

# 182 Mildly Activated Rosin Liquid Flux For Solderability Testing

# **Product Description**

Kester 182 rosin flux is a clear homogeneous solution of 25% pure colophony dissolved in isopropyl alcohol with 0.15% diethylamine hydrochloride (CAS 660-68-4). It has been formulated to meet the requirements of IPC J-STD-002 and J-STD-003 for solderability testing.

Kester 182 is highly recommended for solderability testing of leads, printed circuit boards and other electrical components because of its consistently high quality.

### **Performance Characteristics:**

- High quality for solderability testing
- Classified as ROL1 per J-STD-004

# **Physical Properties**

Specific Gravity: 0.843 ± 0.005 Antoine Paar DMA 35 @ 25°C

Percent Solids (typical): 25 Tested to J-STD-004, IPC-TM-650, Method 2.3.34

Flash Point: 18°C (64°F)

# **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: Fail Tested to J-STD-004, IPC-TM-650, Method 2.3.33

Chloride and Bromides: 0.05% 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

# **Application Notes**

## Flux Application:

Kester 182 is typically applied by a dip process.

#### **Process Considerations:**

Kester 182 is highly recommended for solderability testing of leads, printed circuit boards and other electrical components because of their consistently high quality.

### **Flux Control:**

Specific gravity is normally the most reliable method to control the flux concentration of rosin-based fluxes. To check concentration, a hydrometer should be used. The solvent system for the flux makes it imperative that Kester 4662 Thinner be used to replace evaporative losses. When excessive debris from circuit boards, such as board fibers and from the air line build up in the flux tank, these particulates will redeposit on the circuit boards which may create a build up of residues on probe test pins. It is, therefore, necessary to clean the tank and then replenish it with fresh flux when excessive debris accumulates in the flux tank.

### **Cleaning:**

Kester 182 flux residues are non-conductive, non-corrosive and do not require removal in most applications.

### Storage and Shelf Life:

Kester 182 is flammable. Store away from sources of ignition. Shelf life is 2 years from date of manufacture when handled properly and held at 10-25°C (50-77°F).

### Health & Safety:

This product, during handling or use, may be hazardous to health or the environment. Read the Material Safety Data Sheet and warning label before using this product.

World Headquarters: 800 West Thorndale Avenue, Itasca, Illinois, 60143 USA Phone: (+1) 847-297-1600 • Email: customerservice@kester.com • Website: www.kester.com

Asia Pacific Headquarters 500 Chai Chee Lane Singapore 469024 (+65) 6449-1133 customerservice@kester.com.sg European Headquarters Zum Plom 5 08541 Neuensalz Germany (+49) 3741 4233-0 customerservice@kester-eu.com

Japanese Headquarters 20-11 Yokokawa 2-Chome Sumida-Ku Tokyo 130-0003 Japan (+81) 3-3624-5351 jpsales@kester.com.sg

The data recommendations presented are based on tests, which we consider reliable. Because Kester has no control over the conditions of use, we disclaim any responsibility connected with the use of any of our products or the information presented. We advise that all chemical products be used only by or under the direction of technically qualified personnel who are aware of the potential hazards involved and the necessity for reasonable care in their handling. The technical information contained herein is consistent with the properties of this material but should not be used in the preparation of specifications as it is intended for reference only. For assistance in preparing specifications, please contact your local Kester office for details.