

TOPKLEAN™ EL-10F



Manual Stencil & PCB Cleaner

FEATURES

TOPKLEAN™ EL-10F is a manual cleaning solvent for misprinted PCBs and stencils.

TOPKLEAN™ EL-10F is a halogen-free, low odor solvent to efficiently clean:

- Misprinted boards – pastes and adhesives
- Paste and flux residues
- Stencils – pastes or adhesives.

Compatible with standard components used in electronic assembly.

SPECIFICATIONS

Flash Point (PMCC)	38°C	ASTMD D93
Density at 20°C	834 kg/m ³	ASTMD 4052

CHARACTERISTICS

Properties	Unit	Value	Test method
Vapour pressure at 20°C	hPa(mbar)	2,8	no standard method
Viscosity at 25°C	mm ² /s	1.2	ASTM D 445
Water content	% wt	max. 0.1	ASTM E1364
Aromatics	% wt	max 0.01	SMS 2728
Non volatile residue	g/100 ml	max. 0.01	ASTM D1353
Boiling range	°C	150-170	no standard method
Relative evaporation rate	nBuAc=1	0.15	ASTM D3539
Kauri Butanol value		> 300	
Solubility in water		partially soluble	

ASTM methods are published by the American Society for Testing and Materials, 1916 Race street, Philadelphia, Pa 19103, USA, and are available in Europe from ASTM European office, 27-29 Knowl Piece, Wilbury Way, Hitchin, Herts, SG4 OSX, UK.

DIN methods are published by Beuth Verlag GmbH., Burggrafenstrasse 4-7, D1000, Berlin, Germany.

PACKAGING

Drum	20 l or 200 l
Spray can	500 ml

STORAGE & SHELF LIFE

Store in the original container, in a cool, ventilated, fire-resistant building.

Storage life 18 months.

PROCESS PARAMETERS

TOPKLEAN™ EL-10F is used undiluted and may be easily rinsed with NOVEC™ HFE to quicken the drying time. **TOPKLEAN™ EL-10F** has a high flash point for increased safety as it efficiently replaces isopropyl alcohol for manual cold cleaning. It quickly dissolves solder pastes and flux residues after reflow. It also removes non-reflowed solder paste as well as uncured glue.

HSE

Properties	Unit	Value	Test method
Hazard Class	-	All	VbF Germany
Lower explosion limit in air (20°C)	% v/v	1	DIN 51649
Upper explosion limit in air (150°C)	% v/v	15	DIN 51649
Auto Ignition Temperature	Celsius	250	DIN 51794

TOPKLEAN™ EL-10F is slightly irritating on skin and eyes. Avoid contact with the product. To be handled in a well ventilated area.

TOPKLEAN™ EL-10F is a flammable product and classified as a solvent Class All.

TOPKLEAN™ EL-10F has a low environmental impact, and generates very low emissions at operating temperatures. It does not harm the ozone layer and is biodegradable.

TOPKLEAN EL-10F can be collected and recovered or disposed easily as waste oil by outside contractors.

Please closely refer to the Material Safety Data Sheet before use.

No issues when used as recommended.

Although the conformity to ROHS 2002/95CE applies EQUIPMENT put on the market and not a component in particular, we warranty that this product contains less than 0.1% of mercury, lead, chromium VI, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and less than 0.01% for the cadmium, in accordance with the decision of The European Commission dated 18/08/2005, fixing the maximal concentration values.

This data is based on information that the manufacturer believe to be reliable and offered in good faith. In no event will INVENTEC be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.

FPW.SV.10259 003 - 23/12/2010