

# RF742 Rework Flux

## No-Clean Electronic Grade Rework Flux

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### Product Description

Kester RF742 Rework Flux is a high-viscosity, no-clean flux designed for electronic component rework and repair applications. RF742 has a gel-like consistency and is easily applied by syringe dispensing. RF742 can be precisely dispensed onto a specific area that needs flux in hand soldering operations. After being dispensed, RF742 stays in place until soldering occurs. RF742 was designed as the ideal companion flux for hand soldering a PCB that already includes the residues from Kester FL250D solder paste. Traditional problems experienced with controlling the application of low solids no-clean liquid fluxes are eliminated with the use of RF742. Residues that remain on surfaces after soldering are almost colorless, leaving a cosmetically appealing post-soldering appearance. The residue has high electrical resistance and can be left on the assembly after soldering. However, the residues can also be easily removed using traditional saponification cleaners, semi-aqueous or hydrocarbon-based solvents. Residues are compatible with all no-clean fluxes in the Kester product line. RF742 can be used in combinations with Kester no-clean cored wire solders and no-clean solder pastes, as well as no-clean liquid fluxes without any compatibility risks.

### Performance Characteristics:

- Compatible with FL250D Solder Paste
- Leaves bright/shiny solder joints after reflow
- Classified as ROL0 per J-STD-004
- Compliant to Bellcore GR-78

### RoHS Compliance

Kester does not determine any applicable Restriction of Hazardous Substances (RoHS) exemptions for our lead containing products at the user level.

### Physical Properties

**Viscosity (typical):** 484 poise

Malcom Viscometer @ 10 rpm and 25 °C

**Acid Number (typical):** 80.0 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-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

### Surface Insulation Resistivity (SIR): Pass

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

	Blank	RF742
Day 1	7.3*10 <sup>9</sup> Ω	1.1 × 10 <sup>10</sup> Ω
Day 4	4.4*10 <sup>9</sup> Ω	8.2 × 10 <sup>9</sup> Ω
Day 7	3.9*10 <sup>9</sup> Ω	5.7*10 <sup>9</sup> Ω

## Cleaning

RF742 is a no-clean chemistry. The residues do not need to be removed for typical applications. If residue removal is required, call Kester 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).

## 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)

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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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