

ALPHA[®] OM-338-T Paste Flux

No Clean Paste Flux

DESCRIPTION

ALPHA OM-338-T is a no-clean paste flux designed for a broad range of applications, including rework of components. **ALPHA OM-338-T** is formulated to deliver excellent visual joint cosmetics and clear, colorless flux residues.

Additionally, the ROL0 IPC classification of **ALPHA OM-338-T** 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
- Reduction in random solder balling levels, minimizing rework and increasing first time yield
- Excellent reliability properties, halide-free material
- Compatible with either nitrogen or air reflow

PRODUCT INFORMATION

<u>Residues:</u>	Approximately 5% by (w/w)
<u>Packaging Sizes:</u>	10cc and 30cc dispense syringes.
<u>Lead Free:</u>	Complies with RoHS Directive EU/2015/863

APPLICATION GUIDELINES

ALPHA OM-338-T Paste Flux may be applied by screen printing or pin transfer (substrate) or doctor blade / dip coating (package). It can also be dispensed. It is suitable for use across a wide variety of lead free process settings.

TECHNICAL DATA

Category	Results	Procedure/Remarks
Chemical Properties		
Activity Level	ROLO	IPC J-STD-004A IPC J-STD-004B
Halide Content	Halide free (by titration)	IPC J-STD-004A IPC J-STD-004B
Halogen Test	Pass , Zero Halogen - No halogen intentionally added	EN14582, by oxygen bomb combustion, Non-detectable (ND) at < 50 ppm
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	IPC J-STD-004A
SIR (IPC 7 days @ 40 °C/90% RH)	Pass	IPC J-STD-004B
SIR (Bellcore 96 hrs @ 35 °C/85%RH)	Pass	Bellcore GR78-CORE
Electromigration (Bellcore 96 hrs @ 65 °C/85%RH 10V 500 hrs)	Pass	Bellcore GR78-CORE
Physical Properties		
Color	Smooth, Off-White to Pale Yellow Paste	
Viscosity (5rpm at 25 °C by Malcom Viscometer)	230 to 400 Poise	
Acid Number (mgKOH/g)	140 to 170	
Moisture Content	<0.5%	
Fineness of Grind (µm)	<10 µm	

REFLOW PROFILES

Figure 1: Typical Soak Reflow Profile for SAC Alloys

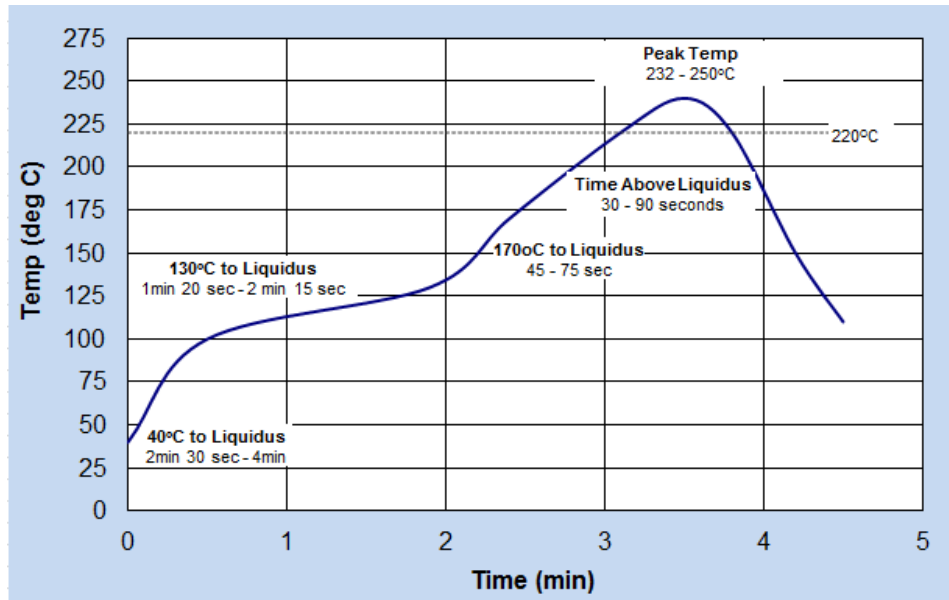
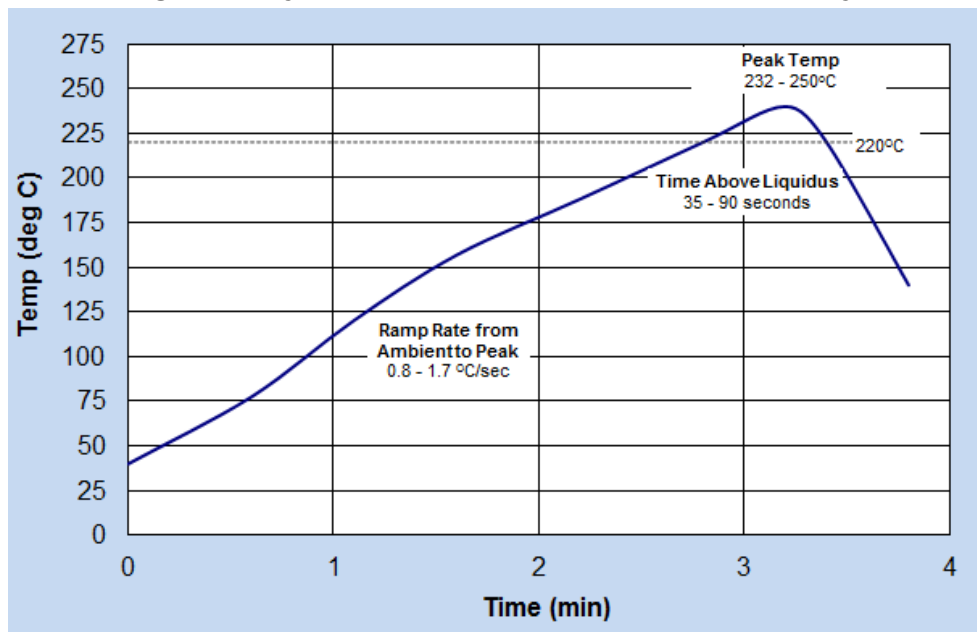


Figure 2: Typical Ramp Reflow Profile for SAC Alloys



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 1 year from the manufacturing date. If the material has been chilled, the container should be allowed to reach room temperature before opening 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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