TRIBOLUBE[®]15,-15MS,-15RP,-15V

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.

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.

广州孚润 400-992-6811

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.

Penetration Worked AS Penetration FE Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	STM D-1403 STM D-1403 SD-STD-791 ethod 321 STM D-2595 STM D-1743	@ 77°F 60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 48 hrs @ 125°F	TRIBOLUBE-15 -100°F to 450°F 2 291 295 9.66% 10.24% 4.31% 4.51%	-100°F to 450°F 2 294 295 5.70% 22.5% 0.12% 0.18% 2.13%	TRIBOLUBE-15RPA -100°F to 450°F 2 287 275 11.35% 0.08% 0.18%	TRIBOLUBE-15V -100°F to 450°F 2 292 295 11.2% 0.08%
Range Image NLGI No. Image Unworked AS Penetration Image Worked AS Penetration Image Oil Seperation FE Evaporation AS Rust Preventative AS Properties Image: Comparison of the second secon	STM D-1403 ED-STD-791 ethod 321 STM D-2595 STM D-1743	60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 21 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 22 hrs @ 500°F	2 291 295 9.66% 10.24% 4.31%	2 294 295 5.70% 22.5% 0.12% 0.18% 2.13%	2 287 275 11.35% 0.08%	-100°F to 450°F 2 292 295 11.2%
Range Image NLGI No. Image Unworked AS Penetration Image Worked AS Penetration Image Oil Seperation FE Evaporation AS Rust Preventative AS Properties Image: Comparison of the second secon	STM D-1403 ED-STD-791 ethod 321 STM D-2595 STM D-1743	60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 21 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 22 hrs @ 500°F	2 291 295 9.66% 10.24% 4.31%	2 294 295 5.70% 22.5% 0.12% 0.18% 2.13%	2 287 275 11.35% 0.08%	2 292 295 11.2%
NLGI No. AS Unworked AS Penetration AS Worked AS Penetration Max Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	STM D-1403 ED-STD-791 ethod 321 STM D-2595 STM D-1743	60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 21 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 22 hrs @ 500°F	2 291 295 9.66% 10.24% 4.31%	2 294 295 5.70% 22.5% 0.12% 0.18% 2.13%	2 287 275 11.35% 0.08%	2 292 295 11.2%
Unworked AS Penetration AS Penetration FE Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	STM D-1403 ED-STD-791 ethod 321 STM D-2595 STM D-1743	60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 21 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 22 hrs @ 500°F	291 295 <u>9.66%</u> 10.24% 4.31%	295 5.70% 22.5% 0.12% 0.18% 2.13%	287 275 11.35% 0.08%	292 295 11.2%
Penetration AS Worked AS Penetration FE Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	STM D-1403 ED-STD-791 ethod 321 STM D-2595 STM D-1743	60 Strokes 30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 21 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F 22 hrs @ 500°F	295 9.66% 10.24% 4.31%	295 5.70% 22.5% 0.12% 0.18% 2.13%	275 11.35% 0.08%	295 11.2%
Worked AS Penetration FE Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	ED-STD-791 ethod 321 STM D-2595 STM D-1743	30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F	9.66% 10.24% 4.31%	5.70% 22.5% 0.12% 0.18% 2.13%	0.08%	11.2%
Penetration FE Oil Seperation FE Evaporation AS Rust Preventative Properties AS	ED-STD-791 ethod 321 STM D-2595 STM D-1743	30 hrs @ 400°F 30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F	10.24% 4.31%	5.70% 22.5% 0.12% 0.18% 2.13%	0.08%	11.2%
Oil Seperation FE Evaporation AS Rust Preventative AS Properties AS	ethod 321 STM D-2595 STM D-1743	30 hrs @ 450°F 22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F	10.24% 4.31%	22.5% 0.12% 0.18% 2.13%	0.08%	
Image: Non-State Me Evaporation AS Rust Preventative Properties AS	ethod 321 STM D-2595 STM D-1743	22 hrs @ 400°F 30 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F	4.31%	22.5% 0.12% 0.18% 2.13%	0.08%	0.08%
Rust Preventative AS Properties	STM D-1743	30 hrs @ 400°F 22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F		0.18%		0.08%
Rust Preventative AS Properties	STM D-1743	22 hrs @ 450°F 72 hrs @ 450°F 22 hrs @ 500°F	4.51%	2.13%	0.18%	0.08%
Rust Preventative AS Properties	STM D-1743	72 hrs @ 450°F 22 hrs @ 500°F		2.13%	0.18%	
Properties		22 hrs @ 500°F				
Properties				0.0007		
Properties		48 hrs @ 125°F		0.80%		
	DTL (D. 1470	1 1			Pass	
Low LAS						
	STM D-1478	@ -65°F,	520			010
Temperature		Starting	520 gm-cm			910 gm-cm
Torque		Running @-100°F,	163 gm-cm			390 gm-cm
		Starting	1,450 gm-cm	2 202		3,185 gm-cm
		10 min Running	1,450 giii-ciii	3,283 gm-cm		5,165 giii-ciii
		60 min Running	618 gm-cm	2,990 gm-cm 2,470 gm-cm		975 gm-cm
Copper Corrosion FE	ED-STD-791	24 hrs @ 212°F	1b	2,470 gm-cm	1b	775 gill-cill
	ethod 5309	24 1113 (0) 212 1	10	10	10	
	STM D-2512	20 impacts	No Reactions	No Reactions	No Reactions	No Reaction
Sensitivity	511110 2512	from 43.3 in	110 11040110110	1 to redections	1 to reductions	110 100001011
	STM D-2596		170.29	152.25	151.25	152.25
Last Non-seizure	,11112 20,0	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 AS	STM D-2266	1200 rpm, 40 kg,		<u>_</u>		
Wear		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
	STM D-3336	10,000 rpm @ 400°F				
Performance		5 lbs	1,600 + hrs	2,250 + hrs		1,800 + hrs
		10,000 rpm @ 450°F	500 · 1			500 - 1
		5 lbs	500 + hrs	1,000 + hrs		500 + hrs
	ED STD-791	168 hrs @ 212°F	Pass	Pass		Pass
	ethod 5414	(a) 699E		10.12 T		10 -12 Torr
	nudsen	@ 68°F		10 -12 Torr		10 ⁻ 12 Torr 438°F
	STM D-2265	24 hrs(a)				430 Г
I	ASA P-R-0022A	6 X 10-6 Torr				
Weight Loss SP-	-n-0022A	0 / 10-0 1011		0.15%	0.12%	0.07%
Volatile				0.1370	0.12/0	0.0770
Condensables				0.03%	0.01%	0.00%
Water Vapor				0.0570	·······	
Recovery				0.01%	0.01%	0.01%