

TRIBOLUBE[®]-26N

Fluorinated Specialty Grease

CHARACTERISTICS

Tribolube-26N is a wide temperature range, extreme pressure, antiwear, antirust, non-migrating grease. It has a low foreign and/or opaque particle count and a high resistance to microwave energy. This grease is capable of performing at temperatures as high as 450°F for long durations. The base material for Tribolube-26N, Tribolube-2N meets the performance requirements of MIL-PRF-83261.

APPLICATIONS

Aircraft actuators, gears, gimbal rings, oscillation bearings, antifriction and plain spherical bearings. It is especially suit-

able 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. Tribolube-26N is suitable for use in edge board and twist lock connections, twist pins and other applications involving electrical contacts and connectors where very high engagement forces are prevalent.

PERFORMANCE TEST	TEST METHOD	CONDITION	MIL-PRF-83261 REQUIREMENTS	TYPICAL VALUES
Temperature Range			-100°F to 450°F	-100°F to 450°F
NLGI No.				1
Unworked Penetration	ASTM D-1403	@ 77°F		295
Worked Penetration	ASTM D-1403	60 Strokes	270-350	330
Worked Stability	FED-STD-791 Method 313	100,000 Strokes	375 Max	320
Dropping Point	ASTM D-2265		450°F	460°F
Evaporation	ASTM D-2595	22 hrs @ 400°F		4.50%
		22 hrs @ 450°F	17% Max	15.00
Oil Separation	ASTM D-1742	30 hrs @ 400°F		13.40%
		30 hrs @ 450°F	25.0% Max	18.50%
Water Washout	ASTM D-1264	1 hr @ 105°F	20.0% Max	3.15%
Density				1.81 gm/cc
Bomb Oxidation	ASTM D-942	100 hrs @ 250°		-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, 90°F, 15 kg load		0.089
Load Wear Index	ASTM D-2596		90 Min	125.57
Last Non-seizure		Load/Wear Scar		80 kg/0.55 mm
Last Seizure		Load/Wear Scar		500 kg/2.74 mm
Weld Point		Load		620 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 167°F, 2 hrs, 52100 Steel	1.30 mm Max	1.09 mm
		1,200 rpm, 40 kg, 167°F, 1 hr, 52100 Steel		0.90 mm
		1,200 rpm, 40 kg, 450°F, 2 hrs, M-50 Steel	1.30 mmMax	0.78 mm
		1,200 rpm, 40 kg, 450°F, 2 hrs, 440C Steel		1.28 mm
Rust Preventative Properties	ASTMD-1743	48 hrs @ 125°F		1
High Temperature Performance	ASTMD-3336	450°F, 10,000 rpm, 5 lbs.	500 hrs Min	1,100 hrs
		400°F, 10,000 rpm, 5 lbs.		1,800 hrs
Low Temperature Torque	ASTM D-1478	@ -100°F, Starting	5,000 gm-cm Max	2,000 gm-cm
		Running	1,000 gm-cm Max	1,000 gm-cm
		@ -65°F, Starting		750 gm-cm
		Running		44 gm-cm
Rubber Swell	FED-STD-791 Method 3603			
Buna "N"		168 hrs @ 158°F		4.30 %
Buna "N"		72 hrs @ 275°F		6.90%
Viton "B"		168 hrs @ 158°F		0.85%
Viton "B"		168 hrs @ 300°F		17.60%
Fluorosilicone		168 hrs @ 158°F		5.95%
Fluorosilicone		72 hrs @ 300°F		12.55%
Neoprene		168 hrs @ 158°F		11.90%
Neoprene		72 hrs @ 300°F		23.65%