



FluoSolv™ D-Flux

Technical Information

Defluxing & Vapor Degreasing Fluid

Introduction

FluoSolv™ D-Flux is an azeotropic blend of a proprietary fluorinated fluid mixture, trans-dichloroethylene, cyclopentane and methanol. It is very effective as a defluxing solvent for many commonly used fluxes including no-clean fluxes.

FluoSolv™ D-Flux is a drop-in replacement for n-propyl bromide, Honeywell Solstice and similar defluxing solvents.

FluoSolv™ D-Flux offers an optimal combination of chemical solvency and physical properties such as high density, low surface tension and low viscosity for optimal performance.

User Benefits

NuGenTec FluoSolv™ D-Flux is ideally balanced to deliver performance, worker safety and desirable environmental properties.

- Non-ozone depleting chemical (ODC)
- Drop-in replacement for n-propyl bromide based defluxing solvent
- Low global warming potential (GWP)
- Low toxicity; high allowable exposure limit (AEL);
- Non-Flammable; Non-Hazardous
- Chemically stable; will not go acid

Material Compatibility

FluoSolv™ D-Flux 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. Plastics such as acrylic & ABS are not compatible. It is recommended that all materials be tested prior to use.

Physical Properties

Property	NuGenTec FluoSolv™ D-Flux	Asahi AK-225	DuPont Vertrel® MCA	Honeywell Solstice®	nPB
Boiling Point °C [°F]	37[99]	54 [129]	39 [102]	19 [66]	71[160]
Density at 25°C (77°F) kg/liter [lb/gal]	1.35 [11.3]	1.55 [12.9]	1.41 [11.7]	1.27 [10.6]	1.35 [11.26]
Surface Tension at 25°C (77°F) dyne/cm	16.5	16.2	21.2	12.7	25.9
Viscosity at 25°C (77°F), cPs	0.49	0.59	0.59	0.53	0.49
Vapor Pressure at 25°C (77°F) kPa	64	38.5	62	152	20.3
Ozone Depleting Chemical	No	Yes	No	No	No
Volatile Organic Compounds (VOC) g/l	528	0	536	0	1,350
Allowable Exposure Limit (AEL) ppm	200	100	200	800	<10
Worker Exposure Ceiling (ppm)	none	No	400 ^a	No	10
KB Value	60	31	50	25	125

Storage & Recycling

FluoSolv™ D-Flux 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. It is not affected by any sunlight or other sources of UV radiation.

FluoSolv™ D-Flux is a stable azeotropic blend easy to reclaim and reuse by simple distillation process. Commercially available modular recycling units can easily be added to realize sizable savings in solvent usage. Solvent recovery yields are typically in the range of 60 to 80%. Contact us for more information

Availability - Bulk & Aerosol

FluoSolv™ D-Flux is available in three package sizes for bulk usage as a liquid in vapor-degreaser:

- 55-gal lined metal drums (net wt. 500)
- 5-gal lined pails (net wt. 50 lb.)
- 1 gal amber glass bottles (net wt. 10 lb.)

Note: Drum & Pail have phenolic liner

FluoSolv™ D-Flux Aerosol is packaged in 12 oz (341 gm net) cans and sold in units of 12 cans/case.

Contact info:

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a: Has a ceiling of 400 ppm due to its acute toxicity. None of the above solvents have any stipulated ceiling on AEL

