



CLEANING

TOPKLEAN™ EL 60

REMOVAL OF FLUX RESIDUES
SOLVENT IMMERSION PROCESS
RELATIVE HIGH FLASH-POINT

BENEFITS

TOPKLEAN EL 60 is a non-flammable, hydrocarbon-based cleaning fluid designed for the removal of solder flux residues after reflow. It is also effective for cleaning uncured adhesives, non-reflowed solder paste from stencils, and misprinted PCBs. In some cases, it can also remove certain polymerized coatings, depending on their chemical composition.

It is specially designed to use as a cold cleaner in a simple immersion tank and to offer a safe alternative for highly flammable products like IPA. For difficult to remove contaminants, the product can be heated to a maximum of 54 °C/129°F.

TOPKLEAN EL 60 is compatible with all metals and alloys, including very sensitive ones. It has also good compatibility with most plastics & elastomers, however it is necessary to test before use.

PERFORMANCE	▪ Excellent solubility organic & mineral residues ▪ High solvency power ▪ Excellent compatibility with materials used on PCB's
COST	▪ No heating of the cleaning fluid required ▪ Low investment on equipment ▪ No water consumption & no need for wastewater treatment
HSE	▪ Non-toxic & no CMR substances ▪ No Ozon Depletion Potential (ODP) ▪ No Global Warming Potential (GWP) ▪ Relative high flash point - safe to use, storage & transport ▪ Low environmental impact: GREENWAY product

SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Transparent, slightly yellow	Visual
Density (g/ml @20°C)	0.910 ± 0.010	BRY MO 028

CHARACTERISTICS

SPECIFICATIONS	VALUES	METHODS
Boiling point	175-195°C/347-383°F	ASTM D1078
Flash Point	64°C/147°F	ASTM D93
Miscibility in water	partially	Internal
Presence of aromatic compounds (% weight)	<0,01	SMS 2728
NVR (g/100 mL)	<0,01	ASTM D1353
Water content (% weight)	<0,1	ASTM E1364
Vapor pressure at 20°C hPa	0,7	No standard method

PROCESS RECOMMENDATION

The best process will depend on factors such as operating conditions, equipment, desired cleaning time and the nature of contaminants. Our team is ready to advise you.

- Compatibility report with different materials is available on request.

PROCESS EXAMPLE

Removal of uncured glue from stencils



PACKAGING, STORAGE & SHELF LIFE

- Keep products in closed original packaging and store at room temperature.
- Shelf life is minimum 5 years from production date when kept in recommended conditions.

AVAILABLE PACKAGING



200L DRUM

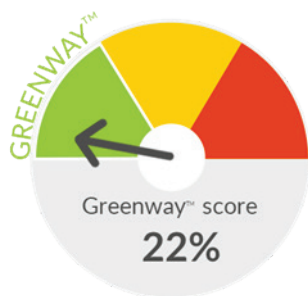


20L PAIL

Please verify the packaging details, including volume and availability, with your sales representative, as they may vary depending on the production facility where the product is manufactured.

HEALTH, SAFETY & ENVIRONMENT

TOPLEAN EL 60 is a **GREENWAY** product. More info on our Greenway concept via this [link](#).



MAIN CONTRIBUTORS WHICH REDUCE IMPACT:

HUMAN HEALTH & SAFETY

- Non-flammable & high flashpoint
- Non-toxic, no corrosive impact & no S risk phrases
- Does not contain halogenated compounds

ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- No environmental hazard (H) labeling
- No GWP

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC 850/2004) / Contains no Import/Export Hazardous substances (EU 649/ 2012).

In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this product does not contains quantities above 0.1% of Hg, Pb, Cr VI, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd.

Please refer always to the Safety Data Sheet (SDS or MSDS) prior to use. Our SDS can be downloaded at www.quickfds.com. We will request to provide your email address, so we can automatically send you a new version of the SDS when a future update would occur.

TECHNICAL SUPPORT & FREE-OF-CHARGE TESTING

Inventec has a worldwide dedicated Technical Support team to help you along the various stages of our cooperation.

Depending on your request, we provide online or onsite support

- to select the right product based on your specific needs.
- to assist you in your product qualification process.
- to guide you with the initial set up of your process at all your worldwide manufacturing facilities.
- to provide fast response on technical issues which could occur at any time during mass production.

Customers are also welcome in our CLEANING CENTERS to see the process in action and to get convinced by our solutions. We cover water- and solvent based processes.

Inventec is unique in the world by developing not only cleaning materials but also soldering and coating solutions. These materials are very closely linked with each other from a process point of view. Talking to our Technical Team, who understands very well these 3 different product groups, will help you greatly to overcome technical challenges within your overall process.

Contact our technical support via contact@inventec.dehon.com or your local sales representative.

ABOUT INVENTEC

Inventec is a global provider of SOLDERING, CLEANING, COATING, COOLING materials for Electronic, Semiconductor and Industrial applications. For over 60 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain.

We supply to many industries but the excellent performance of our products in applications which demand high reliability, leads us to focus especially on the AUTOMOTIVE, AEROSPACE, SEMICONDUCTOR, ENERGY and MEDICAL industry.

www.inventec.dehon.com



SOLDERING
CLEANING
COATING
COOLING

This data is based on information that the manufacturer believes to be reliable and offered in good faith. In no event will INVENTEC PERFORMANCE CHEMICALS 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.

Inventec Performance Chemicals – 26 rue de Coulons. 94360 Bry-sur-Marne, France
Limited company with capital of 600 000€ - 964 500 706 RCS Créteil