

RF 32 LCF-M

Special Foam- and Spray Flux

Typ 2.1.3. according DIN EN 29 454

DESCRIPTION

Alpha flux *RF 32 LCF-M* is a special development for machine soldering with normal and inertgas atmosphere based on adipinic acid.

The flux is halide-free and has been developed with the aim to further improve soldering results. Virtually the flux doesn't leave any residue. Cleaning after soldering is not necessary.

PROCESS BENEFITS & FEATURES

- high surface resistance values caused by small solid matter amounts, MIL cleanness is reached
- visually, clean shiny surfaces
- excellent soldering results at SMD technology
- soldered assemblies could be proved without cleaning at circuit test systems
- no cleaning required

APPLICATION

Alpha flux *RF 32 LCF-M* has been developed for use in open systems and can also be used in nitrogen-soldering systems. Alpha *RF 32 LCF-M* could also be applicated with all conventional systems of surface mounting techniques. Density control or control of the acid number is not necessary when using flux systems.

For good soldering results and residue free surfaces, temperatures of 100 °C - 140 °C should be reached at the bottom of the circuit board.

DELIVERY SPECIFICATIONS

Alpha flux *RF 32 LCF M* is shipped with a density of $0.795 \pm 0.005 \text{ g/cm}^3$ at 20 °C and can be supplied in 25 l containers.

HANDLING AND SAFETY

Observe standard precautions for handling and use. Use in well ventilated areas. **DO NOT SMOKE**. Avoid prolonged or repeated contact with the skin by the use of solvent resistant gloves. Avoid contact with eyes.

Flammable, keep away from sparks and open flames. Empty containers can still be a flammable hazard from residual vapors.

Remove skin splashes by immediate washing with soap and water.

In order to carry out your full COSHH assessment, consult the product Material Safety Data Sheet (MSDS)



Cookson Electronics ASSEMBLY MATERIALS

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PHYSICAL AND CHEMICAL PROPERTIES

Flux residue cosmetics	:	clear, colourless solution
Solid matter	:	synthetic
Residue amount	:	2,0 % by weight
Specific gravity (density) at 20 °C	:	0,795 ± 0,005 g/cm ³
Acid value	:	14,5 - 15,7 mg KOH/g flux
Flashpoint	:	12 °C

RF 32 LCF-M Technical Data

Method	Result	Procedure / Remark
<u>Chemical Properties :</u>		
IPC Copper Mirror	No complete removal of copper. Passes	IPC J-STD-004
IPC Copper Corrosion	No evidence of corrosion. Passes	IPC J-STD-004
<u>Surface Insulation Resistance :</u>		
SIR (96 h at 40 °C /92% rel. F)	3,7 x 10 ⁸ Ω	Reference value untreated test board 7,3 x 10 ⁹ Ω
Elektromigration (Bellcore 500 h at 85°C/85% rel. F)	4,50 x 10 ³ Ω starting point comb pattern "Up" 1,15 x 10 ⁶ Ω starting point comb pattern "Up" 2,16 x 10 ³ Ω end point comb pattern "Down" 6,75 x 10 ² Ω end point comb pattern "Down"	Passes Bellcore GR78-CORE

