

KESTER® NF372-TB FLUX-PEN®

Zero-Halogen, No-Clean Flux-Pen for High Reliability Applications

DESCRIPTION

Kester NF372-TB Flux-Pen is a zero-halogen, no-clean, low solids flux available as a Flux-Pen for rework of conventional and surface mount circuit board assemblies. NF372-TB flux passes IPC SIR testing in a raw or unheated state, ensuring NF372-TB Flux-Pens can be safely used in rework applications, specifically those with high reliability requirements. NF372-TB Flux-Pen residues are minimal, clear and non-tacky for improved cosmetics. NF372-TB Flux-Pen is classified as ROL0 flux under IPC J-STD-004B.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Zero-halogen (none intentionally added)
- Provides good solderability under air atmosphere
- Classified as ROL0 per J-STD-004B
- Pass SIR in raw state (unheated boards dried at 25 °C/50%RH for 24 hours before test)
- Non-corrosive, non-conductive and non-tacky residues
- Compliant to GR-78-CORE (Telcordia/Bellcore)

ROHS COMPLIANCE

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive.

TECHNICAL DATA

Category	Results	Procedure/Remarks
Physical Properties		
Acid Number (Typical)	16.6 mgKOH/gm	
Specific Gravity	0.793	@ 25 °C (Typical)
Solids Content (Theoretical)	3.90%	
Reliability Properties		

Category	Results	Procedure/Remarks
Copper Mirror	Low	J-STD-004B, IPC-TM-650, Method 2.3.32
Corrosion Corrosion	Low	J-STD-004B, IPC-TM-650, Method 2.6.15
Halogen Content	None Detected	J-STD-004B, IPC-TM-650, Method 2.3.28.1
Electrochemical Migration (ECM)	Pass	J-STD-004B, IPC-TM-650, Method 2.6.14.1 Test Conditions: 65 °C, 90% RH, 100V, 25 Days
Surface Insulation Resistance (SIR)	Pass, [All Readings >1.0x10 ⁸ Ω]	J-STD-004B, IPC-TM-650, Method 2.6.3.7 Test Conditions: 40 °C, 90% RH, 12.5V, 7 Days
Surface Insulation Resistance (SIR)	Pass	J-STD-004A, IPC-TM-650, Method 2.6.3.3 Test Conditions: 85 °C, 85% RH, 100V, 7 Days
Surface Insulation Resistance (SIR) Bellcore	Pass, [All Readings >2.0x10 ¹⁰ Ω]	GR-78 13.1.3 Test Conditions: 35 °C, 85% RH, 100V, 4 Days
Bono Corrosion Test	Pass, [Fc = 0.5%]	Test Conditions: 85 °C, 85% RH, 12V, 15 Days

FLUX APPLICATION

NF372-TB Flux-Pen is applied to circuit boards via Flux-Pen for rework of printed wire assemblies.

PROCESSING GUIDELINES

Process Considerations

For best soldering performance, NF372-TB Flux-Pen should only be applied to areas that will be fully heated by the soldering iron or other reflow tool. Care should be taken to avoid flooding the assembly. In cases of over application or incomplete heating, NF372-TB Flux-Pen has passed SIR testing and has not contributed to corrosion.

Cleaning

NF372-TB Flux-Pen residues are non-conductive, non-corrosive and do not require removal in most applications. If residue removal is required, it can be removed using commercially available flux residue cleaner. Contact MacDermid Alpha Technical Support for additional assistance.

Storage, Handling and Shelf Life

NF372-TB Flux-Pen is flammable. Store away from sources of ignition. Shelf life is 2 years from the date of manufacture when handled properly and held at 10 to 25 °C (50 to 77 °F). The cap must be in place when not being used.

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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