

# ACCU-LABS INC.

4831 S. Whipple Avenue  
Chicago IL 60632  
Phone: 773.523.3100 Fax: 773.523.4008  
[www.accu-labs.com](http://www.accu-labs.com)

**A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01**

## **133-EL HEAVY DUTY ELECTRO-CLEAN LIQUID FOR STEEL**

**ACCU-LABS 133-EL** is a highly alkaline, heavy-duty electrocleaning liquid for use on steel parts before electroplating. **ACCU-LABS 133-EL** is a superior low foaming electroclean formulation. It has excellent detergent properties, long operating life and is free rinsing. During electrolysis, a compact foam blanket will develop. Liquid soils will tend to be dragged out with the foam and solid soils are well dispersed and will not re-deposit on the work during transfer or rinsing.

### **OPERATING GUIDELINES:**

Concentration	5-10% by volume <b>ACCU-LABS 133-EL</b>
Temperature	130-200°
Work Current	Anodic
Current Density	25-200 amp/sq ft.
Time	1-5 minutes

**CONTROL:** Titrate a 10 ml sample of the cleaning solution with 1.0 Normal Hydrochloric Acid using Phenolphthalein Indicator.

Ml of 1.0 Normal Acid x 0.8 = percentage by volume **ACCU-LABS 133-EL**

**SAFETY:** This product is highly alkaline. Protective gear should always be used when handling this product. In case of contact with skin or eyes, flush immediately with cold water and contact physician. Read the Material Safety Data Sheet before using.

### **NON-WARRANTY**

*THE INFORMATION CONTAINED IN THIS BULLETIN IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL. ACCU-LABS, INC. DISCLAIMS ANY AND ALL LIABILITY ARISING FROM THE USE OF THIS PRODUCT OR THE INFORMATION CONTAINED HEREIN.*