

Manual Processes

PERFORMANCES

Used as cold degreasers, these products are specially formulated to degrease a wide range of materials by manual application or by dipping at room temperature. They are colourless, with a very low viscosity and a slight odor.

It consists of mixtures of aliphatic hydrocarbons, oxygenated polar compounds and a rust inhibitor for some of them. These products are designed to replace efficiently 1,1,1-trichlorethane, methylene chloride, etc. other existing solvents having an ODP, or high risk of flammability like Isopropyl Alcohol.

Their very low surface tension and its fast evaporation provide remarkable cleaning qualities. Drying can be improved with clean compressed air, warm air or by using Inventec's fast evaporation products, Novec™ or Promosolv™.

All components inside formulation are compliant with new regulations concerning chemical substances (REACH*, RoHS*, FGas*, not CMR*...) and are implemented by INVENTEC and our recommended list of cleaning plant manufacturers.

DEGREASING

The table below outlines a range of more or less evaporable degreasing products according to their flash point. A compromise has to be found in order to select the best solution.

	FLASH POINT	EVAPORATION TIME
QUICKSOLV DEF90	None	< 30sec
QUICKSOLV 2	None	< 10min
TOPKLEAN MC1107	A3	< 20 min
Quicksolv 29	A2	< 5 min

*REACH a new normative document to be implemented in next years concerning chemicals substances for Registration Evaluation and Authorisation of Chemicals.

*RoHS European Directive from 2006 concerning the Restriction of Hazardous Substances.

*FGas European Directive from 2006 concerning in prevent and thereby reduce emissions of fluorinated greenhouse gases covered by Kyoto protocol.

*CMR Carcinogenic, Mutagenic Reprotoxic substances.





STRIPPING, INK & RESINE REMOVAL

It is recommended:

- To check the materials compatibility
- To stripe as soon as possible parts before the end of polymerisation
- To assess technical performances by making tests

	FLASH POINT	% of VOC raw material	EVAPORATION TIME
PROMOCLEAN TP183 *	A3	0%	N/A
PROMOCLEAN TP184 *	A3	90%	< 30 min
PROMOCLEAN TP186B *	A3	93%	< 30 min
PROMOCLEAN TP188 *	A3	99%	< 30 min
PROMOCLEAN TP182 *	A3	-	< 30 min
QUICKSOLV 30	A2	100%	< 10 min
QUICKSOLV DEF90	Néant	100%	< 30sec

* the range of oxygenated solvents provides the possibility to select the most efficient product taking into account the type of contamination (PU resin, paints, inks, varnish etc.)

According to the European directive 1999/43/CE, COV product is an organical composite, whose vapour pressure at 20°C is higher than à 0,01 Kpa. In these formulated products, the VOC content corresponds to the percentage in mass of VOC in comparison to the product global weight.

In utilization, the VOC content may be empirically evaluated through the evaporation speed. The more a solvent evaporates, the more the VOC emissions will be important.

MATERIAL COMPATIBILITY

Compatibility boards available, contact us.