

3M Novec™ 71DA Engineered Fluid

Category : Fluid

Material Notes:

3M™ Novec™ 71DA Engineered Fluid is a hydrofluoroether, Methyl Nonafluorobutyl Ether (C4F9OCH3), in an azeotrope formulation with trans-1,2-dichloroethylene (t-DCE) and ethanol. This mixture is a true azeotrope, with constant vapor and liquid composition at its boiling point. Novec 71DA fluid is ideal for defluxing and degreasing tasks and is intended to replace ozone-depleting materials in many applications as well as certain aqueous cleaning processes and solvent coating applications. This Novec product has zero ozone depletion potential and other favorable environmental properties (see Table 2). Novec 71DA fluid has a recommended time-weighted average exposure guideline of 750 ppm for the 3M™ Novec™ 7100 Engineered Fluid component (eight hour average), 200 ppm for trans-1,2-dichloroethylene (t-DCE) and 1000 ppm for ethyl alcohol. These exposure guidelines suggest there is a large margin of safety for use of Novec 71DA fluid in its intended cleaning applications. The increased solvency and low surface tension, nonflammability and constant composition during boiling of Novec 71DA fluid make it ideal for immersion defluxing and degreasing applications. The ethanol component of Novec 71DA fluid provides enhanced removal of ionic contaminants. Applications: Cleaning, rinsing and drying agent; coating solvent Cleaning of oils, greases, waxes, handling oils and solder flux residue Precision coating of silicones and other lubricants Information provided by 3M

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http://www.lookpolymers.com/polymer_3M-Novec-71DA-Engineered-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	Liquid
Viscosity	0.45 cP	0.45 cP	
Vapor Pressure	0.508 bar	381 torr	
Surface Tension	16.4 dynes/cm	16.4 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	209.3 J/g	90.06 BTU/lb	
Boiling Point	40.0 °C	104 °F	

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