

Solder Flux Removal and PCB Cleaning Solvent

Product Highlights

- Developed for the cleaning of solder paste residues and all types of solder fluxes.
- The use of HMT-175CS as a co-solvent with HMT-55CS HFE highly increases its cleaning and drying performance.
- Cleans misprinted solder pastes on PCBs.
- High wetting performance allows it to efficiently remove solder flux residues and contaminants on miniaturized designs and high-density PCBs.

SPECIFICATIONS AND CHARACTERISTICS

Characteristic/Property	Unit	Value	Test Method
Flash Point (PMCC)	°C	77	ASTM D 93
Density at 20°C	Kg/m ³	825	ASTM D 4052
Aspect		Colorless Liquid	Visual
Boiling Range	°C	212-215	ASTM D 1078
Water Content	% (weight)	< 0.1	ASTM E 1364
Aromatic Compounds	% (weight)	< 0.1	SMS 2728
NVR	g/100 ml	< 0.01	ASTM D 1353

PROCESS PARAMETERS

HMT-175CS has been designed as a non-flammable solvent for use in vapor phase equipment for defluxing of solder flux residues after die attach, flip chip or SMT reflow.

Application guideline and recommendations for a MIXED CO SOLVENT PROCESS

Step 1: CLEANING	HMT-175CS (70%) and HMT-55CS HFE (30%) at 65°-70°C
Step 2: RINSING	HMT-55CS HFE at 45°-50°C
Step 3: DRYING	HMT-55CS HFE at 55°C (Vapor Phase)

Application guideline and recommendations for a SEPARATED CO SOLVENT PROCESS

Step 1: CLEANING	HMT-175CS (pure) 55°C
Step 2: RINSING	HMT-55CS HFE at 55°C
Step 3: RINSING	HMT-55CS HFE at 45-50°C
Step 4: DRYING	HMT-55CS HFE at 55°C (Vapor Phase)

PCBA defluxing is recommended prior to the application of Conformal Coatings. Boards are completely dried after co-solvent process with no additional needs for baking or curing. Cleaning performance complies with: IPC-A-610E Visual Cleanliness / J-STD-001 Ionic Cleanliness / Surface Insulation Resistance by IPC-TM 650 2.6.3.7 and DIN 32513

STORAGE AND SHELF LIFE

Product should be stored in original sealed containers below 50°C. Shelf life under stated conditions is 18 months.

PACKAGING

Container Sizes	10ml (0.34oz) Pen, 0.5 Gallon Jug, 1 Gallon Jug, 5 Gallon Jug, 55 Gallon Drum
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HEALTH AND SAFETY

HMT-175CS is not considered a flammable product, however it can burn. All relevant measures against fire risk should be implemented.

HMT-175CS has a low environmental impact, emissions are very low at operating temperatures.

Please refer to the Safety Data Sheet (SDS) before use. Safety data sheets can be found at www.hmtsolder.com

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