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Product Data Sheet

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PRODUCT #: N8698

ADF- 50

Aqueous Photoresist Stripper

DESCRIPTION: Formulated for outstanding performance on today's newest dry film resists in spray or soak applications. ***ADF-50*** breaks dry films into particles suitable for filtration. It also protects the panels from staining caused by dyes in the photoresist. ***ADF-50*** demonstrates consistently high loading capabilities, and contains an enhanced copper brightening and antitarnish package. This enables it to produce a bright, uniform copper surface for automatic optical inspection and better etching characteristics.

BENEFITS:

- **Protects against stains**
- **Long life; high capacity**
- **Excellent cosmetics – bright copper**

SPECIFICATIONS:

Density:	1.025 gm/ml, 8.5 lbs./gal.
pH at 10% :	13.0
Flash Point (TCC):	>210°F
VOC Content (EPA Method 24):	2.4 lbs. /gal.
Shelf life:	Indefinite

INSTRUCTIONS:

Concentration:	10 to 12% by volume
Temperature:	120°-140°F

Analyze new solution according to analysis on reverse side. Maintain the pH above 11.5 with additions of ***ADF-50*** 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 equipment can be made of stainless steel, PVC, polypropylene. Heaters should be stainless steel or Teflon.

CAUTIONS: *ADF-50* 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-50* contains amine compounds that are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal.

ANALYSIS:

Equipment required: 2 ml pipette
50 ml burette
250 ml flask
pH meter (optional)

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

Procedure:

1. Pipette a 2 ml sample of the working solution into a 250 ml flask or beaker.
2. Add 50-100 ml of distilled water and mix.
3. Add 10-15 drops of Methyl Orange indicator and mix.
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: ml of HCl X N of HCl X 5.98 = Percent *ADF-50*

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.