

RF550 Rework Flux

High-Reliability, Zero-Halogen, No-Clean

Product 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 Kester's website or contact Kester Technical Support.

Performance Characteristics:

- 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.

Physical Properties

Viscosity (typical): 310 poise

Malcom Viscometer @ 10 rpm and 25 °C

Acid Number (Typical): 162 mg KOH/g of flux

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

Reliability Properties

Copper Mirror Corrosion: Low

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

Corrosion Test: Low

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

Halogen Content: None Detected

Tested to J-STD-004B, IPC-TM-650, Method 2.3.81

Electrochemical Migration (ECM): Pass

Tested to J-STD-004B, IPC-TM-650, Method 2.6.14.1

Test Conditions: 65 °C +/- 2 °C, 85 +/-0% RH

Bono Corrosion Test: Pass; Fc=1.1%

Test Conditions: 85 °C, 85% RH, 15 days, 12V

Bellcore SIR, IPC: Pass

All Readings >2.0x10¹⁰ Ω Tested to GR78 Core 13.1.3;

Test Conditions: 35 °C, 85% RH, 4 days, 100V

Surface Insulation Resistance (SIR): Pass

Tested to 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

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

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

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 Kester Technical Support.

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](#).



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).

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 this [link](#).

Contact Information

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

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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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