Product Description

Kester RF742 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 Kester 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.

Performance Characteristics:
- 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

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

Physical Properties

- Viscosity (typical): 484 poise
  Malcom Viscometer @ 10 rpm and 25°C
- Acid Number (typical): 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 Resistivity (SIR):
  Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

<table>
<thead>
<tr>
<th>Day</th>
<th>Blank</th>
<th>RF742</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7.3*10⁸ Ω</td>
<td>1.1 x 10¹⁰ Ω</td>
</tr>
<tr>
<td>4</td>
<td>4.4*10⁹ Ω</td>
<td>8.2 x 10⁸ Ω</td>
</tr>
<tr>
<td>7</td>
<td>3.9*10⁹ Ω</td>
<td>5.7*10⁸ Ω</td>
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Cleaning

RF742 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.