

# 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.

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