



## Product Data Sheet

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**PRODUCT #: N8130**

# **CHEMBOND 300**

One Step Cleaner/Adhesion Promoter

### **DESCRIPTION:**

A single step, acidic cleaner and adhesion promoter for inner layers, flex material and rigid laminate prior to resist lamination. **CHEMBOND 300** removes oxidation, light organic soil and the chromate conversion coating. It forms a surface treatment that resists tarnishing and enhances resist stripping, eliminating resist lock-on. **CHEMBOND 300** will not act as a microetch.

### **BENEFITS:**

- **Efficient one-step process eliminates need for microetch**
- **Promotes excellent resist adhesion with no lock-on**
- **Produces tarnish resistant surface**
- **Removes oxides and chromate coating**

### **SPECIFICATIONS:**

<b>Specific Gravity:</b>	1.14 gm/ml, 9.5 lbs./gal.
<b>Flash Point (TCC):</b>	None
<b>pH:</b>	< 1
<b>VOC Content:</b>	0

### **INSTRUCTIONS:**

Concentration:	10% by volume with water
Temperature:	85 – 95°F.
Dwell time:	Spray 30 – 45 seconds Soak 60 – 90 seconds

Use low pressure (10-15 PSI) in spray equipment to minimize foaming. Follow with a thorough water rinse (double rinse recommended), and dry.

**CHEMBOND 300** will treat approximately 2000 square feet of copper surface per gallon of concentrate. To monitor effectiveness, test a panel for water break surface. If the water sheets and does not break, analyze working solution according to procedure on reverse, and add concentrate to maintain the concentration above 90% of original make-up. The working solution is considered spent at a copper content of approximately 2000 ppm, depending on specifics of the application.

Equipment or tanks should be constructed of polyethylene CPVC, PVC or polypropylene. Heaters should be Teflon® or quartz.

### **CAUTIONS:**

Acidic solution. Wear safety glasses or goggles, gloves and protective clothing when handling this product. In case of contact with eyes, flush immediately with water and obtain medical attention. In case of contact with skin, wash with soap and water. Refer to Material Safety Data Sheet for further information.

**DISPOSAL:** Neutralize and treat for copper. Dispose of in accordance with all local, state and federal regulations.

**ANALYSIS:** **CHEMBOND 300** Solution Strength Analysis

**Materials required:**

5 ml pipette	Eye dropper
50 ml burette	1.0N Sodium Hydroxide (NaOH) standard solution
250 ml Erlenmeyer	Phenol Red indicator solution
Flask or 250 ml beaker	pH meter (optional)

**Procedure:**

1. Pipette a 5 ml sample of **CHEMBOND 300** working solution into a 250 ml Erlenmeyer flask or beaker, and add 100 mls distilled water.
2. Add 10 drops of phenol red indicator, and mix.
3. Titrate with 1.0N sodium hydroxide until the color changes from yellow to bright pink.

**OR**

Titrate using a pH meter to a pH of 9.7.

**Calculation:**  $\text{mls of NaOH} \times \text{N of NaOH} \times 3.77 = \% \text{CHEMBOND 300}$

This product should be used only for its intended purpose. The information stated above is based on our laboratory tests and experience, and is accurate to the best of our knowledge. Since actual use is beyond our control, the recommendations or suggestions are made without warranty, expressed or implied.