

# 186 FLUX-PEN<sup>®</sup>

## Mildly Activated Rosin Flux-Pen<sup>®</sup> for Lead-bearing and Lead-free Alloys



### Product Description

Kester 186 Flux-Pen<sup>®</sup> is specifically designed for leaded and lead-free rework of conventional and surface mount circuit board assemblies. 186 Flux-Pen<sup>®</sup> under MIL-F-14256, was QPL approved as Type RMA. Although the fluxing ability approaches that of Type RA flux, residues after soldering are non-corrosive and non-conductive. 186 Flux-Pen<sup>®</sup> has been developed for use in critical applications where difficult assemblies are to be soldered, but process requirements stipulate use of Type RMA flux. 186 Flux-Pen<sup>®</sup> possess high thermal stability for soldering multi-layer assemblies which require higher temperatures. Exposure to high preheat temperatures does not degrade solubility of the residue in normal cleaning solvents. There is no surface insulation resistance degradation caused by the flux residue. The use of a minimum of ionic activating agents and the inactive nature of the residue permits leaving the residue on circuit board assemblies for many applications. The flux residue is also moisture and fungus resistant.

### Performance Characteristics:

- High thermal stability
- Improves soldering performance
- Eliminates the need and expense of cleaning
- Classified as ROL0 per J-STD-004 & J-STD-004B



### RoHS Compliance

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive. Additional RoHS information is located at <https://www.kester.com/downloads/environmental>.



### Physical Properties

**Specific Gravity:** 0.879  
Anton Paar DMA @ 25°C

**Percent Solids (theoretical):** 36%  
IPC-TM-650, Method 2.3.34

**Acid Number (typical):** 55 mg KOH/g flux  
IPC-TM-650, Method 2.3.13

**Flash Point:** 18°C (64°F)



### Reliability Properties

**Copper Mirror Corrosion:** Low  
IPC-TM-650, Method 2.3.32

**Chloride and Bromides:** 0.02%  
IPC-TM-650, Method 2.3.35

**Surface Insulation Resistivity (SIR):**  
Pass  
IPC-TM-650, Method 2.6.3.7

**Corrosion Test:** Low  
IPC-TM-650, Method 2.6.15

**Electrochemical Migration (ECM):**  
Pass  
IPC-TM-650 Method 2.6.14.1 [65°C, 85% RH, 100V, 21days]

**Surface Insulation Resistivity (SIR):**  
Pass  
IPC-TM-650, Method 2.6.3.3

**Silver Chromate:** Pass  
IPC-TM-650, Method 2.3.33

## Flux Application

186 Flux-Pen<sup>®</sup> is applied to circuit boards via Flux-Pen<sup>®</sup> for rework of printed wire assemblies.

## Process Considerations

186 Flux-Pen<sup>®</sup> 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.

## Cleaning

186 Flux-Pen<sup>®</sup> flux residues are non-conductive, non-corrosive and do not require removal in most applications.

## Storage, Handling and Shelf Life

186 Flux-Pen<sup>®</sup> 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). The cap must be in place when not being used.

## 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.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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