3M Novec™ 612 Magnesium Protection Fluid

Category : Fluid

Material Notes:

Novec 612 fluid, dodecafluoro-2-methyl-3-pentanone or (CF3CF2C(O)CF(CF3)2, is a clear, colorless, and low odor fluid. Its properties, environmental profile, and margin of safety make it a sustainable material for protecting molten reactive metals such as magnesium and its alloys. Novec 612 fluid has the advantage of being a liquid at room temperature. This makes it easy to transport in conventional liquid containers of all sizes. Because of its low viscosity, Novec 612 fluid also is easy to transfer by pumping. Yet it quickly and easily evaporates into a gas stream for use as a cover gas because of its high vapor pressure and low heat of vaporizationInformation provided by 3M

Order this product through the following link: http://www.lookpolymers.com/polymer_3M-Novec-612-Magnesium-Protection-Fluid.php

Physical Properties	Metric	English	Comments	
Density	1.60 g/cc	0.0578 lb/in³	Sat. Liquid	
	0.0136 g/cc	0.000491 lb/in³	Gas	
	@Pressure 0.101 MPa	@Pressure 14.7 psi	043	
Viscosity Measure	0.39 cSt	0.39 cSt	Liquid	
Molecular Weight	316.04 g/mol	316.04 g/mol		
Vapor Pressure 0.404 bar		303 torr		

Thermal Properties	Metric	English	Comments
Heat of Vaporization	88.0 J/g	37.9 BTU/lb	at boiling point
Specific Heat Capacity	acity 1.103 J/g-°C		Liquid
	0.891 J/g-°C	0.213 BTU/lb-°F	Vapor
	@Pressure 0.101 MPa	@Pressure 14.7 psi	Vapor
Boiling Point	49.2 °C	121 °F	
boning rom	@Pressure 0.101 MPa	@Pressure 14.7 psi	

Chemical Properties	Metric	English	Comments
Critical Pressure	18.65 bar	13990 torr	
Critical Temperature	168.7 °C	335.7 °F	
Critical Density	0.639 g/cc	0.0231 lb/in ³	

Descriptive Properties Value Comments

SONGHAN Plastic Technology Co., Ltd.

Belative Dielectric Strength Descriptive Properties	Value	Later (N-gub>2=1.0) Comments
Solubility of Water	<0.001%	in Novec 612 Fluid

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