



FluoSolv[®]

Electronic Degreaser

3M Novec Electronic Degreaser Replacement Fluid

Technical Information

Electronic Degreaser

Introduction

FluoSolv[®] Electronic Degreaser is a non-flammable, precision cleaning solvent blend engineered for safe and effective removal of oils, greases, flux residues, and other contaminants from sensitive electronic components. Developed as a direct replacement for 3M[™] Novec[™] Electronic Degreaser, it offers the same high performance, fast-drying characteristics, and compatibility with delicate substrates, while delivering an improved environmental and regulatory profile.

Key Features & Benefits

- Non-flammable formulation – enhanced worker and facility safety
- Excellent solvency power – rapid removal of hydrocarbon and silicone-based soils
- Fast-drying – reduces downtime and improves process efficiency
- Non-ozone depleting – environmentally responsible solution
- Low surface tension – penetrates tight spaces and under components
- Broad material compatibility – safe for most plastics, metals, and elastomers
- Low residue – ensures clean surfaces without deposits

Applications

FluoSolv[®] Electronic Degreaser is suited for:

- Cleaning of printed circuit boards (PCBs)
- Degreasing of electromechanical assemblies
- Removal of flux and light oils from precision instruments
- Cleaning in aerospace, medical device, and electronics manufacturing

Material Compatibility

FluoSolv[®] Electronic Degreaser is broadly compatible with most metals and engineering plastics. It demonstrates excellent compatibility with:

- **Metals:** Stainless Steel, Aluminum, Copper, brass
- **Plastics:** Nylon, HDPE, CDPE, C.E. Phenolic, POM, PP, PS, PTFE, and PVC. Not compatible with ABS, Polycarbonate, PMMA, or PS
- **Elastomers:** Low-plasticizer EPDM and certain silicone grades. Soft, highly plasticized elastomers may swell or soften; pre-testing is recommended for critical seals and gaskets.

Caution: As with all precision cleaners, testing on sensitive substrates (e.g., acrylics, polystyrene, natural rubber) is recommended prior to use.

Physical Properties

Property	NuGenTec FluoSolv® Electronic Degreaser	HCFC 141b	HCFC-225
Boiling Point °C	43	32	54
Liquid Density (g/mL)	1.28	1.23	1.55
Surface Tension (dynes/cm)	19	19.3	16.2
Solubility of Solvent in Water (ppmw)	??	210	330
Vapor Pressure at 25°C (mmHg)	330	569	290
Global Warming Potential (GWP)	90	700	180/160
Ozone Depleting Chemical	0	0.10	0.03
Volatile Organic Compounds (VOC)	70-80%	Exempt	-
Flash point	None	None	None

Free Solvent Sample and Vapor Degreaser for Testing

NuGenTec offers a small loaner vapor degreaser and a loaner 5-gallon pail to assist with your testing. The loaner vapor degreaser plugs into a standard wall outlet and fits on a standard pallet. This allows you to test our FluoSolv® solvent in your own controlled environment without immediately changing the solvent in your current equipment.

FluoSolv® Electronic Degreaser is available for purchase in three package sizes:

- 55-gal phenolic lined metal drums
- 5-gal phenolic lined pails
- 1-gal HDPE plastic bottles

For further information about FluoSolv® Electronic Degreaser for testing or purchasing please contact:

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