

TRIBOLUBE[®]-3

Special Purpose Grease

CHARACTERISTICS

Conforming to MIL-G-83414 requirements, this grease is an excellent grease with a wide temperature range, high load carrying capacity, and extremely good lubrication properties at very high loads. Inhibited against oxidation and corrosion, it has an operating temperature range -65°F to 350°F. Note that the Steel-on-Steel wear data are reported with a 75 kg load, rather than the standard 40 kg load, and 2 hour test duration rather than the standard 1 hour.

APPLICATIONS

This grease was especially designed for heavily loaded sliding applications in aircraft gun mount shoulder bearing, gun mount bases and in mating yokes, and is highly recommended for use in many heavily loaded sliding applications at high or low temperatures.

PERFORMANCE TEST	TEST METHOD	CONDITION	MIL-G-83414 REQUIREMENTS	TYPICAL VALUES
Temperature Range				-65°F to 350°F
NLGI No.				1
Unworked Penetration	ASTM D-1403	@ 77°F		282
Worked Penetration	ASTM D-1403	60 Strokes	315 max	311
Worked Stability	FED-STD-791 Method 313	100,000 Strokes	375 max	340
Evaporation	ASTM D-2595	72 hrs @ 350°F	10.0% max	9.70%
Oil Separation	FED-STD-791 Method 321	30 hrs @ 350°F	5.0% max	4.5%
Load Wear Index	ASTM D-2596		60 min	75
Last Non-seizure		Load/Wear Scar		80 kg/0.42 mm
Last Seizure		Load/Wear Scar		250 kg/1.00 mm
Weld Point		Load		315 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 75 kg, 167°F, 2 hrs, 52100 Steel	1.3 mm max	1.10 mm
Low Temperature Torque	ASTM D-1478	@ -65°F, Starting	2,000 gm-cm max	1,850 gm-cm
		Running	750 gm-cm max	680 gm-cm

Extending Component Life with Tribolube Synthetic Lubricants[®]