



FluoSolv[®] 7100

Technical Information

Azeotropic Vapor-degreasing Solvent

Introduction

FluoSolv[®] 7100 is a methoxy-nonafluorobutane, is a clear, colorless and low-odor fluid intended to replace ozone-depleting substances (ODSs) and compounds with high global warming potential (GWP) in many applications. Its physical properties are compared with several other ODS replacement fluid candidates.

This proprietary fluid has zero ozone depletion potential and other favorable environmental properties (see Table 2). It has one of the best toxicological profiles of CFC replacement materials, with a time-weighted average exposure guideline of 750 ppm (eight hour average).

The high boiling point and low surface tension of FluoSolv 7100 fluid make it ideal for use in vapor degreasing applications as a neat (pure), azeotropic component or co-solvent parts cleaner.

Applications

NuGenTec FluoSolv[®] 7100 is recommended to clean and rinse heavy-duty jobs.

- Light-duty cleaning (neat)— particulates, fluorolubes, light oils, fluoropolymers.
- Lubricant carrier Fluorocarbons Hydrocarbons Silicones.
- Spot-free water drying agent (with surfactants added).
- Specialty solvents, dispersion media, reaction media.
- Spray contact cleaner
- CFC, HCFC, HFC and PFC replacement
- Dielectric test media
- Heat transfer

Material Compatibility

FluoSolv[®] 7100 is compatible with all metals, ceramic and other non-conducting materials. Most elastomeric materials are compatible except fluoroelastomers such as Viton & Kalrez which tend to swell. It is recommended that all materials be tested prior to use.

Compatible

Metals	Aluminum, Copper, S/S Titanium, BCASs, Tungsten
Elastomers	Neoprene, Butyl Rubber, EPDM, Kynar (PVDF)
Plastics	HDPE, PTFE, Nylon, PVC Epoxy, Phenolic

Additional testing required for plastics such as ABS, Acrylic, Polycarbonate and fluoroelastomers (Viton A & B & others)

Physical Properties

Property	NuGenTec FluoSolv® 7100	HCFC 141b	HCFC-225
Boiling Point °C	61	32	54
Liquid Density (g/ml)]	1.52	1.23	1.55
Surface Tension (dynes/cm)	13.6	19.3	16.2
Solubility of Solvent in Water (ppmw)	12	210	330
Vapor Pressure at 25°C (mmHg)	202	569	290
Global Warming Potential	320	700	180/160
Ozone Depleting Chemical	0	0.10	0.03
Volatile Organic Compounds (VOC)	Exempt	Exempt	-
Flash point	None	None	None

Storage, Packaging & Availability

FluoSolv® 7100 is thermally & chemically a very stable solvent. It is non-reactive, has low water solubility and will not oxidize or degrade when exposed to air or sunlight. Common industrial practice should be implemented for storage; keep away from human food source and extreme temperature conditions. Freezing temperatures will cause the drums to compress and hot conditions will balloon the drum. The product in any case is perfectly usable.

FluoSolv® 7100 is available 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® 7100 and purchasing please contact:

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