Seacole Specialty Chemical

Technical Data Sheet

POLY/Solv RS-730

A Liquid Concentrate Designed to Strip Fully Aqueous Dry Films

Product Description

POLY/Solv RS-730 Alkaline Resist Stripper is a highly concentrated alkaline solution for removing fully-aqueous resist from printed circuit boards.

Performance Features

- Fast stripping rate: 1 – 3 minutes.
- Economical to make a new bath at 10-20% with water.
- Economical to operate, based on the number of panels that can be stripped per gallon.
- Leaves a bright copper surface.
- Effective in soak or spray application.

Physical Specifications

Physical State	Liquid
Appearance	Clear/Odorless
Stability	Stable
Specific Gravity	0.996
pH	13.9

Equipment Requirements

Tanks: Constructed Of Polypropylene, Or Stainless Steel
Heaters: Stainless Steel.
Ventilation: Recommended

Product Make-Up

RS-730 must be diluted prior to use. The following procedure is recommended.

Procedure

1. Add water to 80% of the tank capacity.
2. Add Poly/SOLV RS-730. It is recommended an initial concentration of 20% by volume RS-730 (20 gallons of RS-730 for every 80 gallons of water) be employed.
3. Heat to 120-130°F and verify temperature with a thermometer.

NOTE: To assure optimum performance, it is recommended deionized or distilled water be used.

Operating Parameters

Before preparing the working bath, make sure the tank is clean and free of all prior resist, dirt, or previous solution deposits. It is recommended an initial concentration of 20% by volume RS-730 (20 gallons of RS-730 for every 80 gallons of water) be employed. The optimum concentration at which to employ RS-730 should be determined by testing. The optimum concentration will be dependent upon, in decreasing order of importance: resist thickness, type of resist, spray pressure, and temperature of the operating bath.

IMMERSION APPLICATIONS

Heat the bath to 120°F to 130°F and immerse the printed circuit boards for 1-3 minutes

STRIP TIME

Strip time will increase with solution use and resist build-up. The temperature of the stripping bath will affect the strip rate exponentially as the temperature is increased. You will also observe that a production bath produces larger resist skin particulate at higher temperatures. Depending upon the strip rate desired and the method for filtering resist skins from the bath, adjust the bath temperature accordingly.

RESIST PARTICULATE FILTRATION

The use of a filtration device will significantly increase the life of the resist-stripping bath. For more information contact Seacole or you're nearest distributor.

Control and Replenishment

The percent by volume (% v/v) of RS-730 in the working bath or diluted feed line can be calculated using the procedure below.

Equipment Required	Reagents Required
Buret, 50 ml	Methyl Red
Erlenmeyer Flask, 250 ml	Hydrochloric Acid Standardized 0.10 N
Pipet, 5 ml	

Procedure

1. Pipet 5 ml of sample into a 250 ml Erlenmeyer flask containing approximately 50 ml of deionized water.
2. Add approximately 10 drops of indicator and titrate with standardized HCl to endpoint. Record the mls of titrant required to reach the endpoint.

Calculation

$$\frac{A \times B \times 15}{C} = \%\ v/v\ RS\text{-}730\ in\ sample$$

Where	A	=	volume of HCl required in ml
	B	=	N of the HCl
	C	=	sample volume in ml

Additions of RS-730 concentrate can be made directly on a percent by volume basis to raise the concentration to the desired value.

Safety and Handling
Read and understand this products MSDS before handling.

Waste Treatment
Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations. Contact Seacole for specific details and/or further waste treatment recommendations.

Ordering Information
RS-730 is available in 55-gallon drums.

13505 Industrial Park Blvd. Plymouth, MN 55441