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## Product Data Sheet

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**PRODUCT #: N8597**

# *ADF-25C*

Aqueous Photoresist Stripper Concentrate

### **DESCRIPTION:**

A highly concentrated product formulated to remove today's newest dry film resists in soak or spray applications, at 5% concentration. *ADF-25C* breaks dry films into particles suitable for filtration. It also protects panels from staining caused by dyes in the photoresists. *ADF-25C* demonstrates consistently high loading capabilities and contains an enhanced copper brightening and antitarnish package. This enables it to produce bright, uniform copper surface for automatic optical inspection and better etching capabilities.

### **BENEFITS:**

- **Highly concentrated, economical alternative**
- **Protects against stains**
- **Long life; high capacity**
- **Excellent cosmetics - bright copper and tin/lead**

### **SPECIFICATIONS:**

<b>Density:</b>	1.04 gm/ml, 8.6 lbs./gal.
<b>pH at 10% :</b>	13.1
<b>Flash Point (TCC):</b>	> 210°F
<b>VOC Content (EPA Method 24):</b>	4.3 lbs./gal.
<b>Shelf life:</b>	Indefinite

### **INSTRUCTIONS:**

<b>Concentration:</b>	5% by volume
<b>Temperature:</b>	120°-140°F

Analyze new solution according to analysis on reverse side. Maintain the pH above 11.5 with additions of *ADF-25C* concentrate. An alternate method of replenishment is to have a tank of solution at working concentration, and add it to the sump to maintain volume lost by evaporation and drag out. The solution should be considered spent when resist re-deposits on boards.

Stripping speed and particle size will vary with type and thickness of photoresist, temperature, concentration, type of equipment and application. *Specific information on strip times, particle size and capacity is available from RBP Technical Service.*

Filtration is recommended to remove resist particles and extend bath life. In spray applications it may be necessary to add *ANTIFOAM BB* at 0.1% by volume to eliminate excess foam.

Tanks or spray equipment can be made of stainless steel, PVC, polypropylene. Heaters should be stainless steel or Teflon.

**CAUTIONS:** *ADF-25C* is alkaline; contact with skin and eyes should be avoided. Goggles and gloves should be worn when handling this product. In case of contact with eyes, flush with water for at least 15 minutes and obtain medical assistance. For skin contact, rinse immediately with water, and wash with soap and water. Use in a well-ventilated area.

**DISPOSAL:** *ADF-25C* contains amine compounds which are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal.

Dispose of treated material in accordance with all local, state and federal regulations.

**ANALYSIS:** **Equipment required:** 2 ml pipette  
50 ml burette  
250 ml flask or 250 ml beaker  
pH meter (optional)

**Reagents required:** 0.1N Hydrochloric acid standard solution  
Methyl Orange indicator solution

**Procedure:**

1. Pipette a 2 ml sample of the working solution into a 250 ml flask or beaker.
2. Add 50-100 ml distilled water and mix.
3. Add 10-15 drops of Methyl Orange indicator solution.
4. Titrate with 0.1N hydrochloric acid until the color changes from yellow to red. Record mls used.

**OR**

Titrate to a pH end point of 4.0, using a pH meter. Record mls used.

**Calculation:**  $\text{mls of HC1} \times \text{N of HC1} \times 4.1 = \text{Percent } \textit{ADF-25C}$

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.