

RINSE/Aid AH-1

A Rinse Aid for Improved Post Hot Air Level Cleaning

Product Description

RINSE/Aid AH-1 (AH-1) is a highly concentrated, mild alkaline cleaner designed to aid in the removal of post hot air level residues, including organic and inorganic residue which may contribute to ionic contamination. The AH-1 formulation is effective solublizing both thermally adhered ethoxylated polymers, as well as metal oxides and metal halides that may form on the surface of the PCB during hot air level processing. AH-1 can be operated at concentrations of 5-20% in water, at temperatures of 70-140°F, and is suitable for either spray or immersion applications.

Performance Features

- RINSE/Aid AH-1 is effective solublizing both organic and inorganic residue that may form on the surface of the PCB during hot air level processing.
- RINSE/Aid AH-1 is an economical concentrate, used at concentrations as low as 5% in water.
- RINSE/Aid AH-1 is compatible with most types of equipment and will not attack or soften elastomers.
- RINSE/Aid AH-1 reduces ionic contamination after hot air leveling.

Physical Specifications

Physical State	Liquid
Appearance	Clear Solution
Odor	Mild Amine
Freeze/Thaw Stability	Do Not Freeze
Specific Gravity	1.1
pH	>9

Equipment Requirements

Tanks: Constructed Of Polypropylene, Polyethylene, PVC, Or CPVC.

Racks: Constructed of Titanium, Plastisol Coated Steel, Or Stainless Steel.

Heaters: Constructed Of Stainless Steel, Quartz Or Teflon.

Technical Data Sheet

Product Make-Up

RINSE/Aid AH-1 MUST BE DILUTED PRIOR TO USE. The operating strength of RINSE/Aid AH-1 can be adjusted within the range of 5 - 20% based upon individual requirements. In a typical spray application, it is recommended AH-1 be diluted initially to 5% by volume in deionized water as follows:

1. Make sure the tank is clean and free of residues, paying special attention to heater sheathings and manifold plumbing.
2. Fill the sump with deionized water to approximately 50% of the final desired volume.
3. Add the desired volume of RINSE/Aid AH-1 to achieve desired concentration.
4. Dilute to volume with deionized water, mix, and heat to temperature.

Operating Parameters

The performance of RINSE/Aid AH-1 increases with elevated temperature. Optimum operating temperature is 120°F. Below are the recommended operating guidelines.

Temperature	70-140°F
Immersion Time	30 - 120 Seconds
Agitation	Mechanical Or Spray
Ventilation	Recommended
Filtration	Not Required

Control and Replenishment

Under normal operating conditions, one gallon of RINSE/Aid AH-1 concentrate will clean approximately 1,000 surface square feet. Due to the accumulation of ionic residue in the working bath, maintenance additions are not recommended. The bath should be dumped and made-up fresh when ionic contamination testing exceeds requirements.

Determination Of Rinse/Aid AH-1 Bath Concentration

Equipment Required	Reagents Required
Pipet, 10 ml	Hydrochloric Acid Standardized .10N
Erlenmeyer Flask, 250 ml	Phenolphthalein Indicator

Procedure

1. Pipet 10 ml of working bath into a 250 ml Erlenmeyer flask containing 75 ml deionized water.
2. Add 5-10 drops Phenolphthalein indicator and titrate with 0.10N HCl to a clear endpoint.

Calculation

$$\% \text{ AH-1} = \text{ml HCl} \times \text{N of HCl} \times 14.7$$

Technical Data Sheet

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

RINSE/Aid AH-1 is available in 5-gallon pails and 55-gallon drums.

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