

# RF771 Rework Flux

## Water Soluble Electronic Grade

---

### Product Description

Kester RF771 Rework Flux is a medium viscosity, water soluble flux designed for electronic component rework and repair applications. RF771 has a gel-like consistency and is easily applied by syringe dispensing. RF771 can be precisely dispensed onto a specific area that needs flux. After being dispensed, RF771 stays in place until soldering occurs. Traditional problems experienced with controlling the application of water soluble liquid fluxes are eliminated. RF771 has excellent performance in applications that require a flux having good thermal stability such as surface mount component repair. RF771 is the ideal choice for QFP or BGA semi-automated rework operations. In addition, RF771 is well suited for use with through-hole repair operations where solder fountain or controlled solder reservoir is being used for selective component removal and repair. Residues that remain on surfaces after soldering are easily removed with hot water. RF771 can be used in combination with Kester water soluble cored wire solders and water soluble solder pastes, as well as water soluble liquid fluxes, to provide the complete water soluble soldering connection.

### Performance Characteristics:

- Compatible with HM531 Solder Paste
- High thermal stability
- Leaves bright/shiny solder joints after reflow
- Classified as ORM0 per J-STD-004

### RoHS Compliance

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

### Physical Properties

**Viscosity (typical):** 285 poise

Malcom Viscometer @ 10 rpm and 25 °C

**Acid Number (typical):** 42.0 mg KOH/g of flux

Tested to J-STD-004, IPC-TM-650, Method 2.3.13

## Reliability Properties

### Copper Mirror Corrosion: High

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

### Corrosion Test: High

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

### Surface Insulation Resistivity (SIR), IPC (typical): Pass

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

|       | Blank                      | RF771                   |
|-------|----------------------------|-------------------------|
| Day 1 | $1.7 \cdot 10^{10} \Omega$ | $3.1 \cdot 10^8 \Omega$ |
| Day 4 | $1.0 \cdot 10^{10} \Omega$ | $4.4 \cdot 10^8 \Omega$ |
| Day 7 | $9.2 \cdot 10^9 \Omega$    | $9.2 \cdot 10^8 \Omega$ |

## Cleaning

RF771 is a water soluble flux and the residues must be removed. The recommended method of removing flux residues is in a batch washer or in-line cleaner, using de-ionized or soft water. The recommended washing temperature is 54 to 66 °C (130 to 150 °F).

## Storage, Handling and Shelf Life

Shelf life is 1 year from the date of manufacture when stored between to 0 to 10 °C (32 to 50 °F).

## 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](mailto:Assembly@MacDermidAlpha.com)

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