

Fluorinated Polyether Greases

CHARACTERISTICS

TRIBOLUBE-37 primary characteristics are that it has a very wide temperature range, nonreactive with strong acids, oxygen, fuels, and solvents, extremely low start/run torques at -100°F, and a low evaporation rate, even at temperatures of 450°F. It is an excellent anti-wear, extreme pressure lubricant with long life. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions. Tribolube-37 is available with an extreme pressure additives designated by the

letters MS as well as three different corrosion inhibitors designated by the letters RPA, RPB, & RPC. Please consult with an ALI lubrication engineer to select the correct one for your application.

APPLICATIONS

TRIBOLUBE-37 is intended for use in small and large diameter ball, roller, needle, and plain bearings, threads, valves, gears, and screw actuators. It is compatible with most elastomers and plastic seals, gaskets and O-rings.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-100° to 550°F
NLGI Number			1
Unworked Penetration	ASTM D-1403	@ 77°F	316
Worked Penetration	ASTM D-1403	60 Strokes	325
Oil Separation	FED-STD-791 Method 321	30 hrs @ 300°F	8.63%
		30 hrs @ 350°F	10.56%
		30 hrs @ 400°F	12.13%
Evaporation	ASTM D-2595	22 hrs @ 400°F	0.43%
		22 hrs @ 450°F	0.71%
Low Temperature Torque	ASTM D-1478	@ -65°F, starting	780 gm-cm
		60 min running	325 gm-cm
		@ -75°F, Starting	943 gm-cm
		60 min running	390 gm-cm
		@ -100°F, starting	4,388 gm-cm
60 min running	1,365 gm-cm		
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1b
Load Wear Index	ASTM D-2596		151.54
Last Non-seizure		Load/Wear Scar	None
Last seizure		Load/Wear Scar	620 kg/ 1.80 mm
Weld Point		Load	800 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 1 hr @ 167°F, 52100 steel	1.16 mm
		1,200 rpm, 40 kg, 1 hr, @ 400°F 52100 steel	0.98 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F 5 lb. load	+2,800 hrs
Film Stability & Steel Corrosion	Mil-G-27617D	168 hrs @ 212°F	Pass
Water Washout	ASTM D-1264	1 hrs @ 105°F	0.1%
Resistance to Aqueous Solution	FED-STD-791 Method 5415	168 hrs @ 77°F	Pass
LOX Impact Sensitivity	ASTM D-2512	20 impacts from 1,100 mm	No Reaction
Fuel Stability	FED-STD-791	@ 77°F	0.20%
Fuel Resistance	Method 5414	8 hrs @ 77°F	Pass