



RBP Chemical Technology, Inc.

150 S. 118th ST. • P.O. Box 14069
Milwaukee, WI 53214-0069
www.rbpchemical.com
corporate: 800-558-0747
fax: 414-258-7908

Product Data Sheet

Date: 01/31/06

Supersedes: 02/03/05

PRODUCT #: N8599

ADF-30

Aqueous Resist Stripper

DESCRIPTION:

A photoresist stripper formulated to remove a wide variety of aqueous photoresists. **ADF-30** provides fast strip speeds and contains brightening and antitarnish agents for a uniform copper surface for automatic optical inspection and better etching characteristics. It produces filterable particles and contains no glycol ethers for a safer working environment. Effective in soak or spray applications.

BENEFITS:

- **Highly effective on a wide variety of photoresists**
- **Filterable particles for prolonged bath life**
- **High levels of antitarnish for bright copper**
- **Effective in spray or soak**

SPECIFICATIONS:

Density:	1.02 gm/ml, 8.5 lbs./gal.
pH at 10% :	12.6
Flash Point:	>210° F (SCC)
VOC Content (EPA Method 24):	3.2 lbs./gal.
Shelf life:	Indefinite

INSTRUCTIONS:

Concentration:	8-12% Spray or Soak
Temperature:	115°-135° F

ADF-30 is diluted with water to the desired operating concentration. For replenishment monitor the pH of the solution. At about pH 11, add 20% of the original make up volume of concentrate. For example, for a 100 gallon sump at 10% original concentration, add 2 gallons of **ADF-30** concentrate. The solution should be considered spent when replenishments exceed the original make up volume, or when resist re-deposits on boards. An alternate method of replenishment is to have tank of solution at working concentration, and add it to the sump to maintain volume lost by evaporation and drag out.

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-30* 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-30* 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 orange-red. Record mls used.

OR

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

Calculation: $\text{mls of HCl} \times \text{N of HCl} \times 5.0 = \text{Percent } \mathbf{ADF-30}$

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.