

ACCU-LABS INC.

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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

139 Electro-Don *Concentrated Cleaner for Steel*

ACCU-LABS 139 Electro-Don has been formulated as a heavy duty soak cleaner to effectively clean steel in rack and barrel applications. Because of its high alkalinity, **ACCU-LABS 139 Electro-Don** can also be used as an electrocleaner when single-stage cleaning is required.

Features and Benefits

Highly concentrated.....Lower production cost
Emulsion-type detergent system.....Soils do not redeposit on work
Chelate-free.....Easily waste treated
Versatile.....Can double as an electrocleaner

Operating guidelines for ACCU-LABS 139 Electro-Don

Concentration.....6 - 12 ounces per gallon
Temperature.....120 - 170°F (50 - 80°C)
Immersion time.....1 - 5 minutes

Makeup guidelines for ACCU-LABS 139 Electro-Don

- 1) Drain spent cleaner solution. Clean and rinse all equipment.
- 2) Fill cleaner tank approximately $\frac{2}{3}$ full with water.
- 3) Add the required amount of **ACCU-LABS 139 Electro-Don**. We suggest an initial concentration of 8 - 10 ounces per gallon. Experience will determine whether you may need to adjust your concentration slightly higher or lower.
- 4) Fill tank to working volume and mix thoroughly.
- 5) Heat tank to operating temperature. We have found that most soils are removed efficiently at 140°F (60°C). Again, your experience is the best guide for temperature.
- 6) Solution is now ready for production.

Additional guidelines for using 139 Electro-Don

- 1) As soils and workloads vary widely between operations, no single combination of conditions will work in all applications. It is best to review existing production guidelines before charging up a new solution.
- 2) Consider all aspects of the plating line to determine exactly what is expected in terms of performance. For instance, you may be seeking a direct substitute at a lower cost. Or you may want to increase production speed, and improving the cleaning stage is essential. Or you may need to enhance cleaning because of a change in bath type, such as cyanide to alkaline zinc. These are all important in evaluating a cleaner's performance.
- 3) **ACCU-LABS 139 Electro-Don** rinses well and should be followed by thorough rinsing before electrocleaning and pickling stages. Insufficient rinsing often produces other problems down line and may result in plating solution contamination.
- 4) Maintaining the temperature of the cleaning solution within the operating range is very important. Detergent systems are formulated to work within specific ranges and excess heat can be worse than reduced temperatures.

Titration Procedure:

10 ml sample diluted to 50 ml with DI water
10 drops of methyl orange indicator
Titrate with 1.00 N HCL or H₂SO₄ to red endpoint
Cleaner (oz/gal) equals titration X 0.8 = oz/gal

Safety and handling

ACCU-LABS 139 Electro-Don and its working solutions contain caustic soda. Avoid splashing onto skin and into eyes. Both powdered material and working solutions may cause chemical burns and blindness. Use only with suitable protective clothing. Wash thoroughly after any work with this product. Refer to Material Safety Data Sheet for more complete information. Handle this and all chemicals with care.

Non-warranty

The information contained in this bulletin is, to the best of our knowledge, true and accurate. All recommendations are made without guarantee. Accu-Labs disclaim any and all liability arising from the use of this product or the information contained herein.