



# OS-902 Resist Stripper

## DESCRIPTION

OS-902 Resist Stripper is a liquid alkaline concentrate for removal of semi-aqueous dry film. It may also be used for removal of aqueous dry films and alkaline processible inks. OS-902 is especially effective at dissolving dry film from over-plated circuits. OS-902 is a fast acting, long life product designed primarily for use in spray stripping equipment. It may also be used in agitated soak tanks, ultrasonic assisted immersion stripping machines, and still soak tanks. OS-902 has a less offensive odor than other high-speed resist strippers. This permits its use in open dip tanks where the odor of the stripping bath must be kept as low as possible.

## OPERATING CONDITIONS

<b>Concentration</b>	Semi-Aqueous Dry Film 15 to 25% by volume. Aqueous Dry Film 5 to 25% by volume.
<b>Temperature</b>	120°F to 140°F
<b>Time</b>	30 seconds to 5 minutes

## MAKE-UP AND OPERATING PROCEDURES

### Spray Stripping

Fill sump of recirculating spray equipment about half full of water & add required amount of OS-902. 10% by volume OS-902 is typical for aqueous dry film. 20% by volume OS-902 is usually required for semi-aqueous dry film. Add remaining water. Heat solution to operating temperature. 130° F is typical. Adjust conveyor speed so that resist is essentially removed by the time the parts are 2/3 of the way through the spray zone. This leaves the remaining 1/3 of the spray zone to flush away stubborn spots and remove loosened resist clinging to the edges of the traces. Spray rinse with clean water. Dry parts to prevent water spotting.

### Dip Tank Stripping

Fill tank about half full of water. Add required volume of OS-902 Resist Stripper. Add remaining water and mix thoroughly. 10% by volume OS-902 is typical for aqueous dry film. 20% by volume OS-902 is usually required for semi-aqueous dry film. Heat solution to operating temperature. 130° F is usually satisfactory. Immerse parts in OS-902 solution until the resist is loosened from the surface. Gentle agitation of the parts or the solution will





speed removal of loosened resist. Remove parts from bath and rinse with clear water spray. Dip rinsing may be used, but is greatly inferior to spray rinsing. Dry parts to prevent water spotting.

#### CONTROL DATA

OS-902 contains foam control agents. As resist builds up in the bath additional defoamer may be required. Add a suitable defoamer, such as OS-419, as required to control foam.

#### ANALYSIS:

1. Place 25 ml sample of OS-902 bath into a 250 ml Erlenmeyer flask.
2. Add approximately 50 ml of deionized or distilled water.
3. Add 5 to 10 drops phenolphthalein indicator solution.
4. Titrate with 1 N hydrochloric or sulfuric acid until pink color is discharged.
5. Calculations:  $\text{ml 1 N acid} \times 1.07 = \% \text{ OS-902 in solution}$

**NOTE:** In soak tanks that are still, some of the organic components of OS-902 may separate and float to the surface of the bath. DO NOT skim this liquid off the solution. Simply stir the bath periodically to remix. Separation is minimized if temperature of the bath is kept at the lower end of the normal operating temperature range.

#### SAFETY AND STORAGE

Tanks and spray equipment made of PVC, PVDC, polypropylene, Teflon, steel, stainless steel, or titanium may be used in contact with OS-902 solutions. Heaters of stainless steel, titanium, quartz, or Teflon are acceptable.

OS-902 is strongly alkaline and can cause burns to skin and eyes. Protective clothing such as impervious gloves, apron, boots, and chemical safety goggles should be worn when handling this product. In case of accidental skin contact, flush immediately with a large amount of cold water. For eyes, flush with water for 15 minutes and seek medical attention immediately. OS-902 is harmful if swallowed or inhaled. Avoid breathing vapors or mist.

#### MISCELLANEOUS

- The information given in this technical data sheet is to the best of our knowledge accurate. It is intended to be helpful but no warranty is expressed or implied regarding the accuracy of such data. It is the users responsibility to determine the suitability of his own use of the product described herein; and since conditions of the use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein





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Product Data Sheet

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