3M Novec™ 7100 Engineered Fluid

Category : Fluid

Material Notes:

3M™ Novec™ 7100 Engineered Fluid, methoxy-nonafluorobutane (C4F9OCH3), is a clear, color less and low-odor fluid intended to replace ozone-depleting substances (ODSs) and compounds with high global warming potential (GWP) in many applications. Its physical properties are compared with several other ODS replacement fluid candidates in Table 1. This proprietary fluid has zero ozone depletion potential and other favorable environmental properties (see Table 2). It has one of the best toxicological profiles of CFC replacement materials, with a time-weighted average exposure guideline of 750 ppm (eight hour average). The high boiling point and low surface tension of Novec 7100 fluid make it ideal for use in vapor degreasing applications as a neat (pure), azeotropic component or co-solvent parts cleaner. In addition, its chemical and thermal stability, non-flammability and low toxicity make it useful for many other industrial and specialty solvent applications.Typical Applications:Cleaning and rinsing agent, Heavy-duty cleaning (co-solvent)– heavy oils, greases, fluxes Medium-duty cleaning (azeotrope)– oils, greases, waxes, Light-duty cleaning (neat)– particulates, fluorolubes, light oils, fluoropolymersLubricant carrier, Fluorocarbons, Hydrocarbons, SiliconesSpot-free water drying agent (with surfactants added)Specialty solvents, dispersion media, reaction mediaSpray contact cleanerCFC, HCFC, HFC and PFC replacement Dielectric test mediaHeat transfer See “3M™ Novec™ 7100 Engineered Fluid for Heat Transfer” Application InformationInformation provided by 3M

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http://www.lookpolymers.com/polymer_3M-Novec-7100-Engineered-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.538 g/cc	0.05556 lb/in³	
Molecular Weight	250 g/mol	250 g/mol	
Surface Tension	13.6 dynes/cm	13.6 dynes/cm	

Thermal Properties	Metric	English	Comments
Boiling Point	61.0 °C	142 °F	

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