

ENVIRO/Bright SC-5 Solder Conditioner

Product Description

ENVIRO/Bright SC-5 is formulated to remove oxides and alkaline or acidic etch residues from solder plated printed circuit boards and to activate copper surfaces. ENVIRO/Bright SC-5 not only removes oxides, but cleans and brightens solder. With mild odor, the economical, concentrated formula can be used in either spray or dip applications. ENVIRO/Bright SC-5 is free rinsing in water and may be operated at ambient temperature.

Performance Features

- ENVIRO/Bright SC-5 is specifically formulated to remove fingerprints, light oils, alkaline or acidic etch residues from solder plated printed circuit boards.
- ENVIRO/Bright SC-5 offers a wide process latitude and is ideally suited for feed and bleed operation.
- ENVIRO/Bright SC-5 is free rinsing and may operate at ambient temperatures.

Physical Specifications

Physical State	Liquid
Appearance	Clear to Light Yellow
Odor	Mild Sulfur
pH	< 1
Specific Gravity	1.1

Equipment Requirements

Tanks: Constructed Of Polypropylene, Polyethylene.

Racks: Constructed of Titanium.

Heaters: Constructed Of Quartz Or Teflon.

Ventilation: Recommended

Filtration: Continuous Filtration Employing 10-Micron Polypropylene Filter Cartridges Is Recommended.

Product Make-Up

ENVIRO/Bright SC-5 MUST BE DILUTED PRIOR TO USE. When using ENVIRO/Bright SC-5 for copper activation or as a pre cleaner in a tin/lead IR process, add 1 part ENVIRO/Bright SC-5 to 1 part water. When using ENVIRO/Bright SC-5 as an etch neutralizer, add 1 part ENVIRO/Bright SC-5 to 2 parts water.

Technical Data Sheet

Operating Parameters

The performance of ENVIRO/Bright SC-5 increases with elevated temperature. Below are the recommended operating guidelines for the cleaner.

Temperature	<130°F
Immersion Time	30 - 180 Seconds
Agitation	Mechanical Or Spray
Ventilation	Recommended
Filtration	Optional

Control and Replenishment

The concentration of ENVIRO/Bright SC-5, and appropriate additions of ENVIRO/Bright SC-5 concentrate can be determined by following the procedure below. The volume of the sump should be maintained with additions of deionized water.

Determination Of % By Volume ENVIRO/Bright SC-5

Equipment Required	Reagents Required
pH Meter	Buffers pH 4 and 7
Magnetic Stirrer	Phenolphthalein
Pipet, 10 ml	Sodium Hydroxide 1.0N
Beaker, 250 ml	

Procedure

1. Pipet a 10 ml sample of the bath into a 250 ml beaker containing 100 ml of deionized water and a stir bar.
2. Titrate with 1.0N Sodium Hydroxide to a pH of 8.0 or add 3 drops of phenolphthalein indicator and titrate to a pink endpoint.

Calculations

$$\frac{A \times B \times 35.0}{C} = \% \text{ by volume ENVIRO/Bright SC-5}$$

Where A = ml of titrant required
 B = N of titrant
 C = sample volume (in ml)

Technical Data Sheet

Additions

$$\frac{(A - B) \times C}{100} = \text{Volume of ENVIRO/Bright SC-5 to add}$$

Where A = desired % by volume
 B = actual % by volume
 C = volume of bath

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

ENVIRO/Bright SC-5 is available in 5-gallon pails and 55-gallon drums

13505 Industrial Park Blvd. Plymouth, MN 55441