

TRIBOLUBE®-64RPCMS

Fluorinated Polyether Grease

CHARACTERISTICS

TRIBOLUBE-64RPCMS primary characteristic is that it has extremely low start run torques at -100°F, yet will operate at temperatures of 400°F for long periods of time. Tribolube-64RPCMS 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.

APPLICATIONS

TRIBOLUBE-64RPCMS 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 400°F
NLGI Number			
Unworked Penetration	ASTM D-1403	@ 77°F	352
Worked Penetration	ASTM D-1403	60 Strokes	344
Oil Separation	FED-STD-791 Method 321	30 hrs @ 250°F	5.80%
		30 hrs @ 400°F	
Evaporation	ASTM D-2595	22 hrs @ 250°F	2.76%
		22 hrs @ 400°F	10.22%
Low Temperature Torque	ASTM D-1478	@ -65°F, starting	290 gm-cm
		60 min running	187 gm-cm
		@ -100°F, starting	940 gm-cm
		60 min running	174 gm-cm
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1a
Load Wear Index	ASTM D-2596		222.40
Last Non-seizure		Load/Wear Scar	100 kg/ 0.56 mm
Last seizure		Load/Wear Scar	
Weld Point		Load	800+ kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hrs @ 167°F, 52100 steel	0.80 mm
		1200 rpm, 40 kg, 1 hrs, @ 400°F 52100 steel	0.91 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F 5 lb. load	NA
Film Stability & Steel Corrosion	Mil-G-27617D	168 hrs @ 212°F	Pass
Water Washout	ASTM D-1264	1 hr @ 105°F	1.46%
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	0.21%
Fuel Resistance	Method 5414	8 hrs @ 77°F	Pass
Oxidation Stability	ASTM D-942	100 hours @ 212°F	0 psi
		500 hours @ 212°F	0 psi