

# Mirapic AS-839L

Liquid Acid Salts

*Technical Data*

## GENERAL DESCRIPTION

**Mirapic AS-839L** is a liquid version of **Acid Salt 839**. It is a blend of acid salts and surfactants. **Mirapic AS-839L** is used for activating steel, copper alloys, and zinc.

Unlike conventional mineral acids, dilution with water products produces less heat. Normal precautions when working with mineral acids should be observed.

## NORMAL USE

Concentration	10 – 100% by volume.
Temperature	60 - 180° F (16-82° C)
Time	15 seconds to 5 minutes

## SUGGESTED OPERATING CONDITIONS

### **Cold rolled steel prior to nickel:**

Operate at 50% at room temperature for 15 seconds to 2 minutes.

### **Hot rolled steel, welded steel, or heat treated parts:**

Operate at 50% at 130° F (55° C) for 30 seconds to 5 minutes.

### **Zinc Die Castings:**

Operate at 25% at room temperature for 30 seconds.

### **Copper Plated or Buffed Brass:**

Operate at 35% at room temperature for 10 seconds to 1 minute.

### **Nickel Activation:**

Operate at 50% at 120° F (49° C) for one minute.

### **Chrome Stripping:**

Operate at 16 – 59 ounces per gallon (120 – 440 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:

Karbate, graphite, Teflon.

## 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 till solution turns green.
5. Calculation: Percent Concentration of **Mirapic AS-839L** = mLs of 0.50N NaOH x 4.2

## 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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