

TRIBOLUBE[®] F-221

Synthetic Perfluoro Polyether Lubricant

CHARACTERISTICS

TRIBOLUBE F-221 perfluoro polyether oil is an high performance oil designed for applications in harsh environments where non-reactivity with strong oxidizers, insolubility in solvents, radiation resistance, or high temperature performance is required. Tribolube F-221 oil has an excellent viscosity index and operates from -100°F to +450°F.

APPLICATIONS

Tribolube F-221 is an excellent lubricant for high speed precision bearings and electrical contacts and is insoluble in most organic solvents, but is soluble in highly fluorinated solvents. It is compatible with most plastics, elastomers and metals under normal operating temperatures. Although newly exposed surfaces of aluminum, titanium and magnesium under certain conditions may cause depolymerization of perfluoroether oils.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Viscosity index	ASTM-D-2270		282
Pour point	ASTM-D-97		<-75 °C
Kinematic viscosity	ASTM-D-445	@ 20 °C	NA
		@ 40 °C	72.6 cSt
		@ 100 °C	19.5 cSt
Evaporation Weight Loss	ASTM-D-2595	@ 149 °C, 22 hr.	1.2 %
		@ 204 °C, 22 hr.	5.4 %
Load Wear Index	ASTM-D-2596	Init. Seiz. load	459 kg
		Welding load	629 kg
		Mean hertz load	112 kg
Four Ball Wear Test	ASTM-D-4172B	Avg. scar diameter	1.0 mm

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