

# ALPHA<sup>®</sup> A90

## No-Clean Rosin Flux

### DESCRIPTION

**ALPHA A90** is a foam flux specifically designed for automatic soldering of printed circuit board assemblies.

**ALPHA A90** is a no-clean flux, and the residues are designed to be left on the board / cleaned. If desired, flux residues can be removed with chlorinated solvents such as ALPHA 564FE or non-CFC cleaners such as ALPHA 2110 Saponifier.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES & BENEFITS

- Mildly activated rosin flux
- Good wetting and capillary action
- Flux residues are fast drying, non-tacky and are evenly distributed on PCB surface
- Provides superb foam characteristics; foam bubbles are even, fine and fast subsiding
- Very low halide content rendering the flux residues safe to be left on PCB without cleaning
- Meets IPC Corrosion Resistance Test and Surface Insulation Resistance Test for L Type flux (low activity / low corrosion)

### TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Clear amber liquid	Flash Point (T.C.C.)	17 °C
Solids Content, %wt/wt	12.0%	Pounds per Gallon @ 25 °C	6.97
Specific Gravity @ 25 °C (77 °F)	0.836 ± 0.005	Shelf Life (from Date of Mfg.)	1080 days
pH (5% aqueous solution)	3.3	IPC J-STD-004 Designation	INH1
Chloride Content, %wt/wt	< 0.05%	*Surface Insulation Resistance Test, Ω	10 <sup>11</sup> minimum

Item	Typical Values	Item	Typical Values
Copper Mirror Test (MIL-14256D)	PASS	*Test boards with 25mil lines and 50mil spacing were aged at 50 °C and 90%RH with 50V DC applied. Measurements of SIR were made using a 100V DC measuring voltage applied in a polarity opposite that of the aging voltage.	

**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 [link here](#).



**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](http://MacdermidAlpha.com/assembly-solutions/knowledge-base).**

**CONTACT INFORMATION**

**To confirm this document is the most recent version, please contact [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)**

[www.macdermidalpha.com](http://www.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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