

Excellent Integrated System Limited

Stocking Distributor

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Kester 83-1000-0951

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Kester: Excellent Integrated System Limited

Datasheet of 83-1000-0951 - FLUX PEN FORMULA 951 NO CLEAN

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



951 FLUX-PEN® Low-Solids No-Clean Flux-Pen®



Kester 951 Flux-Pen® is a halogen-free, non-rosin Flux-Pen® that is specifically designed for rework of conventional and surface mount circuit board assemblies. The extremely low solids content (2.0%) and nature of the activator system results in practically no residue left on the assembly after soldering. There are no residues to interfere with electrical testing. 951 Flux-Pen® exhibits improved soldering performance to minimize solder bridges (shorts) during rework operations. This flux is suitable for automotive, computer, telecommunications and other applications where reliability considerations are critical. The surface insulation resistance on soldered boards is higher than that provided by typical organic water-soluble fluxes. 951 Flux-Pen® contains a corrosion inhibitor such that no corrosion products are formed when bare copper surfaces are exposed to humid environments.

Performance Characteristics:

- Improves soldering performance
- Eliminates the need and expense of cleaning
- Non-corrosive tack-free residues
- Compliant to GR-78-CORE
- Classified as ORL0 per J-STD-004



RoHS Compliance

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive, 2011/65/EU for the stated banned substances.



Specific Gravity: 0.814 Anton Paar DMA @ 25°C Percent Solids (theoretical): 2.0%

Acid Number (typical): 14.3 mg KOH/g flux Tested by potentiometric titration



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 SIR, IPC (typical): Pass Tested to J-STD-004, IPC-TM-650, Method 2.6.3

	Blank	951
Day 1	2.3 ×10 ¹⁰ Ω	$9.4 \times 10^{9} \Omega$
Day 4	1.3 ×10 ¹⁰ Ω	$7.8 \times 10^{9} \Omega$
Day 7	9.8 ×10 ⁹ Ω	$6.3 \times 10^{9} \Omega$



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Application Notes





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

Process Considerations

951 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. The surface tension has been adjusted to help the flux form a thin film on the board surface allowing rapid solvent evaporation.



951 Flux-Pen® flux residues are non-conductive, non-corrosive and do not require removal in most applications.

Storage, Handling and Shelf Life

951 Flux-Pen® is flammable. Store away from sources of ignition. Shelf life is 1 year from the date of manufacture when handled properly and held at 10-25°C (50-77°F). The cap must be in place when not being used.

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.