

# ALPHA<sup>®</sup> OL107E PASTE FLUX

## No-Clean Paste Flux

### DESCRIPTION

**ALPHA OL107E** is a no-clean flux designed for stencil printing or rework applications in a surface mount process.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES AND BENEFITS

- Excellent fine-feature cosmetics demonstrated by bright, shiny joints
- Clear, colorless flux residues engineered not to spread onto either the board or components providing satisfactory pin testing
- Excellent solder spread
- Exceeds both JIS and IPC requirements for random solder balling

### APPLICATION GUIDELINES

ALPHA OL-107E is designed to provide high post-reflow yield while maintaining excellent solder joint cosmetics.

### PRODUCT INFORMATION

Packaging Sizes: 30cc syringe, 100-gram jar

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

**TECHNICAL DATA**

Category	Results	Procedures/Remarks
<b>Chemical Properties</b>		
Activity Level	ROLO	IPC J-STD-004
Halide Content	Halide free (by titration), Passes Ag Chromate Test	MIL-F-14256
Fluoride Spot Test	Pass	MIL-F-14256
Copper Mirror & Copper Corrosion Test	Pass	JIS Z 3197
<b>Electrical Properties</b>		
SIR (7 days, 85 °C/85%RH)	Pass; $4.2 \times 10^9$ ohms	IPC J-STD-004 (Pass > $1 \times 10^8$ ohm)
SIR (96 hrs. @ 35 °C/85%RH)	Pass; $1.7 \times 10^{13}$ ohms	Bellcore GR-78-CORE (Pass $\geq 1 \times 10^{11}$ ohm)
<b>Physical Properties</b>		
Appearance	Pale Yellow Paste	
Viscosity (10 rpm @ 25 °C by Malcom Viscometer)	170 to 270 Poise (typical)	
Acid Number	127 to 141 mg KOH/g (typical)	
% Moisture Content	0.10 to 0.30 (typical)	

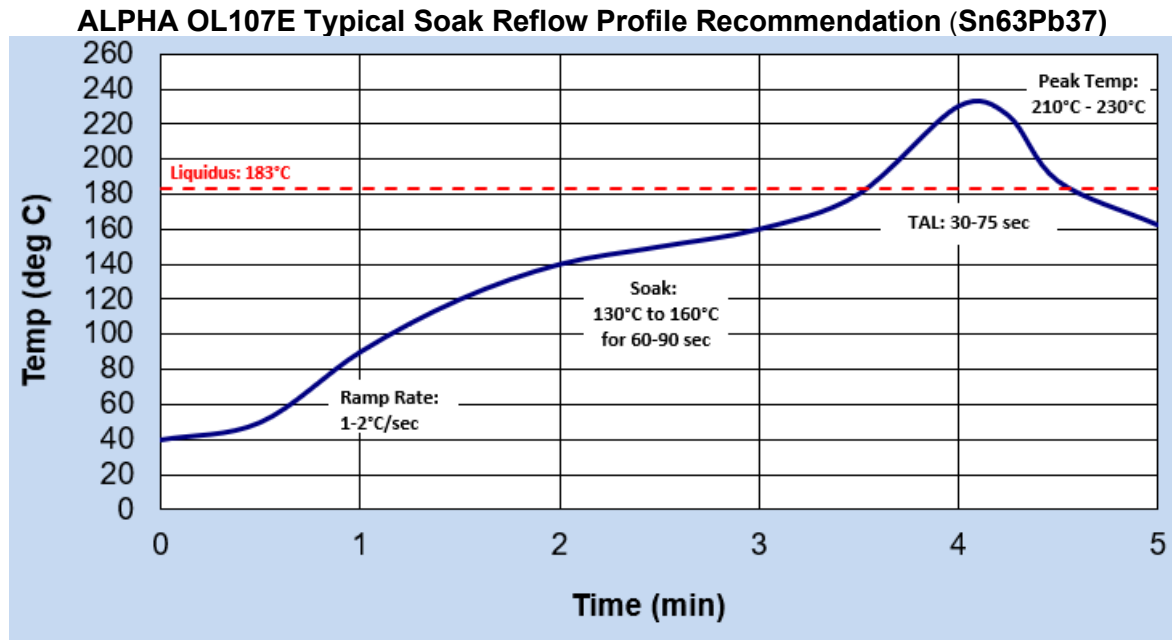
**PROCESSING GUIDELINES**
**Cleaning**

ALPHA OL107E is a no-clean flux and the residues are designed to remain on the board after reflow. If desired, ALPHA OL107E residues may be removed using semi-aqueous cleaners.

**REFLOW PROFILES**

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

**Atmosphere:** Capable of reflow in Air and N<sub>2</sub> environments.



**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).**

**STORAGE**

ALPHA OL107E should be stored in sealed containers at room temperature (19 to 25 °C / 66 to 77 °F) and need not be refrigerated. 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](mailto:Assembly@MacDermidAlpha.com)**

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

<p><b>North America</b> 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460</p>	<p><b>Europe</b> Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400</p>	<p><b>Asia</b> 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100</p>
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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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