

ALPHA® RF-800F

Rosin No Clean Flux

DESCRIPTION

ALPHA RF-800F is a medium solids, no-clean flux, formulated with a small percentage of rosin and non-halide activators. The unique rosin-activation system promotes excellent solder wetting to protect copper nad solder coated surfaces. Post soldering residue of **ALPHA RF-800F** is minimal, slightly glossy, and can be pin-tested without removal.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

ALPHA RF-800F is formulated to be applied with foam, wave, spray and mist fluxers. Flux deposition density and uniformity are critical to successful use of no-clean flux. Applying ALPHA RF-800F to a dry flux coating density of 500 to 1500 micrograms per square inch is recommended. Preheating the circuit assembly will partiallly dry the flux, enhance oxide removal and promote optimum wicking, as well as superior solder joint formation. Degree of preheat is dependent on many variables, such as, conveyor speed, type of components and substrates. Entering the solder wave with a top-side temperature of 190 to 240 °F (88 to 115 °C) and a bottom side temperature of 250 to 325 °F (121 to 163 °C) is typical.

Control

The foam applicators should be supplied with compressed air, free of oil and water. Maintain flux fluid level sufficiently above the aerator stone to produce adequate foam height. Adjust air pressure to produce optimum height with foam consisting of uniform bubbles.

In time, debris and contaminants will accumulate in recirculating type flux applicators. For consistent soldering performance, dispose of spent flux periodically. After emptying used flux, the reservoir and applicator should be thoroughly cleaned with flux thinner. Refill reservior with fresh flux and allow a few minutes to stabilize before resuming soldering operation.

Although ALPHA RF-800F is designed to be left on the board, if desired, post soldeirng residues can be removed with ALPHA 2110 saponifier.





TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Clear, Pale Yellow Liquid	Flash Point (T.C.C.)	17 °C
Solids Content, %wt/wt	4%	Recommended Thinner	ALPHA 800 ADDITIVE
Specific Gravity @ 25 °C (77 °F)	0.796±0.005	Shelf Life (from Date of Mfg.)	540 days
Acid Number (mg KOH/g)	18	IPC J-STD-004 Designation	ROL0
Packaging Size	1, 5 & 55 Gallons		

CORROSION & ELECTRICAL TESTING

Corrosion Testing: IPC-SF-818

Test Method	Results
Silver Chromate Paper Test	PASS
Copper Mirror Test	PASS
Copper Corrosion Test	PASS

Surface Insulation Resistance

Test Condition	Results
50 °C, 90%R.H., 7 days, 12.5 mil	10 ⁹ Typical



RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area or <u>link here</u>.



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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