

ALPHA[®] 9230

Low Solids, Alcohol Based, No-Clean Liquid Soldering Flux

DESCRIPTION

ALPHA 9230 is a low-solids, alcohol-based, no-clean flux for use in a variety of automated and manual soldering applications. While effective on many types of assemblies, this flux has been found to exhibit excellent solder performance with bright solder joint. **ALPHA 9230** residue is almost invisible, non-corrosive, non-conductive, and can be left on the circuit board without interfering with pin testing.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- No irritating smell during soldering
- Excellent soldering performance, bright solder joint
- Reduce the surface tension between the solder mask layer and the solder, resulting in less solder balls
- ALPHA 9230 leaves uniform, tack-free, and pin testable residues

APPLICATION GUIDELINES

ALPHA 9230 flux is designed for spray applications. Flux deposition amount and uniformity are the key to the successful application of low solid content no-clean flux. To preheat the circuit board can evaporate the solvent in the flux, promote the removal of oxides, and help the soldering to achieve good solder joint formation. In general, before the circuit board enters the solder pot, the top side of board temperature should reach 85 to 110 °C, and the bottom side of board temperature should reach 120 to 145 °C. The optimal value depends on the heat absorption of the component and substrate.

Residue Removal: ALPHA 9230 is a no-clean flux and the residues are designed to be left on the board.

TECHNICAL DATA

Category	Typical Values
Appearance	Clear, colorless liquid
Solids Content, wt/wt	1.5%
Specific Gravity @ 25 °C (77 °F)	0.803 +/- 0.005
Acid Number (mg KOH/g)	10 +/- 1
Flash Point (T.C.C.)	16 °C
Recommended Thinner	ALPHA 425
Shelf Life (from Date of Mfg.)	360 days

CORROSION & ELECTRICAL TESTING
Corrosion Test

Test		Requirement for ROL0	Results
IPC	Silver Chromate Paper IPC-TM-650 Test Method 2.3.33	No detection of halide	PASS
	Copper Mirror Test IPC-TM-650 Test Method 2.3.32	No complete removal of copper	PASS

IPC J-STD-004 Surface Insulation Resistance

Test	Conditions	Requirements	Results
"Comb-Down" Uncleaned	85 °C/85% RH, 7 days	1.0 x 10 ⁸ minimum	PASS
"Comb-Up" Uncleaned	85 °C/85% RH, 7 days	1.0 x 10 ⁸ minimum	PASS
Control Boards	85 °C/85% RH, 7 days	2.0 x 10 ⁸ minimum	PASS
IPC Test Condition (per J-STD-004): -48V, IPC B-24 board (0.4mm lines, 0.5mm spacing).			

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.**

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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