

## Fluorinated Polyether Greases

### CHARACTERISTICS

**TRIBOLUBE-61** 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 550°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-61 is available with an extreme pressure additives designated by the

letters MS as well 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-61** 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	315
Worked Penetration	ASTM D-1403	60 Strokes	317
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	0.60%
		22 hrs @ 500°F	1.00%
Low Temperature Torque	ASTM D-1478	@ -65°F, starting	975 gm-cm
		60 min running	410 gm-cm
		@ -75°F, Starting	1,500 gm-cm
		60 min running	800 gm-cm
		@ -100°F, starting	2,993 gm-cm
60 min running	1,338 gm-cm		
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1b
Load Wear Index	ASTM D-2596		171.30
Last Non-seizure		Load/Wear Scar	None
Last seizure		Load/Wear Scar	620 kg/ 1.42 mm
Weld Point		Load	+800 kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hrs @ 167°F, 52100 steel	1.16 mm
		1200 rpm, 40 kg, 1 hrs, @ 400°F 52100 steel	NA
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F 5 lb. load	+3,400 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