

Susan's Sensational Solution

Defluxing and Vapor-Degreasing Solvent

Technical Data Sheet

Introducing S3!

LssChem S3 is an azeotropic polar solvent blend of hydrofluoroethers (HFEs), isopropyl alcohol, and trans-1,2-dichloroethylene (t-DCE) ideally suited for defluxing application. It's a drop-in replacement for Vertrel® SFR and Novec® 71DA. Most commercial vapor-degreasing equipment i.e Baron Blakeslee, Branson, Crest, etc. can be used for electronics cleaning with LssChem S3

LssChem S3 has a high density and along with its low viscosity and low surface-tension provides a high wetting index. That combined with its high polarity make it an ideal solvent for cleaning electronics board It is compatible with most elastomers, and plastics making it suitable for final cleaning of populated electronic assemblies.

Typical Applications:

- Defluxing electronic circuit boards
- Final cleaning of hermetically sealed composite assemblies in avionics
- Particulate and precision cleaning of complex geometric 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	Novec 73DE
Boiling Point (oC)	44	41	40
Density (g/ml)	1.25	1.28	1.33
Viscosity (cP)	0.50	0.58	0.45
Surface Tension (dyne/cm)	18.4	16.2	16.4
Vapor Pressure at 25 C (kPa)	40.0	38.5	50.8
Heat of Vaporization at Boiling Point (cal/gm)	65.1	35	50.0
Kb Value	65	60	65
Global Warming Potential (GWP/100yr ITH)	40	148	170

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 Defluxing & Degreasing
- 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