

## Fluorinated Polyether Greases

### CHARACTERISTICS

Tribolube-57 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. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions. Tribolube-57 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

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	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-5° to 550°F
NLGI Number			3
Unworked Penetration	ASTM D-1403	@ 77°F	220
Worked Penetration	ASTM D-1403	60 Strokes	278
Oil Separation	FED-STD-791 Method 321	30 hrs @ 212°F	2.9%
		30 hrs @ 400°F	10.45%
Evaporation	ASTM D-2595	22 hrs @ 400°F	1.10%
Low Temperature Torque	ASTM D-1478	@ 30°F, starting	2,185 gm-cm
		60 min running	1,535 gm-cm
		@ 0°F, Starting	6,750 gm-cm
		60 min running	3,025 gm-cm
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1a
Load Wear Index	ASTM D-2596		153.25
Last Non-seizure		Load/Wear Scar	40 kg/0.40 mm
Last seizure		Load/Wear Scar	800 kg/1.55 mm
Weld Point		Load	+800 kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hrs @ 167°F, 52100 steel	1.04 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F, 5 lb. load	>3,000 hrs
		10,000 rpm @ 425°F, 5 lb. load	>2,500 hrs
Film Stability & Steel Corrosion	Mil-G-27617D	168 hrs @ 212°F	Pass
Water Washout	ASTM D-1264	1 hrs @ 105°F	0.3%
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	0.15%
Fuel Resistance	Method 5414	8 hrs @ 77°F	Pass

*Extending Component Life with Tribolube Synthetic Lubricants<sup>®</sup>*