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 MoS_2 to enhance its already excellent extreme pressure and antiwear properties.

Tribolube-2NWS maintains the same physical properties as Tribolube-2N but is specially formulated with a special extreme 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				-100ºF to 450ºF
NLGI No.				1
Unworked Penetration	ASTM D-1403	@ 77ºF		304
Worked Penetration	ASTM D-1403	60 Strokes	270-350	318
Worked Stability	FED-STD-791 Method 313	100,000 Strokes	375 Max	349
Dropping Point	ASTM D-2265		450ºF	460ºF
Evaporation	ASTM D-2595	22 hrs @ 400ºF		4.60%
		22 hrs @ 450ºF	15% Max	10.62%
Oil Separation	ASTM D-1742	24 hrs @ 400ºF		13.40%
		24 hrs @ 450ºF	20.0% Max	18.50%
Water Washout	ASTM D-1264	1 hr @ 105ºF	20.0% Max	2.20%
Density				1.85 gm/cc
Bomb Oxidation	ASTM D-942	100 hrs @ 250º		-1.50 psi
Dirt Count	FED-STD-791 Method 3005	10-74 microns		23/cc
		Over 75 microns		11/cc
Coef. of Friction		1,200 rpm, 90ºF, 15 kg load		0.089
Load Wear Index	ASTM D-2596		90 Min	208.3
Last Non-seizure		Load/Wear Scar		None
Last Seizure		Load/Wear Scar		None
Weld Point		Load		+800 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 167ºF, 2 hrs, 52100 Steel	1.30 mm Max	0.78 mm
		1,200 rpm, 40 kg, 167ºF, 1 hr, 52100 Steel		0.65 mm
		1,200 rpm, 40 kg, 450ºF, 2 hrs, M-50 Steel	1.30 mmMax	0.53 mm
		1,200 rpm, 40 kg, 450ºF, 2 hrs, 440C Steel		mm
High Temperature Performance	ASTM D-3336	450ºF, 20,000 rpm, 5 lbs.	500 hrs Min	1,230 hrs
		450ºF, 10,000 rpm, 5 lbs.	500 hrs Min	1,650 hrs
		400ºF, 10,000 rpm, 5 lbs.		2,400 hrs
Low Temperature Torque	ASTM D-1478	@ -100ºF, Starting	5,000 gm-cm Max	2,145 gm-cm
		Running	1,000 gm-cm Max	585 gm-cm
		@ -65ºF, Starting		460 gm-cm
		Running		38 gm-cm
Rubber Swell	FED-STD-791 Method 3603			
Buna "N"		168 hrs @ 158ºF		4.20 %
Buna "N"		72 hrs @ 275ºF		6.80%
Viton "B"		168 hrs @ 158ºF		0.80%
Viton "B"		168 hrs @ 300ºF		17.40%
Fluorosilicone		168 hrs @ 158ºF		5.80%
Fluorosilicone		72 hrs @ 300ºF		12.40%
Neoprene		168 hrs @ 158ºF		11.80%
Neoprene		72 hrs @ 300ºF		23.50%