metals).

Equipment

Steel tanks and heaters are preferred.

Operating Conditions

	Electro Cleaner	Soak Cleaner	Spray Cleaner
Concentrations:			
Spotless™ ESS	1-3% b.v.	2% b.v.	3-10% b.v.
Caustic Soda 50%	3-4% b.v.	2.5-3.5% b.v.	3-4% b.v.
Temperature	60 - 93°C	71 - 93°C	54 - 93°C
Current	30 – 100 A.S.F.		

Replenishment

Analyze for caustic soda. Adjust caustic soda level to the operating range and add Spotless™ ESS in ratio to the caustic soda addition.

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Analysis of Spotless™ ESS

Caustic Soda Analysis

Apparatus: 5 mL Volumetric Pipette, Type A
50 mL Burette, Class A
250 mL Erlenmeyer Flask

Reagents: 1 % (w/v) Phenolphthalein Indicator solution
1.0 N Hydrochloric acid (HCl)

Procedure:
1. Pipette a 5 mL sample of Spotless™ ESS solution into a 250 mL Erlenmeyer flask.
2. Add 3 – 4 drops of Phenolphthalein Indicator solution.
3. Titrate with 1 N HCl to a colourless endpoint.
4. Calculation:

MLs of 1.0 N HCl titrated = % by volume of 50% Liquid Caustic Soda

The data and statements contained in this fact sheet are based on testing information and are believed to be accurate and reliable. This fact sheet is not a Guarantee or Warranty, express or implied, regarding the products use. The product is sold on the condition that the purchaser will do their own tests to determine the suitability of the product in a particular application.

READ THE SDS BEFORE USING THIS PRODUCT.

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