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MacDermid Alpha ELECTRONICS SOLUTIONS

TECHNICAL DATA SHEET

KESTER® RF771 REWORK FLUX

Water Soluble Electronic Grade

DESCRIPTION

Kester RF771 Rework Flux is a medium viscosity, water soluble flux designed for electronic component rework and repair applications. RF771 has a gel-like consistency and is easily applied by syringe dispensing. RF771 can be precisely dispensed onto a specific area that needs flux. After being dispensed, RF771 stays in place until soldering occurs. Traditional problems experienced with controlling the application of water soluble liquid fluxes are eliminated. RF771 has excellent performance in applications that require a flux having good thermal stability such as surface mount component repair. RF771 is the ideal choice for QFP or BGA semi-automated rework operations. In addition, RF771 is well suited for use with through-hole repair operations where solder fountain or controlled solder reservoir is being used for selective component removal and repair. Residues that remain on surfaces after soldering are easily removed with hot water. RF771 can be used in combination with Kester water soluble cored wire solders and water soluble solder pastes, as well as water soluble liquid fluxes, to provide the complete water soluble soldering connection.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Compatible with HM531 Solder Paste
- High thermal stability
- Leaves bright/shiny solder joints after reflow
- Classified as ORM0 per J-STD-004

ROHS COMPLIANCE

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

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TECHNICAL DATA

Category	Results	Procedure/Remarks
Physical Properties		
Viscosity (Typical)	285 poise	Malcom Viscometer @ 10 rpm and 25 °C
Acid Number (Theoretical)	42.0 mg KOH/g of flux	Tested to J-STD-004, IPC-TM-650, Method 2.3.13
Reliability Properties		
Copper Mirror Corrosion	High	Tested to J-STD-004, IPC-TM-650, Method 2.3.32
Corrosion Test	High	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	RF771
Day 1	$1.7*10^{10}$ Ω	$3.1*10^{8}$ Ω
Day 4	$1.0*10^{10}$ Ω	$4.4*10^{8}$ Ω
Day 7	$9.2*10^{9}$ Ω	$9.2*10^{8}$ Ω

PROCESSING GUIDELINES

Cleaning

RF771 is a water soluble flux and the residues must be removed. The recommended method of removing flux residues is in a batch washer or in-line cleaner, using de-ionized or soft water. The recommended washing temperature is 54 to 66 °C (130 to 150 °F).

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Storage, Handling and Shelf Life

Shelf life is 1 year from the date of manufacture when stored between to 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

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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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