

Special Purpose Fluorinated Polyether Grease

CHARACTERISTICS

TRIBOLUBE-47 primary characteristics is that it does not utilize PTFE or FEP as the thickening agent. Tribolube-47 has a very wide temperature range (-100°F to 550°F), is nonreactive with strong acids and oxygen. This grease is not recommended for applications in contact with fuels or solvents without testing to confirm compatibility. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions. Tribolube-47 is available with three different corrosion inhibitors designated by the letters RPA, RPB, & RPC. Please con-

sult with an ALI lubrication engineer to select the correct one for your application.

APPLICATIONS

This grease was developed for dynamic applications requiring the performance of a PFPE grease at DN values over 500,000. Other applications are small and large diameter ball, roller, needle, and plain bearings, 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	0.50%
		22 hrs @ 450°F	0.78%
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		124.85
Last Non-seizure		Load/Wear Scar	80 kg/0.40 mm
Last seizure		Load/Wear Scar	400 kg/ 0.93 mm
Weld Point		Load	500 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 1 hr @ 167°F, 52100 steel	0.85 mm
		1,200 rpm, 40 kg, 1 hr, @ 400°F 52100 steel	0.94 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F 5 lb. load	+3,200 hrs
LOX Impact Sensitivity	ASTM D-2512	120 impacts from 1.100 mm	No Reaction

Extending Component Life with Tribolube Synthetic Lubricants®