

TRIBOLUBE®-15,-15MS,-15RP,-15V

Fluorinated Polyether Greases

广州孚润 400-992-6811

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.

Tribolube-15 and Tribolube-15MS respectively meet the requirements for MIL-PRF-27617 Types 4 & 5. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions.

APPLICATIONS

Tribolube-15V is recommended for vacuum applications. Tribolube-15RP is available with three different corrosion inhibitors designated by the letter RPA, RPB, & RPC. Please consult with an ALI lubrication engineer to select the correct one for your application. 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.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES				
			TRIBOLUBE-15	TRIBOLUBE-15MS	TRIBOLUBE-15RPA	TRIBOLUBE-15V	
Temperature Range			-100°F to 450°F	-100°F to 450°F	-100°F to 450°F	-100°F to 450°F	
NLGI No.			2	2	2	2	
Unworked Penetration	ASTM D-1403	@ 77°F	291	294	287	292	
Worked Penetration	ASTM D-1403	60 Strokes	295	295	275	295	
Oil Separation	FED-STD-791 Method 321	30 hrs @ 400°F	9.66%	5.70%	11.35%	11.2%	
		30 hrs @ 450°F	10.24%	22.5%			
Evaporation	ASTM D-2595	22 hrs @ 400°F	4.31%	0.12%	0.08%		
		30 hrs @ 400°F	4.51%			0.08%	
		22 hrs @ 450°F		0.18%	0.18%		
		72 hrs @ 450°F		2.13%			
		22 hrs @ 500°F		0.80%			
Rust Preventative Properties	ASTM D-1743	48 hrs @ 125°F			Pass		
Low Temperature Torque	ASTM D-1478	@ -65°F, Starting	520 gm-cm			910 gm-cm	
		Running	163 gm-cm			390 gm-cm	
		@ -100°F, Starting	1,450 gm-cm	3,283 gm-cm		3,185 gm-cm	
		10 min Running		2,990 gm-cm			
		60 min Running	618 gm-cm	2,470 gm-cm		975 gm-cm	
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1b	1b	1b		
LOX Impact Sensitivity	ASTM D-2512	20 impacts from 43.3 in	No Reactions	No Reactions	No Reactions	No Reaction	
Load Wear Index	ASTM D-2596		170.29	152.25	151.25	152.25	
Last Non-seizure		Load/Wear Scar	80 kg/0.52 mm	32 kg/0.31 mm	40 kg/0.40 mm	40 kg/0.40 mm	
Last Seizure		Load/Wear Scar	600 kg/1.71 mm	800 kg/1.70 mm	800 kg/1.50 mm	800 kg/1.52 mm	
Weld Point		Load	800 kg	1,000 + kg	1,000 + kg	1,000 + kg	
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hr @ 167°F, 52100 Steel	0.70 mm	0.97 mm	0.90 mm	0.90 mm	
		1200rpm, 40 kg, 1 hr @ 400°F 52100 Steel	1.12 mm			1.33 mm	
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F 5 lbs	1,600 + hrs	2,250 + hrs		1,800 + hrs	
		10,000 rpm @ 450°F 5 lbs	500 + hrs	1,000 + hrs		500 + hrs	
Film Stability and Corrosion	FED STD-791 Method 5414	168 hrs @ 212°F	Pass	Pass		Pass	
Vapor Pressure	Knudsen	@ 68°F		10 -12 Torr		10 -12 Torr	
Dropping Point	ASTM D-2265					438°F	
Vacuum Thermal Stability	NASA SP-R-0022A	24 hrs @ 6 X 10 ⁻⁶ Torr					
Weight Loss				0.15%	0.12%	0.07%	
Volatile Condensables				0.03%	0.01%	0.00%	
Water Vapor Recovery					0.01%	0.01%	0.01%