

ALPHA[®] OL204A ROHM

Lead-Free Solder Paste for Fine-Pitch Printing

FEATURES & BENEFITS

- Flux used for solder paste **ALPHA OL204A ROHM** is developed for Sn/Ag/Cu lead-free paste. Specific features are shown below.
- The viscosity changes during long time continuous printing, over 24 hours, under our test environment, is relatively small, so you can use the solder paste without loss.
- A speciality high-temperature resin is used for the flux; it is applicable for high temperature pre-heating process and the residue is transparent.
- Solder and flux spattering during reflow is protected.
- Because of a good rolling property, the printability for fine pitch pattern is good.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

ALPHA OL204A ROHM is formulated for stencil printing application. The tack life is more than 24 hours, though it depends on the various conditions. The following is an example of specifications. Regarding metal content and viscosity, various specifications are available. Please contact us for the details.

Application	Alloy	Metal Content	Powder Mesh Size	Viscosity (±10%)
Stencil Printing	Aloy305(Sn/Ag/Cu)	88.50%	325 Mesh	2000P
	Others		400 Mesh	

Removal of Flux Residues

It is not necessary to clean the flux residues, because it has good anti-corrosion and insulation properties. When it is necessary to clean, it is possible to clean it by Alpha's Cleaner or Terpene Cleaner EC-7/7R.

TECHNICAL DATA

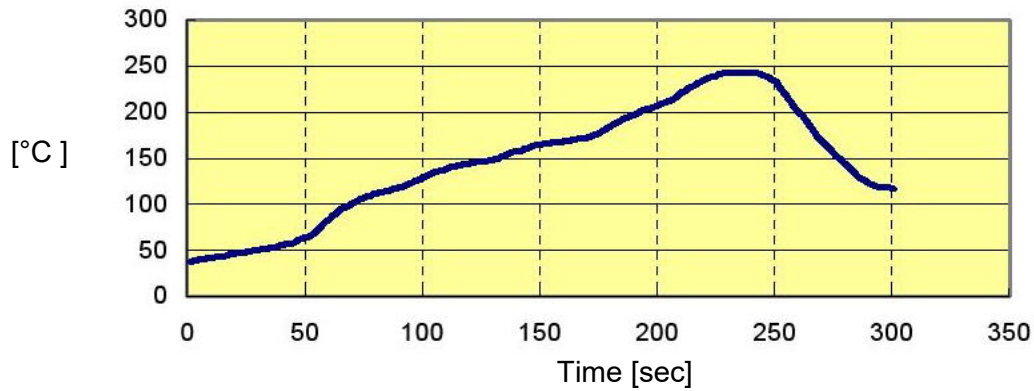
Category	Results
Flux Properties	
Silver-chromate paper Test (JIS-Z-3197)	Pass
Copper Mirror Corrosion Test (JIS-Z3197)	Pass
Migration/Insulation Resistance Test (JIS-Z-3284) Test Condition 85 °C/85%RH/1008hours Applied Voltage: -48VDC Measuring Voltage:100VDC	No Migration, $6.5 \times 10^9 \Omega$
Water Solution Resistance Test (JIS-Z-3197)	101.1k Ω -cm
Halide Surfactant Content (JIS-Z-3284)	0.0% (not contain as raw material)
Hot Slump Test (JIS-Z-3284)	No contact until 0.3mm space
Solder Spreading Test (JIS-Z-3197)	83%

PROCESSING GUIDELINES
Handling Precautions

1. Store in a dark cool place (@ 0 to 10 °C).
2. Recommend operation of the printer and the dispenser in the environment of 23 to 25 °C and 40%RH 60% RH.
3. Let the paste to reach room temperature before use.
4. Close the lid of container at the end of work or when operation stops for long time.
5. Never use the dry portion. Should drying take place, remove the dry portion before use.

REFLOW PROFILE

Example of Reflow Temperature Profile- 5 Zones, Hot Air Reflow Furnace



AVAILABILITY

ALPHA OL-204A ROHM is available in 500g jars or 100c syringes.

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

Refrigerate to guarantee stability @ 0 to 10 °C (32 to 50 °F). When stored under these conditions, the shelf life of ALPHA OL204A is 120 days. Unopened jars of paste can be stored for 4 weeks at room temperature up to 25 °C (77 °F) prior to use.

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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