

TRIBOLUBE[®] F-187

Synthetic Perfluoro Polyether Lubricant

CHARACTERISTICS

TRIBOLUBE F-187 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-187 oil has an excellent viscosity index and low temperature properties.

APPLICATIONS

Tribolube F-187 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		338
Pour point	ASTM-D-97		-65°C
Kinematic viscosity	ASTM-D-445	@ 20 °C	280 cSt
		@ 40 °C	159 cSt
		@ 100 °C	45 cSt
Evaporation Weight Loss	ASTM-D-2595	@ 149 °C, 22 hr.	NA
		@ 204 °C, 22 hr.	0.7 %
Load Wear Index	ASTM-D-2596	Init. Seiz. load	625 kg
		Welding load	625 kg
		Mean hertz load	114 kg
Four Ball Wear Test	ASTM-D-4172B	Avg. scar diameter	0.97 mm

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