



FluoSolv® 72FL

3M Novec 72FL Replacement Fluid

Technical Information

Azeotropic Vapor-Degreasing Solvent

Introduction

FluoSolv® 72FL is a safe, nonflammable solvent blend specifically formulated for cold cleaning of aircraft surfaces, controls, connectors, relays, circuit breakers, and electromechanical components. It effectively removes light oils, greases, silicones, fluorolubes, dust, and particulates. Designed to leave no residues or require rinsing, it delivers excellent plastic compatibility, fast drying, low odor, and a low environmental impact.

Applications

FluoSolv® 72FL is ideal for cold cleaning (flush, wipe, and spray) of aircraft surfaces, including flaps, controls, connectors, and electromechanical devices. Also excellent for removing seals-compromising hydraulic fluids without affecting corrosion-inhibiting coatings. Not intended for vapor degreasing due to its non-azeotropic formulation.

Key Features & Benefits

- Fast drying, low odor
- Nonflammable, non-corrosive, and non-conductive
- Excellent compatibility with a broad range of plastics
- Low toxicity, 80% U.S. EPA VOC-exempt; compliant with NESHAP Option 2 for aerospace applications
- Leaves no residues—no need for rinsing
- Low Global Warming Potential (GWP ~71), zero Ozone Depletion Potential (ODP = 0)

Material Compatibility

- FluoSolv® 72FL exhibits excellent compatibility with a wide range of materials:
- Plastics: ABS, PMMA (acrylic), nylon, POM, polycarbonate/Lexan, PP, HDPE, PS, CDPE, PTFE, phenolic resins, PVC—"excellent" compatibility reported.
- Test results also show compliance for corrosion tests (F1110 Sandwich, F485 Residue, F945 Stress Corrosion, F502 Paint Softening, F519 Hydrogen Embrittlement) comparable to CFC-113, validating its safe use on diverse aerospace materials.

Physical Properties

Property	NuGenTec FluoSolv® 72FL	HCFC 141b	HCFC-225
Boiling Point °C	45	32	54
Liquid Density (g/mL)	1.40	1.23	1.55
Surface Tension (dynes/cm)	~16	19.3	16.2
Solubility of Solvent in Water (ppmw)	Negligible	210	330
Vapor Pressure at 25°C (mmHg)	~330	569	290
Global Warming Potential (GWP)	71	700	180/160
Ozone Depleting Chemical	0	0.10	0.03
Volatile Organic Compounds (VOC)	80% Exempt	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® 72FL 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® 72FL for testing or purchasing please contact:
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