

KESTER® RF742 REWORK FLUX

No-Clean Electronic Grade Rework Flux

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 MacDermid Alpha 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.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- 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

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

TECHNICAL DATA

Category	Results	Procedure/Remarks	
Physical Properties			
Viscosity (Typical)	484 poise	Malcom Viscometer @ 10 rpm and 25 °C	
Acid Number (Theoretical)	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 Resistance (SIR)	Pass	Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3	
		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

PROCESSING GUIDELINES

Cleaning

RF742 is a no-clean chemistry. The residues do not need to be removed for typical applications. 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

North America 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460	Europe Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400	Asia 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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