RF741 Rework Flux
No-Clean Electronic-Grade

Product Description

Kester RF741 is a high-viscosity, no-clean flux designed for electronic component rework and repair applications. RF741 has a gel-like consistency and is easily applied by syringe dispensing. RF741 can be precisely dispensed onto a specific area that needs flux. After being dispensed, RF741 stays in place until soldering occurs. Traditional problems experienced with controlling the application of low solids no-clean liquid fluxes are eliminated. RF741 has excellent performance in applications requiring a flux having good thermal stability such as surface mount component repair. RF741 is the ideal choice for QFP or BGA semi-automated rework operations. In addition, RF741 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 almost colorless, leaving a very cosmetically appealing repair. The residue has high electrical resistance and can be left on the assembly after soldering. Residues are compatible with all no-clean fluxes in the Kester product line. RF741 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 most no-clean chemistries
- Leaves bright/shiny solder joints after reflow
- Classified as ROL0 per J-STD-004
- Compliant to Bellcore GR-78

RoHS Compliance

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

Physical Properties

Viscosity (typical): 180 poise
Malcom Viscometer @ 10rpm and 25°C

Acid Number (typical): 75.0 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 Resistivity (SIR): Pass
Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

<table>
<thead>
<tr>
<th></th>
<th>Blank</th>
<th>RF741</th>
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</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>$2.5 \times 10^9 \Omega$</td>
<td>$4.0 \times 10^8 \Omega$</td>
</tr>
<tr>
<td>Day 4</td>
<td>$1.5 \times 10^9 \Omega$</td>
<td>$1.6 \times 10^9 \Omega$</td>
</tr>
<tr>
<td>Day 7</td>
<td>$1.4 \times 10^9 \Omega$</td>
<td>$4.0 \times 10^9 \Omega$</td>
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Cleaning

RF741 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.