

VERSATILL® HTF-56

DESCRIPTION

Versatill® HTF56 is a fluorinated solvent used for cleaning, drying, and as a carrier solvent. This Hydrofluoroether (HFE-347pc-f) is a nonflammable solvent that has excellent material compatibility, low surface tension, low Global Warming Potential, Zero ODP and VOC exempt.

APPLICATIONS

- Semiconductor Ion implanters Dry etchers CVD/PVD tools
- Electronic Automated Test Equipment (ATE)
- Electronic Cooling Supercomputers
- Sensitive electronics High voltage transformers
- Electronics Reliability testing, Temperature calibration
- Fuel cells
- Auto-cascade refrigeration
- Carrier solvent for fluorinated oils and greases
- Replacement for HCFC, Dupont™ Vertrel®, & 3M™ Novec™ solvents

ADVANTAGES

- Non-flammable
- Non-corrosive
- Low global warming potential (GWP)
- Zero ozone depletion potential (ODP)
- VOC exempt (USEPA)
- Low surface tension, low viscosity, high liquid density
- Excellent thermal, chemical, and hydrolytic stability
- Superior drying property
- Excellent permeability
- Recyclable

TECHNICAL DATA SHEET

PROPERTIES

Material Composition	
Components	Versatill® HTF56
1,1,2,2-tetrafluoroethyl-2,2,2-trifluoroethyl ether	100%

Physical Properties of Versatill® HTF56	
Boiling point	56°C (132F)
Melting Point	-94°C (-137F)
Density (g/cm ³ , 25°C)	1.47
Viscosity (cST, 25°C)	0.44
Surface Tension (dyne/cm/ 25°C)	16.4
Latent Heat of Vaporization (KJ/kg, 39°C)	163
Relative Evaporation Rate (Ether=100)	67
Flash Point (Open/Closed cup)	None
Vapor Pressure (kg/cm ² , 25°C)	0.32

COMPATIBILITY

Versatill® HTF56 has a broad range of compatibilities

Effect of Versatill® HTF56 on Unstressed Plastics and Elastomers at Boiling Point.

At boiling point for 3 days	Weight Change (%)	Linear Change (%)
Polypropylene	<2.5	<1.0
Polystyrene	<0.1	<0.1
ABS	<0.1	<0.1
PTFE	<2.5	<0.1
Fluoro-elastomer	>86	>24
Silicon Rubber	<12.5	<2.5
EPDM	<0.1	<0.1

TECHNICAL DATA SHEET

SAFETY, ENVIRONMENTAL AND HEALTH

Environmental Properties

Properties	Versatill® HTF56
Ozone Depletion Potential (ODP) ¹	None
Global Warming Potential (GWP) ²	540
Volatile Organic Compound (VOC)	Exempt
Flash point	None

¹ CFC-11= 1.0

² CO2 =1.0, 100yr ITH

Please refer to the current product Safety Data Sheet and the precautionary statement on the product package prior to use. Follow all applicable precautions and directions.

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