TRIBOLUBE®-64

Fluorinated Polyether Greases

CHARACTERISTICS

TRIBOLUBE-64 primary characteristic is that it has extremely low start run torques at -100ºF, yet will operate at temperatures of 400ºF for long periods of time. Tribolube-64 is nonreactive with strong acids, oxygen, fuels, and solvents. 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 grease under certain conditions. Tribolube-64 is available with EP agents using the designation of MS or SW, or rust inhibitors using the following designations, RPA, RPB, RPC. Consult with an ALI lubrication specialist for the correct rust inhibitor for your application.

APPLICATIONS

TRIBOLUBE-64 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			-100º to 400ºF
NLGI Number			
Unworked Penetration	ASTM D-1403	@ 77ºF	348
Worked Penetration	ASTM D-1403	60 Strokes	343
Oil Separation	FED-STD-791 Method 321	30 hrs @ 250ºF	5.81%
		30 hrs @ 400ºF	
Evaporation	ASTM D-2595	22 hrs @ 250ºF	2.71%
		22 hrs @ 400ºF	10.11%
Low Temperature Torque	ASTM D-1478	@ -65ºF, starting	293 gm-cm
		60 min running	195 gm-cm
		@-100ºF, starting	943 gm-cm
		60 min running	176 gm-cm
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212ºF	1b
Load Wear Index	ASTM D-2596		222.36
Last Non-seizure		Load/Wear Scar	100 kg/ 0.57 mm
Last seizure		Load/Wear Scar	
Weld Point		Load	800+ kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hrs @ 167ºF, 52100 steel	0.80 mm
		1200 rpm, 40 kg, 1 hrs, @ 400ºF 52100 steel	0.91 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400ºF 5 lb. load	NA
Film Stability & Steel Corrosion	Mil-G-27617D	168 hrs @ 212ºF	Pass
Water Washout	ASTM D-1264	1 hr @ 105ºF	1.46%
Resistance to Aqueous Solution	FED-STD-791 Method 5415	168 hrs @ 77ºF	Pass
LOX Impact Sensitivity	ASTM D-2512	20 impacts from 1,100 mm	No Reaction
Fuel Stability	FED-STD-791	@ 77ºF	0.21%
Fuel Resistance	Method 5414	8 hrs @ 77ºF	Pass
Oxidation Stability	ASTM D-942	100 hours @ 212ºF	0 psi
		500 hours @ 212ºF	0 psi