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Acid Salt 839

Liquid Soak Cleaner Component
Technical Data

GENERAL DESCRIPTION

Acid Salt 839 is a dry powder containing acid salts and surface active agents. **Acid Salt 839** is for use with water on all metal as a replacement for mineral acids.

NORMAL USE

Concentration	2 – 32 oz. per gallon. (15 – 360 g per L)
Temperature	60 – 180° F (60 - 82° C)
Time	15 seconds to 5 minutes

SUGGESTED OPERATING CONDITIONS

Cold rolled steel prior to nickel:

Operate at 16 oz. per gallon (120 g per L) at room temperature for 15 seconds to 2 minutes.

Hot rolled steel, welded steel or heat treated parts:

Operate at 16 oz. per gallon (120 g per L) at 130° F (55° C) for 30 seconds to 5 minutes.

Zinc Die Castings:

Operate at 4 oz. per gallon (30 g per L) at room temperature for 30 seconds.

Copper Plated or Buffed Brass:

Operate at 8 oz. per gallon (60 g per L) at room temperature for 10 seconds to 1 minute.

Nickel Activation:

Operate at 16 oz. per gallon (120 g per L) at 120° F (49° C) for 1 minute.

Chrome Stripping:

Operate at 16 to 32 oz. per gallon (120 – 240 g per L) at 180° F (82° C) for 1 to 3 minutes.

Activation and scale removal using current:

Cathode (work as cathode)

Current Density	45 – 100 ASF (4.5 – 10 ASD)
Voltage	1 – 6 Volts
Anodes	Graphite (AGR Type)
Anode/Work Area	2 : 1

EQUIPMENT REQUIREMENTS

Tanks:

Koroseal lined tank satisfactory to 150° F (66° C). High temperature rubber is recommended for temperatures exceeding 150° F (66° C). At room temperature, rubber, polyethylene, PVC or polypropylene are satisfactory.

Heating Coils:

Karbate, Graphite, Teflon

Ventilation:

Positive ventilation is required when solution is heated or when current is used. All ducting and blowers must be chemical resistant.

SOLUTION MAKE-UP

To make solution, fill tank 2/3 full of water and stir in dry salts until powder is dissolved. After **Acid Salt 839** is added to the solution, adjust the level and temperature to operating conditions.

NORMAL CONTROL

Analytical Method (Equipment available from Chautauqua Chemicals Co.)

1. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask.
2. Add 50 mL of distilled water.
3. Add 3-5 drops of bromcresol green indicator.
4. Titrate with 0.50N sodium hydroxide until solution turns green.
5. Calculation: Concentration of **Acid Salt 839** (ounces per gallon) = mLs of 0.50N NaOH x 0.98
   Concentration of **Acid Salt 839** (grams per liter) = mLs of 0.50N NaOH x 7.34

HANDLING AND SAFETY CONSIDERATIONS

Consult MSDS sheet on this product for handling considerations, hazard information, and first aid procedures.

OTHER INFORMATION

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