

Hallstrip RS 617

Hallstrip RS 617 is a concentrated alkaline liquid system designed to give the user maximum processing flexibility and bath life for photopolymer resist stripping. Hallstrip RS 617 is designed to be used on fully aqueous dry films. Hallstrip RS 617 produces excellent mil/sq. ft. yields and fast conveyor speeds.

Features & Benefits

Dry film breaks into flakes	Less pump/nozzle clogging, less maintenance; lower cost
No epoxy attack	Eliminates rejects; higher productivity

Operating Conditions

(Spray)

Concentration	10% vol
Temperature	100°F – 140°F (38°C – 60°C)
Defoamer	Aquapure DF-P recommended
Equipment	Polypropylene, Polyethylene, 316 stainless, PVC
Filtration	Recommended for long bath life, easy waste treatment, and low foaming
Heaters	Quartz, stainless

(Immersion)

Concentration	15% vol
Temperature	120°F – 160°F (49°C – 71°C)
Defoamer	N/A
Equipment	Polypropylene, Polyethylene, 316 stainless, PVC
Filtration	Recommended for long bath life, easy waste treatment, and low foaming

Heaters	Quartz, stainless
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Titration Method

1. Pipet a 10 mL sample of Hallstrip RS 617 working bath into a 250 mL Erlenmeyer flask.
2. Add about 100 mL of water and a few drops of Bromothymol Blue indicator. (if the sample is the color of the resist from usage, it may be necessary to filter the undissolved particles prior to titration).
3. Titrate with 0.5 N Hydrochloric Acid from blue to a yellow endpoint.
4. Record the mL of 0.5 N Hydrochloric Acid.

Calculation

$$\text{Hallstrip RS 617 (\% VOL)} = 0.585 \times \text{mL OF 0.5 N Ac}$$

Procedure

1. Adjust the pH of the spent solution to 9.0 with sulfuric or Hydrochloric Acid.
2. Add 5% v/v Aquapure FA while mixing.
3. The solution can be clarified or sent directly to a press.
4. Additional treatment for any metals in solution can be accomplished by using Aquapure P 601 or Aquapure P 1130.

Aquapure FA

Using Aquapure FA from Hubbard-Hall, Inc. Is the most efficient method of waste treating Hallstrip RS 617. This process completely removes the photopolymer resist from the stripper in a form that allows it to be pressed into an easily handled, non-sticky cake. Aquapure FA is a liquid product which is free from hazardous dusts.

Waste Disposal

Neutralize solutions of Hallstrip RS 617 to a pH between 6.0 to 8.0 with a mineral acid. Use caution when adding the acid since neutralization generates heat. Discharge the neutralized solution to disposal area. In order to be completely informed on the latest disposal regulations for your area, please contact the local authorities.

Caution

Hallstrip RS 617 is an alkaline product and should be handled accordingly. Avoid skin, eye and oral contact. Wear protective clothing, gloves and goggles. Flush exposed areas immediately with clean cold water. In case of injury contact a doctor immediately. Caution should be taken to provide adequate ventilation.



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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶.