



FluoSolv® 7200DL

3M Novec 7200DL Replacement Fluid

Technical Information

Azeotropic Vapor-Degreasing Solvent

Introduction

FluoSolv® 7200DL is a high-purity hydrofluoroether (HFE) clear, colorless fluid, developed to directly replace 3M™ Novec™ 7200DL. It is manufactured with tightly controlled impurity levels—ions, metals, particulates, and non-volatile residue—to meet stringent requirements in electronics manufacturing, particularly for lubricant deposition on hard disk drives and precision cleaning of head gimbal assemblies. The fluid is non-flammable, non-conductive, VOC-exempt (U.S.), zero-ODP, thermally stable, and exhibits low toxicity.

Key Features & Benefits

Ultra-high purity: ≥99% ethoxy-nonafluorobutane, ≤1 ppm non-volatile residue (NVR), with strict control over ions, metals, and particulates

High performance solvent: low surface tension (~13.6 dynes/cm) ensures excellent wetting and penetration in microfeatures

Safe & environmentally sound: non-flammable, VOC-exempt, zero ozone depletion, low GWP (~55), and very short atmospheric lifetime (~0.77 years)

Low toxicity: “practically non-toxic”; recommended 8-hour exposure guideline of 200 ppm

Broad compatibility: compatible with most metals, plastics, and elastomers used in electronics manufacturing

Applications

FluoSolv® 7200DL is ideally suited for:

- Lubricant and additive deposition onto hard disk media
- Precision cleaning in head gimbal assembly
- Applications requiring ultra-high purity solvents in electronics and medical industries

Material Compatibility

FluoSolv® 7200DL is compatible with a broad range of materials:

- **Metals:** Aluminum, Copper, carbon steel, stainless steel, brass, Molybdenum, Tantalum, Tungsten, Cu-Be alloy, Mg alloy AZ32B
- **Plastics:** PMMA (acrylic), polyethylene, polypropylene, polycarbonate, epoxy, PET, ABS, polyester
- **Elastomers:** butyl rubber (best for long-term use), natural rubber, EPDM, EPR; note PTFE and silicone rubber may swell over extended exposure

Physical Properties

Property	NuGenTec FluoSolv® 7200DL	HCFC 141b	HCFC-225
Boiling Point °C	76	32	54
Liquid Density (g/mL)	1.42	1.23	1.55
Surface Tension (dynes/cm)	13.6	19.3	16.2
Solubility of Solvent in Water (ppmw)	<20	210	330
Vapor Pressure at 25°C (mmHg)	118	569	290
Global Warming Potential (GWP)	55	700	180/160
Ozone Depleting Chemical	0	0.10	0.03
Volatile Organic Compounds (VOC)	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® 7200DL 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® 7200DL for testing or purchasing please contact:

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