

Kester® 979VT

VOC-Free, No-Clean, Wave Soldering Flux

VOC-Free Wave Soldering Flux for Environmentally Friendly Applications

Kester 979VT Soldering Flux is a VOC-free, halide-free, rosin/resin free, no-clean wave soldering flux. Several proprietary additives are formulated into the chemistry which act to reduce the surface tension between the solder mask and the solder. This formulation dramatically reduces the tendency of solderball generation and results in a very clear appearance with exceptional joint and board cosmetics. 979VT is a low residue flux, providing excellent pin testability and minimizing equipment maintenance.



Key Features

- VOC-free for better environmental control
- Thermally stable activators provide low solder bridging
- No surface insulation degradation
- No offensive odor
- Chemically compatible with most solder masks & board laminates
- Low solids content prevents clogging or buildup around flux spray nozzles




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COPPER CORROSION TEST (IPC-TM-650 2.6.15)

Initial



After Aging

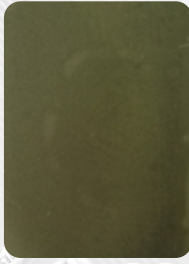


979VT (L) Corrosion


- Initial and after 10 days of exposure to 40 °C and 93% RH
- Minor corrosion was observed on the test panels without pitting of the copper, classified under "L" category as per J-STD-004 or "M" category as per J-STD-004B.

COPPER MIRROR TEST (IPC-TM-650 2.3.32)

Control



979VT



- There is no removal of the copper film, classified as "L" per J-STD-004B

TECHNICAL DATA	KESTER 979VT	PROCESS CONTROL	KESTER 979VT
Solids Content, wt/wt	5.0%	Flux Application	Spray/Dip
Acid Number (mg KOH/gm)	43.0	Amount of Flux Applied	120-240 µg/cm ² of solids
Specific Gravity @ 25 °C	1.014	Top-Side Preheat Temperature	110-155 °C
IPC J-STD-004 Designation	ORL0 (per J-STD 004) ORM0 (per J-STD 004B)	Bottom-Side Preheat Temperature	0 to +32 °C vs. Topside
Halogen-Free	No	Solder Pot	260-270 °C for SnCu or SAC alloy 245-260 °C for Sn63Pb37 alloy
SIR , IPC J-STD-004	Passed	Contact Time	3 – 8 s



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Kester is a product brand of MacDermid Alpha Electronics Solutions.

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