

# KESTER® RF550 Rework Flux

High-Reliability, Zero-Halogen, No-Clean

## DESCRIPTION

Kester RF550 Rework Flux is a high-reliability, zero-halogen, no-clean rework flux designed for electronic component rework and repair applications. RF550 has a gel-like consistency and is packaged in syringes for easy dispensing. RF550 can be precisely dispensed onto specific areas that require flux. After being dispensed, RF550 stays in place until soldering occurs. RF550 has excellent performance in applications requiring high reliability. RF550 is the ideal choice for QFP or BGA semi-auto- mated rework applications and is well suited for use with through-hole repair. RF550 compliments Kester's high reliability line of products which are formulated to leave safe residues. RF550 can be used in combinations with Kester no-clean flux-cored solder wires, no-clean solder pastes and no-clean liquid fluxes without any compatibility risks. For a list of compatible products, visit MacDermid Alpha's website or contact Technical Support.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

## FEATURES & BENEFITS

- Zero-halogen (none intentionally added)
- Classified as ROL0 per J-STD-004B

## ROHS COMPLIANCE

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

## TECHNICAL DATA

Category	Results	Procedure/Remarks
<b>Physical Properties</b>		
Viscosity (Typical)	310 poise	Malcom Viscometer @ 10 rpm and 25 °C
Acid Number (Typical)	162 mg KOH/g of flux	J-STD-004, IPC-TM-650, Method 2.3.13
<b>Reliability Properties</b>		

Category	Results	Procedure/Remarks
Copper Mirror Corrosion	Low	J-STD-004B, IPC-TM-650, Method 2.3.32D
Corrosion Test	Low	J-STD-004B, IPC-TM-650, Method 2.6.15
Halogen Content	None Detected	J-STD-004B, IPC-TM-650, Method 2.3.81
Electrochemical Migration (ECM)	Pass	J-STD-004B, IPC-TM-650, Method 2.6.14.1 Test Conditions: 65 °C +/- 2 °C, 85 +3/-0% RH
Bono Corrosion Test	Pass; Fc=1.1%	Test Conditions: 85 °C, 85% RH, 15 days, 12V
Bellcore SIR, IPC	Pass	All Readings >2.0x10 <sup>10</sup> Ω Tested to GR78 Core 13.1.3; Test Conditions: 35 °C, 85% RH, 4 days, 100V
Surface Insulation Resistance (SIR)	Pass	J-STD-004B, IPC-TM-650, Method 2.6.3.7 Test Conditions: 40 °C, 90% RH, 7 days, 12.5V
Surface Insulation Resistance (SIR)	Pass	J-STD-004B, IPC-TM-650, Method 2.6.3.7 Test Conditions: 40 °C, 90% RH, 7 days, 12.5V

## PROCESSING GUIDELINES

### Cleaning

RF550 is a no-clean formula. The residues do not need to be removed for typical applications. Although RF550 is designed for no-clean applications, its residues can be easily removed using automated cleaning equipment (in-line or batch) with a variety of readily available cleaning agents. If residue removal is required, call your local Technical Support.

### Storage, Handling And Shelf Life

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

## 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](http://www.macdermidalpha.com)

<b>North America</b> 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460	<b>Europe</b> Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400	<b>Asia</b> 8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365
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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

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