

RF742 No-Clean Electronic-Grade Rework Flux



Product Description

Kester RF742 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 @ 10rpm 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

Chloride and Bromides: None
Detected
Tested to J-STD-004, IPC-TM-650, Method 2.3.35

Surface Insulation Resistivity (SIR):
Pass
Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

Corrosion Test: Low
Tested to J-STD-004, IPC-TM-650, Method 2.6.15

Fluorides by Spot Test: Pass
Tested to J-STD-004, IPC-TM-650, Method 2.3.35.1

Silver Chromate: Pass
Tested to J-STD-004, IPC-TM-650, Method 2.3.33

	Blank	RF742
Day 1	7.3*10 ⁹ Ω	1.1 × 10 ¹⁰ Ω
Day 4	4.4*10 ⁹ Ω	8.2 × 10 ⁹ Ω
Day 7	3.9*10 ⁹ Ω	5.7*10 ⁹ 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 0-10°C (32-50°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.