TECHNİCAL DATA SHEET

KURTEL NC 33 Liquid Flux

No Clean, No Rosin, No Halide

Description

KURTEL NC 33 Liquid Flux is an alcohol based cleaning product containing organic ingredients. Structures such as dirt, oil, oxide layer that can be found in the area to be soldered can decrease the solder quality. It reduces the bond strength formed during soldering and reduces the strength of the solder to metal. **KURTEL NC 33 Liquid Flux** is applied before soldering and provides cleaning of these harmful structures.

- No Halide
- Can be used with spray, foaming and dipping methods.
- Doesn't not require claning after the procedure. No Clean
- By reducing the surface tension, dirt, oil etc. İn the area. Removes such items.
- Prevents short circuits.

Application

KURTEL NC 33 Liquid Flux's packaging lid or the chamber in which it is filled must be closed and its contact with air must be stopped. Otherwise, volatiles in the product will cause mass loss. This mass loss will change product spesific gravity and affect performance and consumption data.

KURTEL NC 33 Liquid Flux can be used on copper, brass or tin-plated surfaces. It can be used in all lead or lead-free soldering pots.

Before using **KURTEL NC 33 Liquid Flux** , Material Safety Data Sheet must be read. Necessary personal protective equipment and physical conditions of the environment to be used should be taken into consideration.

Should never be mixed with other products. If it will be used fort he first time, machine parts must be cleaned.

KURTEL NC 33 Liquid Flux usage recommendations are given below. The highest performance can be achibed if these recommendations are followed.

The air to be used must not be moist. Moist air will disrupt the flux structure, the solvent will not evaporate in preheating and will cause short circuits. Flux stone should be at most 20 mm deep from the surface. Suitable mouth opening for foaming is 10 mm. An air curtain or brush should be used to spread the flux remaining on the PCB. Air pressure should be 4-7 psi.

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Application Parameters	Lead-Free Solder SAC305, SAC 0307, SAC X, SN100C, Sn99,3Cu0,7	Leaded Solder Sn63Pb37
Solder Pot Temperature (˚C)	255 ˚C – 265 ˚C	250 ˚C – 255 ˚C
Conveyor Speed (m / min)	0,9 m/min – 1,8 m/min	
Contact Time (second)	1,5 second – 3,5 second	
PCB Surface Temperature (˚C)	95 ˚C – 110 ˚C	85 ˚C - 105 ˚C

The above data is for informational purposes only. The machine used may vary depending on the equipment quality.

Technical Specifications

Specification	Result
Color	Colorless
Smell	Alcohol
Solid Content (wt/wt)	%3
Halide Content	Zero
Asid Value (mg KOH/g)	24 mg KOH/g (± 0,5)
Spesific gravity (25 ˚C)	0,810 g/cm³ (± 0,005)
Flash Point (25 ˚C)	14 ˚C
Recommended Thinner	KT 70
IPC-TM-650 2.3.32 Copper Mirror Test	Passed
J-STD-004 Classification	ORM0
EN-19454 Classification	2.2.3
J-STD-004 SIR Test	Passed
BellCore GR-78-CORE Electromigration Test	Passed
Shelf Life (from the date of manufacture)	12 Months
Packing (liter / piece)	5 L , 25 L

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Health & Safety

Please read the Material Safety Data Sheet before using KURTEL NC 33 Liquid Flux.

Inhalation of solvent vapors in Flux can cause headaches, nausea, and dizziness. Also, constantly breathing can irritate the nose and throat. Exhaust ventilation must be used to prevent the operator from being exposed to solvent vapor.

May irritate the skin in contact with prolonged skin. Irritating in contact with eyes. Suitable personal protective equipment should be used.

Eating, drinking, and smoking should not be allowed in the study area. Hands must be washed thoroughly with soap.

First Aid: In case of contact with skin, wash thoroughly with soap and warm water. In case of contact with eyes, wash with plenty of water and consult a doctor.

Fire Hazards and Precautions: Flux is highly flammable. It should not be used near electrical equipment that may be exposed to flames and heat. No smoking. In case of fire, carbon dioxide can be extinguished with alcohol-resistant foam or dry chemical powder.

Disposal: Wastes must be stored in closed containers for disposal in accordance with local national regulations.