

ACCU-LABS INC.

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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

134-B Soak/Electrocleaner

Powdered Soak/Electrocleaner for Mixed Metals

ACCU-LABS 134-B Soak/Electrocleaner works quickly and effectively to remove soils from all metal surfaces - steels, copper alloys, zinc, and aluminum - without etching. **ACCU-LABS 134-B Soak/Electrocleaner** rinses freely and, when used properly, will not contaminate subsequent stages in the plating line.

Features and Benefits

Highly concentrated

Emulsion-type detergent system

Chelate-free

Lower production cost

Cleans better as solution ages

Waste treatment friendly

Operating Guidelines for ACCU-LABS 134-B

Concentration

8 - 16 ounces per gallon

Temperature

100 - 170 °F

Immersion time

1 - 5 minutes

Current

6 - 9 volts typical

Preparing the ACCU-LABS 134-B bath

- 1) Drain spent cleaner solution. Clean and rinse all equipment.
- 2) Fill cleaner tank approximately $\frac{3}{4}$ full with clean water.
- 3) Add the required volume of **ACCU-LABS 134-B Soak/Electrocleaner**. 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) Mix thoroughly, until all solids are dissolved.
- 5) Fill tank to working volume and mix thoroughly.
- 6) Analyze a sample of the bath to verify concentration. See analytical procedure on the next page. Make any required adjustments to the concentration.
- 7) 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.
- 8) Solution is now ready for production.

Analytical control for ACCU-LABS 134-B

- 1) Draw a representative sample of each cleaner solution and allow cooling.
- 2) Draw a 10-ml sample of each bath and place into a clean Erlenmeyer flask.
- 3) Add 50 ml deionized or distilled water and 1 ml methyl orange indicator.
- 4) Titrate against 1.00 N hydrochloric acid to red endpoint.
- 5) Titration x 1.00 equals ounces per gallon of **ACCU-LABS 134-B**

Note: Many modern metalworking fluids contain chemicals which can interfere with this analysis. An alternate method is available if this is the case with your operation. Contact your ACCU-LABS, Inc., sales representative.

Safety and handling

ACCU-LABS 134-B and its working solutions are moderately alkaline in nature. Avoid splashing onto skin and into eyes. Wear protective gear and eye protection when handling. Wash thoroughly after any work with this product. Refer to Material Safety Data Sheet for more complete information.

Non-warranty

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