

EM2021AHF-L

WATER SOLUBLE FLUX

DESCRIPTION

EM2021AHF-L is a halogen-free*, organic acid activated water-soluble flux. **EM2021AHF-L** provides complete cleaning in water to low ionic levels while leaving a surface, which has high surface insulation resistance (SIR). This flux is specifically formulated for microelectronics and DIPs lead's tinning coating by dipping or wave-soldering process.

BENEFITS

- * Good activity level
- * Cleans to low ionic reading
- * Free of corrosive halides
- * High reliability

APPLICATION

EM2021AHF-L provides excellent wetting on IC's materials like Alloy 42, Nickel, Copper and its alloys. To achieve good solder-yield, set the preheater to achieve the component's package temperature to (120-130)° C prior solder wave. The post-residue after tinning can be removed with cold water. Lower ionic level can be achieved with final DI-water rinsed.

PHYSICAL PROPERTIES AND RELIABILITY DATA

PHYSICAL PROPERTIES AND RELIABILITY DATA	SPECIFICATION	TEST METHOD	RESULT (TYPICAL)
Flux Type	-	-	Water Soluble Halogen Free* organic
Class Type	Refer to J-STD-004	-	ORH0
Color / Appearance	-	-	Light Yellowish Liquid
Odor	-	-	Alcohol
Flash Point (T.O.C.)	-	-	18 °C
Specific Gravity@25°C	-	-	0.875 ± 0.005
Solid Content	-	J-STD-004, IPC-TM-650, Method 2.3.34	21.0 ± 2.0 %
Halide Content (%) (Chloride and Bromide)	Max 0.0%	JIS Z 3197, Method 8.1.4.2.1	0.00 %
pH (5% solution)	-	-	4
Corrosion Test	Major corrosion acceptable	J-STD-004, IPC-TM-650, Method 2.6.15	High
SIR, IPC (Typical) 85°C / 85% RH After 168 hours	Min 1 x 10 ⁸ Ω	J-STD-004, IPC-TM-650, Method 2.6.3.3	≥ 1 X 10 ¹¹ Ω After cleaning

* Halogen free as per specification of the standard IPC 4101B, IEC 61249-2-21 and JPCA-ES01

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assure legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made. Properties are typical and not to be used as specifications.

THINNING

EM2021AHF-L does exhibit some evaporation under normal operating conditions and in order to restore it to its original specific gravity, thinner should be used.

PACKING

Available in 25 litres carboy or 200 litres drum.

STORAGE

EM2021AHF-L flux is alcohol-based and is flammable. Store away from sources of ignition.

HEALTH AND SAFETY

Refer to the MSDS for guidance on safety and health issues.

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