

ALPHA® 90

Water Soluble Inorganic Acid Flux

DESCRIPTION

ALPHA 90 is a strong, highly active water-soluble inorganic acid flux for use on stainless steel and other difficult-to-solder metals. This flux is not normally used in electronic applications. It is ideal for the soldering of light-gauge materials without buckling or discoloration because of the low temperature at which it becomes active.

Efficient wetting agents assure rapid, uniform penetration of flux into all areas. **ALPHA 90** Flux is buffered by salts so that the residues after soldering are readily soluble in water and less corrosive than residues of conventional “acid” fluxes. A high concentration of active fluxing agents reduces spattering to a minimum.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

Flux Application: ALPHA 90 is used in dip soldering of cans, hard-wave, and similar articles, using torch, iron, oven, resistance, and induction heating.

ALPHA 90 Flux is ideally suited for soldering the following materials:

Beryllium-Copper	Galvanized Iron	Solder (Plate)
Brass	Lead	Steel/Stainless
Bronze	Nickel (Plate)	Steel
Chromium	Nickel-Iron	Terne (Plate)
Copper	Silicon-Bronze	Tin
	Silver	Tin-Nickel

Thinning: ALPHA 90 is carefully balanced for best results, and will not require thinning with water under normal usage.

Residue Removal: The post-soldering residues of ALPHA 90 is corrosive and must be removed from the assembly promptly. The flux residues are most effectively removed by rinsing with a 1% solution of hydrochloric acid, followed by a water rinse.

TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Yellow to Amber Liquid	Flash Point	None
Specific Gravity @ 25 °C (77 °F)	1.32 ± 0.01	Shelf Life (from Date of Mfg.)	1080 Days
Lb./Gal. at 25 °C (77 °F)	11.0	Packaging Size	1 Gallon

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.**

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>
---	--	---

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. "®" and "™" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.