

ALPHA[®] OM-338-PT Paste Flux

Pin-Testable Paste Flux

DESCRIPTION

ALPHA OM-338-PT is a lead-free, no-clean paste flux designed for a broad range of applications. **ALPHA OM-338-PT** is formulated to offer increased in-circuit pin test yields versus ALPHA OM-338 without compromising electrical reliability.

ALPHA OM-338-PT is formulated to deliver excellent visual joint cosmetics. Additionally, the ROL0 IPC classification of **ALPHA OM-338-PT** ensures maximum long-term product reliability.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Wide reflow profile window with good solderability on various board / component finishes
- Excellent solder and flux cosmetics after reflow soldering
- Excellent pin-test yield for single and double reflow
- Excellent reliability properties, halide-free material
- Compatible with either nitrogen or air reflow

PRODUCT INFORMATION

Packaging Sizes: 30cc syringe, 100 gram jar

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

APPLICATION GUIDELINES

ALPHA OM-338-PT Paste Flux is especially suitable for printing on assemblies that will receive in-circuit test probing. It is suitable for use across a wide variety of lead-free process settings.

ALPHA OM-338-PT Paste Flux may be applied by screen printing or pin transfer (substrate) or doctor blade / dip coating (package). It can also be dispensed.

TECHNICAL DATA

Category	Results	Procedures/Remarks
Chemical Properties		
Activity Level	ROLO	IPC J-STD-004A
Halide Content	Halide free (by titration)	IPC J-STD-004A
Ag Chromate Test	Pass	IPC J-STD-004A
Copper Mirror Test	Pass	IPC J-STD-004A
Copper Corrosion Test	Pass , No Evidence of Corrosion	IPC J-STD-004A
Electrical Properties		
SIR (IPC 7 days @ 85 °C/85% RH)	Pass , 4.1 x 10 ⁹ ohms	IPC J-STD-004A (Pass ≥ 1 x 10 ⁸ ohms)
SIR (Bellcore 96 hours @ 35 °C /85%RH)	Pass , 8.4 x 10 ¹¹ ohms	Bellcore GR78-CORE (Pass ≥ 1 x 10 ¹¹ ohms)
Electromigration (Bellcore 96 hours @ 65 °C/85%RH 10V 500 hours)	Pass , Initial = 3.8 x 10 ⁹ ohms Final = 1.9 x 10 ⁹ ohms	Bellcore GR78-CORE (Pass=final > initial/10)
Physical Properties		
Color	Smooth, Off-White to Pale Yellow Paste	
Viscosity (10 rpm at 25 °C by Malcom Viscometer)	180 to 290 Poise	
Acid Number (mgKOH/g)	125.00 to 155.00	
Moisture Content	Typically, 0.7% max	
Fineness of Grind (µm)	<10 µm (typical)	

REFLOW PROFILES

Figure 1: Typical Ramp Reflow Profile for SAC Alloys

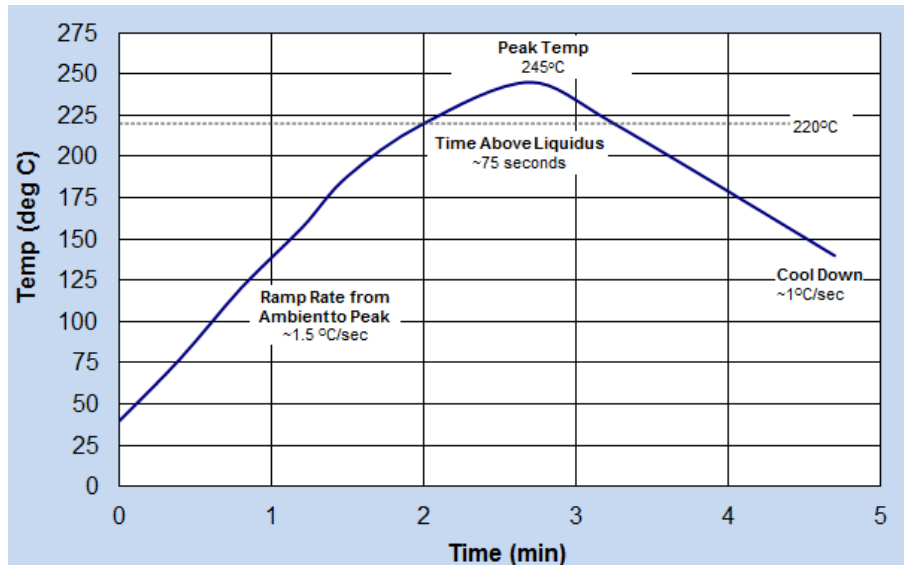
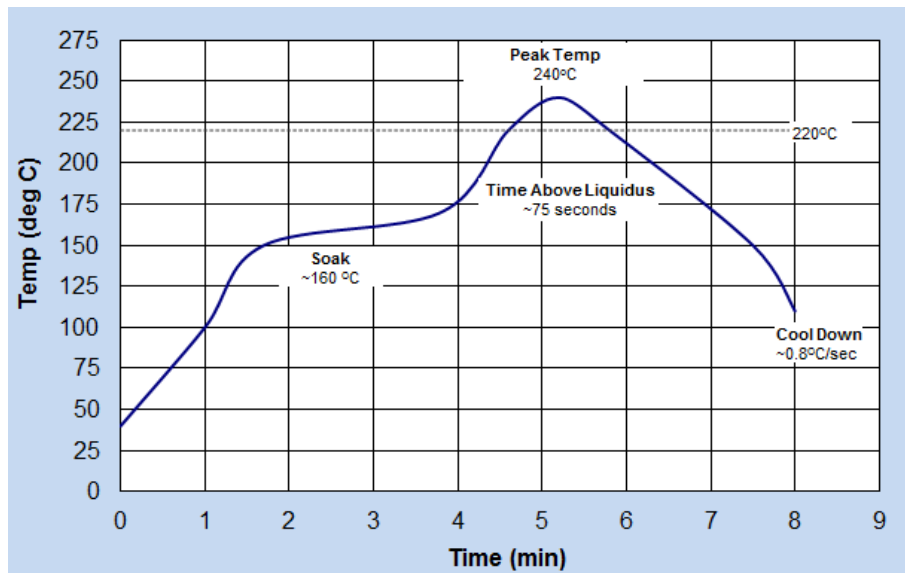


Figure 2: Typical Soak Reflow Profile for SAC Alloys



Note: These are profiles that were tested in the lab with acceptable reflow and coalescence performance, optimization to each board application should still be carried out by users to ensure best results.

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.**

STORAGE

The flux should be stored in sealed containers and need not be refrigerated. Shelf life of unopened containers at room temperature (19 to 25 °C / 66 to 77 °F) is 6 months from the manufacturing date. 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

www.macdermidalpha.com

<p>North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460</p>	<p>Europe Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400</p>	<p>Asia 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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