TRIBOLUBE®-14A, -14B,-14C & 14AFL

Fluorinated Polyether Greases

CHARACTERISTICS

These greases are especially useful in vacuum and other systems where nonreactivity with chemicals, strong acids and oxidizers, fuels, and solvents is required. Each grease is suited for different operating environment temperatures. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions. The Tribolube-14 series is available with two different corrosion inhibitors designated by the letters RPA & RPC. Please consult with an ALI lubri- cation engineer to select the correct one for your application.

APPLICATIONS

These greases are 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.

Also, Fluorescing dye may be added to create the AFL version, that will allow the grease to be inspected under black-light conditions to ensure that it has been applied correctly in the application.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES		
			TRIBOLUBE-14A	TRIBOLUBE-14B	TRIBOLUBE-14C
Temperature Range			-140ºF to 450ºF	-130ºF to 500ºF	-125ºF to 550ºF
NLGI No.			1	1	1
Unworked Penetration	ASTM D-1403	@ 77ºF	290	300	295
Worked Penetration	ASTM D-1403	60 Strokes	295	301	300
Evaporation	ASTM D-2595	22 hrs @ 300ºF	3.74%		
		22 hrs @ 325ºF	4.92%		
		22 hrs @ 350ºF	6.39%		
		22 hrs @ 400ºF	11.1%	2.19%	0.50%
		22 hrs @ 450ºF	17.52%	3.80%	
		22 hrs @ 500ºF		6.46%	0.80%
		22 hrs @ 550ºF			14.46%
		72 hrs @ 450ºF			0.90%
Low Temperature Torque	ASTM D-1478	@ -65ºF, Starting	293 gm-cm	325 gm-cm	813 gm-cm
		Running	65 gm-cm	98 gm-cm	358 gm-cm
		@ -100ºF, Starting	358 gm-cm	1,105 gm-cm	2,698 gm-cm
		Running	98 gm-cm	455 gm-cm	1,138 gm-cm
		@ -110ºF, Starting			5,493 gm-cm
		Running			2,340 gm-cm
		@ -125ºF, Starting	1,528 gm-cm	5,460 gm-cm	13,650 gm-cm
		Running	878 gm-cm	2,373 gm-cm	3,055 gm-cm
		@ -140ºF, Starting	5,850 gm-cm		
		Running	2,015 gm-cm		
High Temperature Performance	ASTM D-3336	400ºF, 10,000 rpm 5 lbs.		+ 3,500 hrs	
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212ºF	1b	1b	1b
LOX Impact Sensitivity	ASTM D-2512	20 impacts from 43.3 in	No Reactions	No Reactions	No Reactions
Load Wear Index	ASTM D-2596		170.29	128.40	172.50
Last Non-seizure		Load/Wear Scar	80 kg/0.85 mm	63 kg/0.48 mm	80 kg/0.54 mm
Last Seizure		Load/Wear Scar	600 kg/1.71 mm	500 kg/2.89 mm	620 kg/1.40 mm
Weld Point		Load	800 kg	620 kg	800 kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 2 hrs @ 167ºF, 52100 Steel	0.69 mm	0.94 mm	1.10 mm