

275 Flux-Cored Wire

No-Clean Cored Wire for Lead-free and Leaded Alloys

Product Description

Kester 275 Flux-Cored Wire is designed to provide superior wetting performance for hand soldering in the electronics industry. The chemistry is based on some of the same principles that have been safely used for years in mildly activated rosin fluxes. The use of 275 results in an extremely clear post-soldering residue without cleaning. The unique chemistry in 275 was also designed to reduce spattering common to most core fluxes. 275 can be used for both lead-free and leaded soldering. For a list of compatible products, visit Kester' website or contact Kester Technical Support.

Performance Characteristics:

- Colorless translucent residues
- Improves wetting performance
- Excellent solderability and fast wetting to a variety of surface finishes
- Eliminates the need and expense of cleaning
- Low smoke and odor
- Low spattering
- Compatible with lead-free and leaded alloys
- Classified as ROL0 per J-STD-004
- Compliant to Bellcore GR-78

RoHS Compliance

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive, 2011/65/EU for the stated banned substances. (Applies only if this core flux is combined with a lead-free alloy.)

Reliability Properties

Copper Mirror Corrosion: Low

Tested to J-STD-004, IPC-TM-650, Method 2.3.32

Corrosion Test: Low

Tested to J-STD-004, IPC-TM-650, Method 2.6.15

Silver Chromate: Pass

Tested to J-STD-004, IPC-TM-650, Method 2.3.33

Chloride and Bromides: None Detected

Tested to J-STD-004, IPC-TM-650, Method 2.3.35

Fluorides by Spot Test: Pass

Tested to J-STD-004, IPC-TM-650, Method 2.3.35.1

Spread Test (typical):

Tested to J-STD-004, IPC-TM-650, Method 2.4.46

Flux-Cored Solder	Area of Spread mm ² (in ²)	
	Sn96.5Ag3.0Cu0.5	Sn63Pb37
285 Mildly Activated Rosin	213 (0.33)	335 (0.52)
245 No-Clean	200 (0.31)	348 (0.54)
275 No-Clean	219 (0.34)	361 (0.56)

Surface Insulation Resistance (SIR), IPC (typical): Pass

Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

Test Conditions: 85 °C, 85% RH, 7 days, 100V

Surface Insulation Resistance (SIR) 40 °C/90% RH, IPC (typical): Pass

Tested to J-STD-004B, IPC-TM-650, Method 2.6.3.7

Availability

275 is available in a wide variety of alloys, wire diameters and flux percentages. For most applications, Sn63Pb37, Sn96.5Ag3.0Cu0.5 or K100LD is used. Please refer to <https://www.kester.com> for wire diameters, flux percentages, alloys and roll sizes that are available.

Note: Core Size 50, 58 and 66 = 1.1%, 2.2% and 3.3% flux core.

Process Considerations

Solder iron tip temperatures are most commonly between 315 to 343 °C (600 to 650 °F) for Sn63Pb37 and Sn62Pb36Ag02 alloys, and between 371 to 400 °C (700 to 750 °F) for lead-free alloys. Heat both the land area and component lead to be soldered with the iron prior to touching the land with the cored wire. Do not apply the wire directly to the soldering iron tip. If needed, 959T or 985M no clean flux may be used as a compatible liquid flux to aid in reworking soldered joints. 959T is available as a Flux-Pen[®] for optimum board cleanliness.

Cleaning

The 275 flux residues are non-corrosive, non-conductive and do not require removal in most applications. IPA will not clean the residues off the surface of the circuit board after the soldering process. A saponifier or cleaning agent specifically designed to clean a no-clean flux is required to clean the residues. Please contact Kester Technical Support for further information.

Storage, Handling and Shelf Life

Storage must be in a dry, non-corrosive environment between 10 to 40 °C (50 to 104 °F). The surface may lose its shine and appear a dull shade of grey. This is a surface phenomenon and is not detrimental to product functionality. Flux-cored solder wire has a shelf life determined by the alloy used in the wire. For alloys containing more than 70% lead, the shelf life is 2 years from the date of manufacture. Other alloys have a shelf life of 3 years from the date of manufacture.

Health and Safety

This product, during handling or use, may be hazardous to your health or the environment. Read the Safety Data Sheet and warning label before using this product. Safety Data Sheets are available at <https://www.kester.com/downloads/sds>.

Contact Information

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

North America 800 West Thorndale Avenue Itasca, IL USA 60143 Phone: +1 800.2.KESTER	Asia Pacific 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong Phone: +852.3190.3100	Europe Ganghofer Strasse 45 82216 Gerlinden, Germany Phone: +49 (0) 8142 4785 0
---	--	---

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 of MacDermid, Inc. and its group of companies in the United States and/or other countries.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Solder](#) category:

Click to view products by [Kester](#) manufacturer:

Other Similar products are found below :

[600YSY](#) [701-2758](#) [707-1746](#) [707-1748](#) [707-1811](#) [707-1813](#) [707-1831](#) [707-1840](#) [707-1850](#) [707-1852](#) [13-217-3-01](#) [P10695](#) [SN63WRAP3-.022-1-LB](#) [24-6040-0007](#) [DAC-061](#) [701-2089](#) [707-0285](#) [707-0366](#) [707-0441-26](#) [707-1774](#) [707-1810](#) [24-6337-9727](#) [601Y](#) [24-9574-7619](#) [24-4060-2437](#) [14-6040-0125](#) [04-0595-0000](#) [V5S35\[42G\]217](#) [V8B45\[60G\]138](#) [V5B45\[42G\]138](#) [V3B45\[20G\]138](#) [XGS20\[20G\]158](#) [631960](#) [SW02-10](#) [S2626-O-T](#) [8055](#) [5760140](#) [TRWR-204](#) [1152](#) [EC2002M-1](#) [WPT17](#) [WS6016](#) [760-2028](#) [8001115](#) [8001073](#) [8001495](#) [ART.AGT-030](#) [389289](#) [54068](#) [ECO 1 \(SNCU1\) FLUX B2.1 0,8 MM 250G](#)