TRIBOLUBE-16

Fluorinated Polyether Greases

CHARACTERISTICS

Tribolube-16 is a wide temperature range grease especially useful in vacuum and other systems where nonreactivity with chemicals, strong acids and oxidizers, fuels, and solvents is required. **Tribolube-16** meets the qualification requirements of MIL-PRF-27617F - Types 2 & 3. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions.

APPLICATIONS

This grease is suitable in applications including small and large diameter ball, roller, needle, and plain bearings, electrical contacts, threads, valves, gears, contacts, splines, ball screws, and screw actuators. It is compatible with most elastomers and plastic seals, gaskets and O-rings.

PERFORMANCE	TEST METHOD	CONDITION	TYPICAL VALUES
TEST			
Temperature Range			-45° to 400°F
NLGI Number			2
Unworked Penetration	ASTM D-1403	@ 77°F	299
Worked Penetration	ASTM D-1403	60 Strokes	300
Oil Separation	FED-STD-791Method 321	30 hrs @ 400°F	10.45%
Evaporation	ASTM D-2595	22 hrs @ 350°F	1.00%
		22 hrs @ 400°F	5.30%
Low	ASTM D-1478	@ -30°F.	
Temperature		starting	1,885 gm-cm
Torque		60 min running	1,235 gm-cm
		@-40°F,	-, 8
		Starting	6,500 gm-cm
		60 min running	2,925 gm-cm
		@-45°F,	2,723 gm cm
		starting	16,575 gm-cm
		60 min running	14,300 gm-cm
Copper Corrosion	FED-STD-791	24 hrs @ 212°F	1a
	Method 5309		14
Load Wear Index	ASTM D-2596		135
Last Non-seizure	713111 15 2370	Load/Wear Scar	NR
Last seizure	┨	Load/Wear Scar	500 kg/1.31mm
Weld Point	7	Load	620 kg
Steel-on-Steel	ASTM D-2266	1200 rpm, 40 kg,	020 115
Wear	7151W D-2200	1 hrs @ 400°F,	
		52100 steel	1.07 mm
High Temperature	ASTM D-3336	20,000 rpm @ 400°F, 5 lb. load	>600 hrs
Performance	1131111 2 3330	10,000 rpm @ 400°F, 5 lb.load	>2,000 hrs
		10,000 rpm @ 425°F, 5 lb. load	>2,000 hrs
Film Stability & Steel	MIL-PRF-27617	168 hrs @ 212°F	Pass
Corrosion	WILL THE 27017	100 ms © 212 1	1 400
Water Washout	ASTM D-1264	1 hrs @ 105°F	0.8%
Resistance to	FED-STD-791	168 hrs @ 77°F	Pass
Aqueous Solution	Method 5415		2 400
LOX Impact	ASTM D-2512	20 impacts	No Reaction
Sensitivity	1101111 10 2012	from 1,100 mm	1.0 Itaation
Fuel Stability	FED-STD-791	@ 77°F	0.20%
Fuel Resistance	Method 5414	8 hrs @ 77°F	Pass
Vapor Pressure	Knudsen	O m S @ 77 I	10-6 Torr

Extending Component Life with Tribolube Synthetic Lubricants®