



FluoSolv[®] 71DE

Technical Information

Azeotropic Vapor-degreasing Solvent

Introduction

FluoSolv[®] 71DE is an azeotropic blend of a hydrofluoroether, Methyl Nonafluorobutyl Ether, in an azeotrope formulation with trans-1,2-dichloroethylene (t-DCE) and ethanol. By definition, this mixture is consistent at its boiling point.

FluoSolv[®] 71DE has been created for degreasing and defluxing with added benefits of replacing many environmentally harmful blends that have high global warming potentials. This blend has zero ozone depleting potential.

The US Environmental Protection Agency has labeled all components as without restrictions.

Applications

NuGenTec FluoSolv[®] 71DE is recommended in arenas tending to cleaning, rinsing, drying, and coating. Further:

- Cleaning of oils, greases, waxes, handling oils, and solder flux residue.
- Precision coating of silicones and other lubricants.

Material Compatibility

FluoSolv[®] 71DE 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® 71DE	AK-225	Freon® TE
Boiling Point °C [°F]	42	52	45
Density at 25°C (77°F) kg/liter [lb/gal]	1.39	1.49	1.5
Surface Tension at 25°C (77°F) dyne/cm	16.4	16.8	17.7
Viscosity at 25°C (77°F), cPs	0.45	0.61	0.65
Vapor Pressure at 25°C (77°F) kPa	381	414	362
Global Warming Potential	170	400	5800
Ozone Depleting Chemical	0	0.03	0.77
Volatile Organic Compounds (VOC)	Yes	Exempt	-
KB Value	33	41	40

Storage, Packaging & Availability

FluoSolv® 71DE 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® 71DE is available in three package sizes

- 55-gal phenolic lined metal drums (net wt. 550)
- 5-gal phenolic lined pails (net wt. 52.5 lb.)
- 1-gal HDPE plastic bottles (net wt. 11 lb.)

For further information about FluoSolv® 71DE and purchasing please contact:

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