



Technical Bulletin

RS 3001 Resist Stripper

I. DESCRIPTION:

RS3001 RESIST STRIPPER is an aqueous solution formulated to strip aqueous dry film photo-resist and alkaline soluble screen printing inks. RS3001 contains copper anti-tarnish addition agents that produce a uniform clean copper surface.

BENEFITS:

1. Long lifetime. Excellent stripping capacity.
2. Excellent copper finish.
3. Rapid strip rate for high-speed horizontal applications.
4. Excellent stripping for fine line circuitry.

II. OPERATING PARAMETERS:

Make-Up	5 - 10% by volume diluted with water
Temperature	125 - 140 ⁰ F (52 - 60 ⁰ C)
Immersion Time	30 seconds - 2 minutes in batch mode. Two tanks recommended. Follow 50% or lower break point in horizontal mode.
Process	Horizontal or batch
Agitation	Mechanical in batch mode
Ventilation	Advised
Tanks	Polypropylene, Polyethylene, PVC
Racks and Baskets	PVC Coated
Heaters	Stainless Steel or quartz heater. Stainless steel cooling coil recommended.
Filtration	Recommended to extend solution life.

III. PHYSICAL PROPERTIES

	VALUES
Specific gravity	1.01 – 1.03
Appearance	Clear to Amber liquid
PH	> 12.0
Odor	Amine
Flash Point	> 200F

IV. CONTROL PROCEDURES:

RS3001 can be used in both batch and horizontal spray equipment. It should be mixed in concentrations 5-15% with water. Concentrations may be determined by chemical analysis. Tank and spray systems should be well ventilated and heated to 125-140°F. As RS3001 becomes saturated with resist, foaming may occur which can be controlled with a suitable de-foamer such as Bubble Buster BB200.

DETERMINATION OF CONCENTRATION:

The following method may be used to determine the alkalinity of the production bath by titration with hydrochloric acid. Bromothymol blue indicator is used for a decisive endpoint.

1. Pipette a 10-ml sample from the production bath into a 250-ml flask and dilute to about 100 mls with de-ionized water.
2. Add approximately 8 - 10 drops of Bromothymol blue indicator.
3. Titrate with 1.0N Hydrochloric acid to the endpoint. Note: the endpoint color change is from blue to yellow.
4. Calculation:
$$\text{RS3001 Concentration (\% vol)} = (\text{ml of 1.0N HCl}) \times 1.54$$

VI. SAFETY AND STORAGE:

RS3001 is corrosive and should be handled with care. Please refer to MSDS sheet for details. Avoid open flames. Do not store in direct sunlight, high temperature or below freezing

VII. WASTE TREATMENT:

RS3001 solutions are basic and should first be pH adjusted to 2-3 with sulfuric acid. Add 2 ounces of Ferrous sulfate and mix for 15 minutes. pH adjust to 8.5 with Caustic Soda. Allow the precipitate to settle and dispose the supernatant liquid in accordance with local, state and federal regulations.

VIII. MISCELLANEOUS:

Available in 5 and 55 gallon containers. Consult MSDS for additional information.

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