

# ALPHA<sup>®</sup> 201B

## Water Soluble Organic Fluxes

### DESCRIPTION

**ALPHA 201B** is a Type OA flux formulated from organic compounds dissolved in a suitable solvent vehicle of highest purity. Post-soldering residues are completely water-soluble. With proper cleaning techniques, these highly effective fluxes are safe to employ in electronic soldering operations. Cleanliness levels exceeding the requirements of MIL-P-28809 are readily achieved.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### APPLICATION GUIDELINES

ALPHA 201B is a non-flammable, water-based organic formulation for dip or wave application.

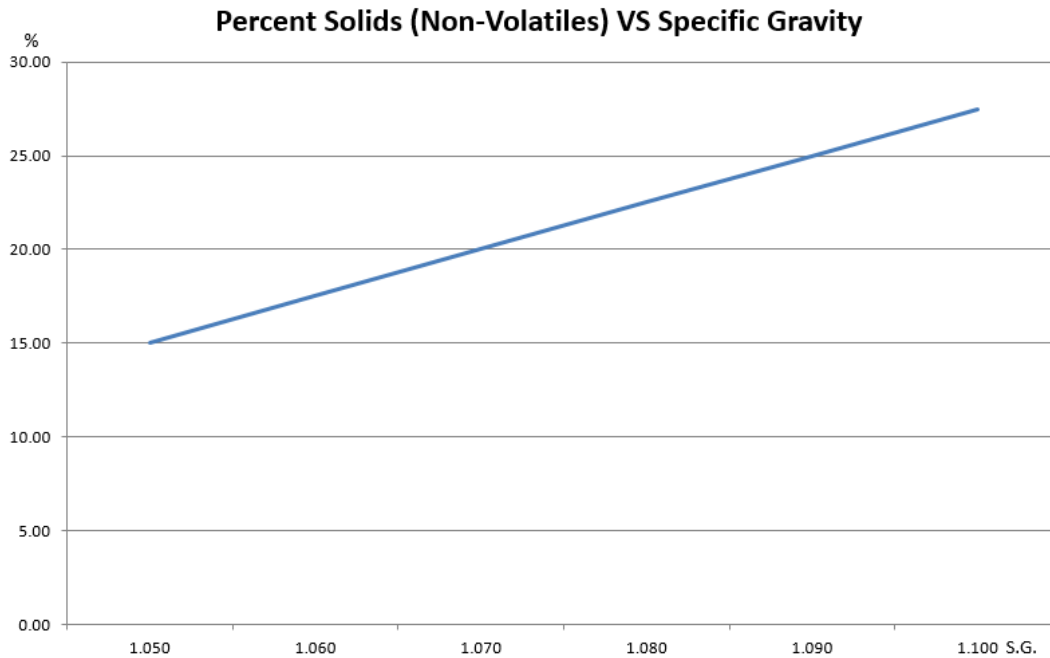
ALPHA 201B is used in applications where rosin fluxes are not strong enough and inorganic fluxes are too corrosive. This flux functions effectively over a wide temperature range, making them suitable for soldering both low temperature alloys based on Indium or Bismuth, as well as regular Tin-Lead alloys.

ALPHA 201B is suitable for soldering the following metals and alloys:

Brass	Bronze	Cadmium	Copper	Gold
Iron	Iron Allys*	Kovar .52 Alloy*	Lead	Nickel
Silicon-Bronze	Silver	Solder (Plate)	Terne (Plate)	Tin

\* Under favorable conditions only.

**Thinning:** The solids content should be maintained by the addition of thinner to compensate for evaporation losses. In general, it is recommended that the solids content not be allowed to increase by more than 5% before the addition of thinner. ALPHA 201B is thinned with water. Flux solids content is readily controlled by simple hydrometer measurement in conjunction with the graphs shown below.



**Residue Removal:** Residues of ALPHA 201B should be removed by a thorough water wash immediately after all electrical, printed circuit and electronic soldering applications. ALPHA 2444 Rinse Aid concentrate may be added to the wash water to aid in removal of these residues.

It is important to note that if ALPHA 201B is overheated, it may char, leaving a black carbonaceous residue that is not soluble in water. Avoid overheating this flux.

#### TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Clear, Colorless Liquid to Pale Yellow Liquid	Pound per Gallon @ 25 °C (77 °F)	8.87
Solids Content, %wt/wt	19.0	Recommended Thinner	DI Water
Specific Gravity @ 25 °C (77 °F)	1.066 ± 0.005	Shelf Life (from Date of Mfg.)	720 Days
Flash Point (T.C.C.)	None	IPC J-STD-004 Designation	ORH1
Packaging Size	1, 5 & 55 Gallons		

**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).**

**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>
--	--	---

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

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE.** The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "R" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.