

## ANTI/Foam CR-98S

### An All Purpose, Non-Silicon ANTI/FOAM

#### Product Description

ANTI/Foam CR-98S is an organic defoamer used to eliminate foam that develops in spray chambers for the developing and stripping of photoresist. The gradual dissolving of resist into developing and stripping solutions causes the generation of foam from the agitation of the spray pressure, that can cause the sumps to foam over or even shut down the operation of the machine by a control interlock.

#### Performance Features

- CR-98S leaves a clean copper surface.
- CR-98S is chemically stable in alkaline solutions.
- CR-98S is extremely free-rinsing virtually eliminating residue on process equipment.
- CR-98S does not attack photo resist.
- CR-98S can be employed in both developing and resist stripping applications.

#### Physical Specifications

Physical State	Liquid
Appearance	Clear to Light Yellow
Solubility	Slight Soluble
Specific Gravity	1.0-1.05
Flash Point	> 150°F

#### Equipment Requirements

Tanks: PVC, Polyethylene, Polypropylene, Quartz, Teflon, Koroseal, (Or Tanks Lined With These Material), Steel, Monel, Or Titanium.

Heaters: Quartz, Titanium, Stainless Steel, Or Teflon-Encased Steel.

Racks: Stainless Steel And/Or Copper Racks Coated With Plastisol Or PVC.

Delivery System: Pump Heads Should Be Constructed Of Stainless Steel, Steel, Brass, Teflon, Polycarbonate, Or Polyethylene. Delivery Tubing Should Be Latex Or Tygon.

## Technical Data Sheet

### Product Make-Up

For spray developing, horizontal or vertical, CR-98S is effective at concentrations of 0.5 - 1.0 pints per 100 gallons. For spray stripping, horizontal or vertical, CR-98S is effective at concentrations of 1.0 - 2.0 pints per 100 gallons. Additions of CR-98S should only be made when the foam head of the system is unacceptable. Replenish as needed, 0.5 pints at a time until the stripping bath is dumped.

### Operating Parameters

The performance of ANTI/Foam CR-98S is unaffected by typical operating temperatures (60-180°F).

### Control and Replenishment

CR-98S should be employed at the lowest concentration which effectively eliminates foam from the system. This volume may be different with different types of dry films or LPISMs. Additions should only be made as required to control foaming. If automated additions are desired, the following general guidelines should be employed:

#### **DEVELOPING**

Add CR-98S at a rate of 4-5 ml/minute during processing. In pH controlled feed and bleed applications, add CR-98S at a rate of 15-20 ml/minute simultaneously with additions of developing solutions.

#### **RESIST STRIPPING**

Add CR-98S at a rate of 6-8 ml/minute during processing. In feed and bleed control systems add CR-98S at a rate of 25-30 ml/minute simultaneously with additions of resist stripper.

### Safety and Handling

Read and understand this product's 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

ANTI/Foam CR-98S is available in 1 gallon jugs, 5 gallon pails and 55 gallon drums.

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