AQUABOND
Chemistry for Tomorrow

Spotless™ SE

General purpose electrolytic and soak cleaner

Spotless™ SE is an alkaline powder that is mixed with water to make up a general purpose cleaner for use as a soak or electrolytic cleaner on a variety of metals; such as copper, brass, steel and zinc die castings. The alkaline powder is highly fortified surface-active agents, detergents, suspension agents, and builders. It is dissolved in water for fast, effective cleaning of metals. It contains a chrome reducer and is recommended for applications where there is limited cleaning equipment such as no secondary soak available. It is excellent for short cleaning cycles. It is recommended as a cathodic cleaner for zinc die cast and white metals. Spotless™ SE removes light buffing compounds and light oils. It is an excellent combination soak cleaner and anodic electrocleaner, for steel, and also works well as an anodic electrocleaner on brass and copper.

Features/Benefits

- Effective in hard water. It does not scum.
- It is free rinsing and has long tank life
- It has excellent chrome reducing properties, which is advantageous when racks are not stripped.
- It resists drying tendency with long transfer times when used at temperatures of 54°C (130°F) - 66°C (150°F)

Operating Conditions	**Recommended Range**
Concentration	60-75 gm/L of water (8 - 10 wt oz/gal of water)
Temperature	54 - 66°C (130-150°F)
Time	10 - 40 seconds
Voltage:	
Anodic Current	5 - 7 volts
Cathodic Current	4 - 6 volts
Cathodic Cleaning - Zinc Die Cast	0.5 - 1 volt
Amperage	15 - 20 amps per square foot

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READ THE SDS BEFORE USING THIS PRODUCT

Spotless™ SE

Solution Make Up

Dissolve the powdered Spotless™ SE in warm water, while stirring. When charging a production tank, premixing in a partially filled tank is recommended.
The Spotless™ SE solution concentration is maintained with periodic additions of cleaner to replace that consumed by removing the surface soils, and due to solution drag-out. When making replenishments to a hot cleaning solution, they should be made cautiously to avoid splattering of the solution due to heat being generated when the chemicals are dissolved. The strength of the solution is determined chemically with either a burette titration, or dropping bottle test. When cleaning solution becomes excessively contaminated with soils, it should be dumped and a new cleaning solution made up.

Equipment

Tanks should be constructed of mild steel, or stainless steel. Racks, baskets and barrels must be compatible with other metal finishing solutions used thereafter. Do not use galvanized steel, bronze, copper, tin or aluminum. Immersion heaters may be of mild steel.

Analysis

Titration Method:

1. Take a sample of the Spotless™ SE solution from the bath with a beaker, and allow it to cool to room temperature.
2. Pipette 10 ml of the sample into a clean 125-ml Erlenmeyer flask; then add 25 mls of water.
3. Add 5 drops of phenolphthalein indicator solution.
4. Titrate with 0.5N hydrochloric acid, to a complete fade of the pink colour.
5. Calculation: oz/gal of Spotless™ SE = ml. titration x 0.53

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