

ALPHA[®] 6259

Low Solids, No-Clean Flux

DESCRIPTION

ALPHA 6259 is a very efficient halide-free and rosin/resin-free, low solids no-clean flux. After soldering, a very small amount of barely visible residue is left which is tack-free and non-corrosive, making residue removal from the boards unnecessary.

Flux residues can be removed from the board fixtures and even the boards themselves if desired using hot water, provided the aqueous cleaner has a mechanical brush state in addition to the normal spray jets. This makes **ALPHA 6259** ideal for use as both a no-clean or water-cleanable flux.

ALPHA 6259 meets the IPC-SF-818 standard requirements for classification as Flux Type L2NC, for use with electronic circuits of the high level of reliability.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Very low solids; no cleaning necessary
- Non-corrosive residues resulting to high SIR assemblies
- Fast wetting promoting defect-free soldering
- Tack-free residues allowing accurate pin testing
- Water-washable residues providing an option for aqueous cleaning
- Outstanding foaming properties

APPLICATION GUIDELINES

ALPHA 6259 flux can be applied by foam, spray or wave techniques. Topside preheat temperature of 180 to 220 °F (80 to 105 °C) is recommended.

ALPHA 6259 flux can be maintained by specific gravity monitoring. As an added measure of flux control, Alpha's Flux Solids Control Kit can be used. This titration kit allows an operator to check the solids content of the flux sump by a simple dropper technique.

TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Clear colorless to pale yellow liquid	Flash Point (T.C.C.)	54 °F (12 °C)
Solids Content, wt/wt	2.7	Recommended Thinner	ALPHA 425
Specific Gravity @ 25 °C (77 °F)	0.798 ± 0.003	Shelf Life (from Date of Mfg.)	540 days
Acid Number (mg KOH/g)	20 ± 2	Packaging Size	1, 5 and 55 gallons

CORROSION & ELECTRICAL TESTING
Corrosion Test

Test	Requirement	Results
Silver Chromate Paper	No Detection of Halide	Pass
Copper Mirror Test	No Complete Removal of Copper	Pass
Copper Corrosion Test	No Evidence of Corrosion	Pass

Surface Insulation Resistance (All Values in OHMS)

Test	Requirement	Typical Result
SIR	> 1.0 x 10 ⁸	1 x 10 ⁹
Test Condition: 50 °C/90%RH/ 7 days; IPC Classification: Type L2NC		

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