

ALPHA® LR725 Paste Flux

No-Clean Paste Flux

DESCRIPTION

ALPHA LR725 is a no-clean rosin-based flux designed for surface mount, flip chip, ball grid array (BGA) processes requiring reflow application together with the solder sphere/bump.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

ALPHA LR725 is best applied by stencil printing, screen printing or by dispensing.

ALPHA LR725 is designed with an activator system that enables the flux to penetrate even moderately tarnished surfaces among the following metals.

Copper Gold Solder (Creams) Tin (Hot Dip)
Cadmium (Plate) Silver Solder (Hot Dip) Tin (Plate)

PRODUCT INFORMATION

Packaging Sizes: 10cc syringe, 100-gram jar

RoHS Compliance: Complies with RoHS Directive EU/2015/863





TECHNICAL DATA

Category	Results
Chemical Properties	
	IPC-SF-818 : Type L3NC
Flux Classification	QQ-S-571E: RMA, mildly activated rosin
Halide Content	Halide free (by titration), Passes Ag Chromate Test
Corrosivity	Passes Cu Mirror Test
Water Extract Resistivity	>100,000 ohm-cm; RMA class
Electrical Properties	
SIR (ohms), IPC	Pass; > 5.0 x 10 ⁹ after 7 days, uncleaned
SIR (ohms), Bellcore	Pass; > 9.0 x 10 ¹¹ after 4 days, uncleaned
Electromigration, Bellcore	Pass; > 5.0 x 10 ⁹ after 500 hours, uncleaned
Physical Properties	
Appearance	Smooth Paste
Residues	Approximately 5.5% by weight; light amber, tack free
Acid Number	71 to 81 mg KOH/g (typical)

PROCESSING GUIDELINES

Cleaning

ALPHA LR725 is a no-clean flux and the residues are designed to remain on the board after reflow. If desired, ALPHA LR725 residues may be removed using semi-aqueous cleaners or by saponification process with ALPHA 2110 in water.

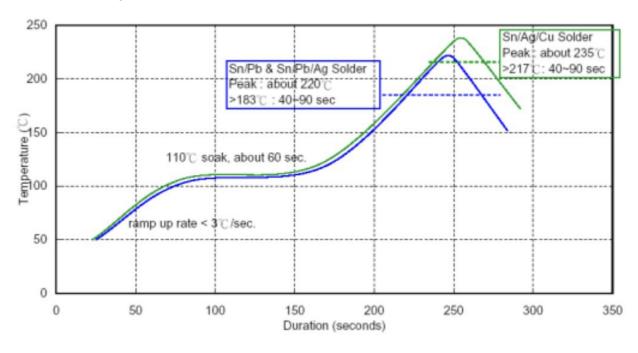


REFLOW PROFILES

Note: These are only recommendations. Equipment and assembly factors may require adjustments to be made to the reflow profile

ALPHA LR725 can be successfully reflow in infrared, convection or vapor phase systems.

ALPHA LR725 Typical Soak Reflow Profile Recommendation







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.**

STORAGE

ALPHA LR725 should be stored in sealed containers at room temperature (19 to 25 °C / 66 to 77 °F) and need not be refrigerated. Shelf life of unopened containers is nominally 6 months. If the material has been chilled, the container should be allowed to reach room temperature before opening in order to prevent moisture condensation from ambient air onto the flux.

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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