



Product Data Sheet

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PRODUCT #: N8670

ADF-10 BAT

Semi Aqueous Resist Stripper With Antitarnish

DESCRIPTION:

Specially formulated to remove semi-and fully aqueous dry film and screen ink resists. **ADF-10 BAT** will generally break dry films into very minute particles. It contains copper brightening agents for uniform, clean copper appearance. **ADF-10 BAT** contains additional copper brightening and antitarnish agents to preserve a bright copper surface for increased etching capability and to protect the copper surface if boards are held in a corrosive environment.

BENEFITS:

- Complete removal, even with overplating
- Maintains constant strip rate over wide loading range
- Low foam - antifoam agents are incorporated into the product
- Copper brightening additives provide and help preserve an even, clean surface

SPECIFICATIONS:

Density:	0.98 gm/ml, 8.2 lbs./gal.
pH at 10% :	12.1
Flash Point:	>210°F (SCC)
VOC Content (EPA Method 24):	5.5 lbs./gal.
Shelf life:	Indefinite

INSTRUCTIONS:

Concentration:	15-25% with water to remove semi- or fully aqueous dry films 10-25% with water to remove screen inks
Temperature:	110° - 130°F

Replenishment: **ADF-10 BAT** can be replenished by monitoring the pH of the solution. To maintain pH at 11.5-12.5 at 20% concentration, add 2 gallons of concentrate for a 50 gallon sump. After 5-6 replenishments or when resist re-deposits on boards, the solution should be considered spent. Analyze new solutions according to procedure on reverse. An alternate method of replenishment is to have a tank of solution at working concentration, and add it to the sump to replace 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.*

Mechanical agitation enhances the speed and effectiveness of stripping.

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

CAUTIONS:

ADF-10 BAT 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-10 BAT contains amine compounds which are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal.

Analyze spent solution for copper, tin and lead and treat in an appropriate chelate waste treatment system. The use of sodium dimethylthiocarbamate (Vinmet 1140) or sodium hydrosulfite will be necessary to break the chelation.

Adjust the pH to 2.0 with 10-20% sulfuric acid. Add, with mixing, the sulfite or thiothiocarbamate material. Add ferrous sulfate with mixing. Raise pH to 8.0 with 10-15% caustic soda mix. Add anionic flocculant. All precipitate to settle and decant. Dispose of precipitated metals 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
Bromthymol Blue indicator solution

Procedure:

1. Pipette a 2ml sample into a 250 ml Erlenmeyer flask.
2. Add 50 ml distilled water and mix.
3. Add 15 drops of Bromthymol Blue indicator solution and mix.
4. Titrate with 0.1N HCl until the color changes from blue to pale yellow. Record mls used.

OR

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

Calculation: mls of HCl X N of HCl X 11.5 = Percent **ADF-10 BAT**

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.