OS-987 Resist Stripper

DESCRIPTION

OS987 RESIST STRIPPER is a highly concentrated product designed to remove aqueous dry film resists and alkaline processible screening inks. It is very economical because it is used at a lower concentration than most competitive resist strippers. OS987 may be used in dip or spray operations. It contains antioxidants to retard attack on copper and tin/lead and keep parts bright for ease of inspection after stripping.

OPERATING PARAMETERS

Concentration	4 to 10% by volume
Temperature	120°F to 140°F
Time	30 seconds to 5 minutes

PHYSICAL PROPERTIES AND OPERATING PROCEDURES

Spray Stripping

Fill sump of freshly cleaned spray equipment about 3/4 full of water. Add the required amount of OS987 RESIST STRIPPER. Add water to bring solution to operating level and turn on heater. For most applications, 6% by volume OS987 at 130°F is acceptable. Before turning on pump, add 1 to 2 ml OS-419 or other suitable defoamer per gallon of bath. Adjust conveyor speed so that resist removal is essentially complete 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 of resist. Spray rinse with fresh water. Dry parts at once to prevent water spotting and oxidation. Foaming may recur as resist builds up in the solution. Add 1 to 3 ml per gallon OS419 or other suitable defoamer as required to control foam.

Dip Tank Stripping

Fill tank about 3/4 full of water. Add the required amount of OS987 RESIST STRIPPER. Add remaining water and stir and heat to operating temperature. For most applications, 6% by volume OS987 at 130□F is acceptable. Immerse parts to be stripped in OS987 solution for 30 seconds to 5 minutes as required to remove resist. Gentle agitation of parts or solution speeds the stripping action. Remove parts from the bath allowing excess solution to drain back into the tank. Rinse with fresh water. Dip rinsing may be used, but pressure spray rinsing is preferable, especially when stripping pattern-plated parts. Dry all parts at once to prevent water spotting and oxidation.

CONTROL PROCEDURES

ANALYSIS

1. Pipet a 1.0 mL sample of the bath into a 200 mL flask and add 75-100 mLs of DI water.
2. Add 3 - 4 drops of Bromothymol blue indicator. Note: the endpoint color change is from blue to yellow.
3. Titrate with 0.1N hydrochloric acid to the yellow endpoint.
4. Calculation: OS-987 Concentration (% by volume) = mLs of 0.1N HCl x .95

OS987 solutions can be made up and operated using an OSTECH stripper controller unit. The bath is maintained based on pH. It may be more economical to use OS967A Additive for replenishment of an OS987 bath. Your OSTECH representative will help determine the parameters that best suit your application.

SAFETY AND STORAGE

Tanks and spray equipment of PVC, polypropylene, Teflon, titanium, steel, or stainless steel are suitable for use in contact with OS987 solutions. Heaters of steel, stainless steel, Teflon, titanium or quartz are acceptable.

OS987 RESIST STRIPPER and OS-967A ADDITIVE are 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 these products. In case of accidental contact, flush immediately with water. For eye contact, flush with water for 15 minutes and seek medical attention immediately. OS987 is harmful if swallowed or inhaled. Avoid breathing vapors or mists.