

Frank's Funky Formula

Precision Vapor-Degreasing Solvent

Technical Data Sheet

Introducing F3!

LssChem F3 is an azeotropic fast drying engineered blend of non-flammable hydrofluoroethers (HFEs) and trans-1,2-dichloroethylene (t-DCE) designed to be used in commercial vapor-degreasing equipment made by Baron Blakeslee, Branson, Crest, Ultronix, Ultracool, and similar machines.

LssChem F3 has a high density and along with its low viscosity and low surface-tension provides a high wetting index making it an ideal solvent for cleaning complex geometric assemblies. It's compatible with most elastomers, composites, and non-metals.

Typical Applications:

- Precision Cleaning of pre-plating and pre-brazing assemblies
- Aerospace vapor-degreasing of stamped and machined metal parts
- Final cleaning of hermetically sealed composite assemblies in avionics
- Degreasing of ferrous and non-ferrous metal parts

Environmental & Safety Benefits

Low GWP (Atm. Life =0.8 yrs)

Non-ozone depleting (ODP=0)

Non-Flammable (Open Cup Flash Point =None)

Non-Hazardous, Non-toxic

Safe replacement for nPB & TCE

Physical Properties

	LssChem F3	Vertrel SDG	Novoc 73DE
Boiling Point (oC)	44	43	48
Density (g/ml)	1.27	1.29	1.28
Viscosity (cP)	0.49	0.59	0.38
Surface Tension (dyne/cm)	18.4	21.2	19.9
Vapor Pressure at 25 C (kPa)	48.3	51.7	35.8
Heat of Vaporization at Boiling Point (cal/gm)	63.1	67.1	54.2
Kb Value	100	95	95
Global Warming Potential (GWP/100yr ITH)	40	148	47

Performance Features:

- High Chemical Solvency for oil, grease, and silicone fluid
- Chemically stable and non-reactive
- Very low water solubility (will not go acid)
- Excellent for Precision Cleaning (Wetting Index =142)
- Compatible with most plastics (except acrylic, ABS), all elastomers, and metal-alloys and non-metals
- Easy recycling makes it economical

Packaging & Storage:

Store product indoors in a cool dry place away from direct sunlight. Package size available are:

- 55-gallon phenolic lined metal drums (net wt. 550 lb.)
- 5-gallon phenolic lined pails (net wt. 55 lb.)
- 1-gallon amber glass bottles (net wt. 11 lb.)

Product is stored and shipped from Cleveland, OH with 2-3 business day lead time