



KESTER® 2120 SOLDERING FLUX

Halide-Free, Organic Flux

DESCRIPTION

Kester 2120 Soldering Flux is a halide-free, 14% solids organic flux designed for automated soldering of circuit board assemblies. This flux provides good activity on both bare copper and solder coated boards. The absence of chlorides, bromides, phosphates and highly corrosive materials facilitates removal after soldering. 2120 produces bright, shiny solder joints and high ionic cleanliness after water cleaning.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- High activity
- Minimizes icicling and bridging
- Chemically compatible with most solder masks and board laminates
- High ionic cleanliness
- No surface insulation resistance degradation
- Excellent choice for surface mount boards
- Classified as ORH0 per J-STD-004
- Completely biodegradable for environmentally safe disposal of the wash water
- No offensive odors or excessive smoke emitted during soldering
- Will not create excessive foaming in standard water cleaning systems
- Provides better surface insulation resistance than typical water soluble fluxes, making it particularly suitable for surface mount assemblies

ROHS COMPLIANCE

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive, 2015/863 for the stated banned substances.



Issue: 22 February 2021



TECHNICAL DATA SHEET

PHYSICAL PROPERTIES

Properties	2120 Flux	4662 Flux
Specific Gravity @25 °C	0.862 ± 0.005	0.786 ± 0.005
pH (neat) *	3.8	
Acid Number, mgKOH/gm	58.0 ± 3.0	
Halide Content	none	none
Phosphate Content	none	None
Sulfate Content	none	none
Flash Point (T.O.C.)*		65 °F (18 °C)
Autoignition temperature*		750 °F (399 °C)

^{*}Typical values

FLUX APPLICATION

The flux can be applied to circuit boards by use of spray, dip, wave or foam fluxing techniques. The flux is best applied with foam fluxing equipment. 2120 will provide a uniform head of small bubbles with low air pressure. The flux level should be maintained at about ½ inch (1.3 cm) above the stone in a foam fluxer. An air knife after the flux tank is recommended to remove excessive flux from the circuit board and prevent dripping on the preheater surface. Preheating to 180 to 220 °F (82 to 104 °C) on the top or component side of the printed circuit board is recommended to evaporate the solvent vehicle, bring the flux to its optimum activation state and maximize soldering performance.

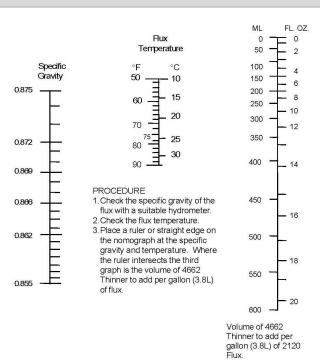


Issue: 22 February 2021



TECHNICAL DATA SHEET

FLUX CONTROL



Checking the specific gravity at regular intervals and adding the appropriate amount of Kester 4662 Thinner will assure consistent, controlled soldering results. Use of the Flux control nomograph simplifies determination of the correct amount of thinner to add to return the flux to its correct specific gravity.

PROCESSING GUIDELINES

Cleaning

No neutralizers, saponifiers or detergents are necessary in the water wash system for complete removal of flux residues. Deionized, distilled or softened tap water are recommended for cleaning. The optimum water temperature is 110 to 130 °F (43 to 54 °C).

Storage, Handling And Shelf Life

2120 is flammable. Store away from sources of ignition. Shelf life is 2 years from date of manufacture when handled properly and held at 10 to 25 °C (50 to 77 °F).



Issue: 22 February 2021



TECHNICAL DATA SHEET

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.



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.**

CONTACT INFORMATION

www.macdermidalpha.com

North America
140 Centennial Avenue
Piscataway, NJ 08854
1.800.367.5460

Europe

Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400

Asia

8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365

Also read carefully PRIOR TO PRIOR TO PRODUCT USE. Emergency safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THORUGHLY 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 021 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

