

TECHNICAL DATA SHEET

AD-7100 Fluorinated Engineering Fluid

Description and Applications

AD-7100 Fluorinated Engineered Fluid, methoxy-nonafluorobutane (C₄F₉OCH₃), is clear and colorless, nonflammable, chemically inert and thermally stable. AD-7100 is intended for the following suggested industrial and electronic applications: Cleaning and rinsing agent (heavy oils, grease, fluxes, waxes, surface contaminate debris and fluoropolymers; heat transfer fluid; lubricant fluid; specialty solvent; and dielectric test media.

Physical Properties

Properties	AD-7100 Value
Average Molecular Weight	250 (g/mol)
Boiling Point	61°C
Pour Point	-135°C
Calculated Critical Temperature	195°C
Vapor Pressure	26 (kPa)
Liquid Density (25°C)	1520 (kg/m ³)
Kinematic Viscosity	0.38 (cSt)
Absolute Viscosity	0.58 (cP)
Liquid Specific Heat	1183 (J/kg-K)
Surface Tension	13.6 (mN/m)
Dielectric Strength	>40 (kV)
Dielectric Constant@1kHz	7.4
volume resistivity	10 ⁸ (Ohm-cm)
Solubility of Solvent in Water	12(ppm)
Solubility of Water in Solvent	95(ppm)
Ozone Depletion Potential	0
Global Warming Potential	300

Compatibility

AD-7100 is compatible with most metals and hard polymers. Soft elastomeric materials should be limited to those that contain the least amount of extractable plasticizer. It may be absorbed into fluorinated plastics and elastomers over longer exposures.

Packing

5kgs/can	(Drum capacity: 4L)
20kgs/Pail	(Drum capacity: 15L)
250kgs/Drum	(Drum capacity: 200L)

Storage

Conditions for safe storage. Store away from strong acids. Store away from strong bases. Store away from oxidizing agents.