

CERTONAL HFE7300 Cleaning Agent, Carrier Fluid and Particle Dispenser

Introduction

Certonal HFE7300 Engineered Fluid is a clear, colorless and odorless hydrofluoroether (HFE) fluid designed for various applications, including lubricant deposition, electronic testing and precision cleaning. Its unique properties make it a versatile solution for industries requiring high performance, environmental compliance and safety.

Applications

Electronic precision cleaning
Lubricant deposition on hard disk drive media
Thermal management to support optimal operating temperatures during high semi-conductor manufacturing,

Benefits

Non-flammable for improved workplace safety
Reduces flammability I blends, offering safer handling and operational safety
Very low global warming potential (GWP), contributing to climate protection
Non-ozone depleting, ensuring minimal environmental impact
Fast drying for improved process efficiency
Low surface tension, viscosity and high liquid density enable excellent wetting, permeability and penetration for enhanced cleaning and coating effectiveness
Compatible with ultrasonic cleaning systems for precision cleaning applications
Non-corrosive, ensuring compatibility with a wide range of material
Superior thermal performance for efficient cooling and thermal management
Provides reliable chemical and thermal stability

Table 1 Physical Properties

Appearance	Clear, colorless
Molecular Weight	350
Boiling Point (°C) @ 760 mmHg	98.0
Freeze Point (°C)	-38
Liquid Density (g/ml)	1.66
Surface Tension (dynes/cm)	15
Solubility of Solvent in Water (ppmw)	586
Solubility of Water in Solvent (ppmw)	67
Vapor Pressure (mmHg)	44.9
Viscosity (cSt)	0.71
Viscosity @ -35°C (cSt)	3.51
Heat of Vaporization (cal/g @ boiling point)	24.3

Materials Compatibility

Certonal HFE7300 Engineered Fluid is compatible with most metals and hard polymers such as:

Short -Term Exposure Compatibility		
Metals	Plastics	Elastomers
Stainless Steel	Polycarbonate	EPDM
Nickel	PMMA	Natural Rubber
Copper	ABS	Polyurethane
Aluminium	Polypropylene	

Monel	Polypropylene	
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Elastomeric materials should be limited to those compounds that contain the least amount of extractable plasticizer

Environmental Health & Safety

Ozone Depletion Potential (ODP) ¹	None
Global Warming Potential (GWP) ²	200
Atmospheric Lifetime (years)	3.8

¹ HCFC-225 ca/cb ratio is 45/55

² CFC-11 = 1.0

Storage & Handling

Before using this product, carefully read and follow all precautions and directions provided on the product label and in the Safety Data Sheet (SDS)

Certonal HFE7300 Engineered Fluid is non-flammable and highly resistant to thermal breakdown and hydrolysis during storage and use. It is thermally and hydrolytically stable, keeping integrity under normal storage conditions without oxidation or degradation. To ensure the best performance, store containers in a clean, dry area away from direct sunlight, with a recommended storage temperature not exceeding 30°C.

For detailed handling and safety recommendations, refer to the SDS, available from your local representative.

