



Product Data Sheet

Date: 08/04/05
Supersedes: 06/06/05
PRODUCT #: N8147

ADF- 55

Dry Film and Liquid Resist Stripper

DESCRIPTION: Formulated to remove fully aqueous dry films and liquid resists in soak or spray applications. **ADF-55** breaks dry films into particles suitable for filtration and has a low VOC content for reduced air emissions. **ADF-55** contains special copper brightening and antitarnish agents that produce a bright, uniform copper surface for automatic optical inspection and better etching characteristics.

BENEFITS:

- Strips dry film and liquid resists
- Low VOC content for reduced air emissions
- Filterable particles for extended bath life

SPECIFICATIONS:

Density:	1.06 gm/ml, 8.8 lbs. /gal.
pH at 10% :	12.7
Flash Point:	204°F (TCC)
VOC Content (EPA Method 24):	3.9 lbs. /gal.
Shelf life:	Indefinite

INSTRUCTIONS:

Concentration:	10% 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-55** 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.

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 constricted of stainless steel, PVC or polypropylene. Heaters should be stainless steel or Teflon.

CAUTIONS: *ADF-55* 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. Refer to Material Safety Data Sheet for further information.

DISPOSAL: *ADF-55* contains amine compounds that are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal.

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

ANALYSIS:

Equipment required:	2 ml pipette 50 ml burette 250 ml Erlenmeyer flask Distilled water pH meter (optional)
----------------------------	--

Reagents required:	0.1N Hydrochloric acid Methyl Orange indicator
---------------------------	---

Procedure:

1. Pipette a 2 ml sample into a 250 ml Erlenmeyer flask.
2. Add 50 ml of distilled water and mix.
3. Add 10 drops of Methyl Orange indicator and mix.
4. Titrate with 0.1N HCl until the color changes from yellow to orange.

OR

Titrate with 0.1N HCl to a pH of 4.0 using a pH meter.

Calculation: $\text{ml of HCl} \times \text{N HCl} \times 5.8 = \text{Percent } \mathbf{ADF-55}$

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.