



FluoSolv[®] 7300

Technical Information

Azeotropic Vapor-degreasing Solvent

Introduction

FluoSolv[®] 7300 fluid, a segregated hydrofluoroether, is non-flammable, thermally stable, non-ozone depleting, and has a very low global warming potential. FluoSolv 7300 fluid does not contribute to the formation of photochemical smog. An exemption from the U.S. EPA definition of a VOC has been requested. The product is recommended for use as a replacement for perfluoropolyethers, perfluorocarbons, hydrochlorofluorocarbons, and hydrofluorocarbons. On this basis, FluoSolv 7300 fluid provides a useful tool to help meet commitments for greenhouse gas emission reduction.

The boiling point, wide liquid range and low-temperature viscosity of Novec 7300 fluid make it ideal for cooling ion implanters, dry etchers, and CVD machines. Novec 7300 fluid is effective at mitigating the aggressiveness of solvents and is useful in inerting the flammability of blends. The chemical and thermal stability of Novec 7300 fluid lend to its use as a reaction media.

Applications

FluoSolv 7300 fluid is ideal as a heat transfer fluid for the demanding requirements of semiconductor processing and electronics equipment. FluoSolv 7300 fluid is designed to balance performance with favorable environmental and worker safety properties. In heat transfer applications, FluoSolv 7300 fluid offers:

- Excellent dielectric properties
- Wide liquid range
- Good materials compatibility
- Low toxicity

Material Compatibility

FluoSolv[®] 7300 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® 7300
Boiling Point (°C) @ 760 mmHg	98
Liquid Density (g/ml)	1.67
Surface Tension (dynes/cm)	15
Solubility of Solvent in Water (ppb)	586
Vapor Pressure at (mmHg)	44.9
Global Warming Potential	200
Ozone Depleting Chemical	0
Volatile Organic Compounds (VOC)	Not/Applicable
Flash point	None

Storage, Packaging & Availability

FluoSolv® 7300 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® 7300 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® 7300 and purchasing please contact:

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