TRIBOLUBE[®]2N High Performance Synthetic Grease

CHARACTERISTICS

Conforming to MIL-PRF-83261 requirements, the outstanding qualities of Tribolube-2N is its wide operating temperature range, extreme pressure and antiwear characteristics, non-migratory nature, low foreign and/or opaque particle content, high resistance to microwave energy, and its compatibility with plastic and elastomeric seals. Shelf life exceeds 10 years. **Tribolube-2NMS** maintains the same physical properties as Tribolube-2N but is specially formulated with MoS₂ to enhance its already excellent extreme pressure and antiwear properties. **Tribolube-2NWS** maintains the same physical properties as Tribolube-2NWS maintains the same physical physica pressure additive to enhance its already excellent extreme pressure and antiwear properties.

APPLICATIONS

Aircraft actuators, gears, gimbal rings, oscillation bearings, antifriction and plain spherical bearings. It is especially suitable for use in applications using miniature bearings. Blower motors, motor generators, plastic clutches and gears, servo motors, microwave ovens, speedometer cables, motorcycle and automotive distributors, typewriters, business machines, etc. Other applications include subfractional horsepower gear motors, camera drive systems, microswitch assemblies, reduction gears, and scientific instruments.

PERFORMANCE TEST	TEST METHOD	CONDITION	MIL-PRF-83261 REQUIREMENTS	TYPICAL VALUES
Temperature Range				-100°F to 450°F
NLGI No.				1
Unworked Penetration	ASTM D-1403	@ 77°F		304
Worked Penetration	ASTM D-1403	60 Strokes	270-350	318
Worked Stability	FED-STD-791	100.000 Strokes	375 Max	349
	Method 313			
Dropping Point	ASTM D-2265		450°F	460°F
Evaporation	ASTM D-2595	22 hrs @ 400°F		4.60%
		22 hrs @ 450°F	15% Max	10.62%
Oil Separation	ASTM D-1742	24 hrs @ 400°F	10% 1144	13.40%
		24 hrs @ 450°F	20.0% Max	18.50%
Water Washout	ASTM D-1264	1 hr @ 105°F	20.0% Max	2.20%
Density		1 m C 100 I	20.070 1010	1.85 gm/cc
Bomb Oxidation	ASTM D-942	100 hrs @ 250°		-1.50 psi
Dirt Count	FED-STD-791	10-74 microns		23/cc
	Method 3005	Over 75 microns		11/cc
Coef. of Friction		1,200 rpm, 90°F, 15 kg load		0.089
Load Wear Index	ASTM D-2596	1,200 Ipin, 90 I, 15 kg loud	90 Min	208.3
Last Non-seizure		Load/Wear Scar	<i>70</i> mm	None
Last Seizure		Load/Wear Scar		None
Weld Point		Load		+800 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 167°F,	1.30 mm Max	0.78 mm
	1151 m D 2200	2 hrs, 52100 Steel	1.50 min Max	0.76 mm
		1,200 rpm, 40 kg, 167°F,		0.65 mm
		1 hr, 52100 Steel		0.05 mm
		1,200 rpm, 40 kg, 450°F,	1.30 mmMax	0.53 mm
		2 hrs, M-50 Steel	1.50 minutax	0.55 mm
		1,200 rpm, 40 kg, 450°F,		mm
		2 hrs, 440C Steel		
High Temperature	ASTM D-3336	450°F, 20,000 rpm, 5 lbs.	500 hrs Min	1,230 hrs
Performance	101m D 5550	450°F, 10,000 rpm, 5 lbs.	500 hrs Min	1,650 hrs
renormance		400°F, 10,000 rpm, 5 lbs.	500 III3 MIII	2,400 hrs
Low Temperature	ASTM D-1478	@ -100°F.		2,400 ms
Torque	A51M D-1470	Starting	5,000 gm-cm Max	2,145 gm-cm
Torque		Running	1,000 gm-cm Max	585 gm-cm
		@ -65°F.	1,000 gin-ein Max	505 gin cin
		Starting		460 gm-cm
		Running		38 gm-cm
Rubber Swell	FED-STD-791	Kunning		58 giii-ciii
Buna "N"	Method 3603	168 hrs @ 158°F		4.20 %
Buna "N"	Method 5005	72 hrs @ 275°F		6.80%
Viton "B"		168 hrs @ 158°F		0.80%
Viton "B"		168 hrs @ 300°F		17.40%
Fluorosilicone		168 hrs @ 158°F		5.80%
Fluorosilicone		72 hrs @ 300°F		12.40%
Neoprene		168 hrs @ 158°F		11.80%
Neoprene		72 hrs @ 300°F		23.50%
neopiene		12 IIIS @ 300 F		23.30%