

Tribolube®-2N

High Performance Synthetic Grease

CHARACTERISTICS

Conforming to MIL-PRF-83261 requirements, the outstanding qualities of Tribolube®-2N are its wide operating temperature range, extreme pressure and antiwear characteristics, non-migratory nature, low foreign particle content, high resistance to microwave energy, and its compatibility with plastic and elastomeric seals.

APPLICATIONS

Aircraft actuators, gears, gimbal rings, oscillation bearings, antifriction and plain spherical bearings, miniature bearings, blower motors, motor generators, plastic clutches and gears, servo motors, microwave ovens, speedometer cables. Other applications include subfractional horsepower gear motors, camera drive systems, microswitch assemblies, reduction gears, and scientific instruments.

Available in the additional grades Tribolube®-2NMS and Tribolube®-2NWS, which are specially formulated with additional solid lubricants to enhance the already excellent extreme pressure and antiwear properties.

PERFORMANCE DESCRIPTION	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-73°C to 232°C (-100°F to 450°F)
NLGI Grade			1
Unworked penetration	ASTM D-217	25°C (77°F)	304
Worked penetration (x60)	ASTM D-217	25°C (77°F)	318
Worked Stability (x100,000)	ASTM D-217	25°C (77°F)	349
Evaporation loss	ASTM D-2595	22 hrs @ 204°C (400°F)	8.2%
		22 hrs @ 232°C (450°F)	10.6%
Oil Separation	ASTM D-6184	30 hrs @ 204°C (400°F)	13.4%
		30 hrs @ 232°C (450°F)	13.6%
Dropping point	ASTM D-2265	°C	200 °C
Low Temperature Torque	ASTM D-1478	-54°C (-65°F) <u>Starting:</u>	460 g-cm
		<u>Running:</u>	38 g-cm
		-73°C (-100°F) <u>Starting:</u>	2145 g-cm
		<u>Running:</u>	585 g-cm
Water Washout	ASTM D-1264	40°C (105°F)	2.2%
Oxidation Stability	ASTM D-0942	100 hrs, 121°C	1.5 psi drop
Wear Prevention (4 Ball Method)	ASTM D-2266	1200 rpm, 40 kg, 1 hr, 52100 steel, 75°C	1.0 mm
		1200 rpm, 40 kg, 1 hr, M-50 steel, 232°C	0.82 mm
Extreme Pressure Properties (4 Ball Method)	ASTM D-2596	Load Wear Index	> 160
		Weld Load	> 800 KgF
Specific Gravity	ASTM D-0891	25°C (77°F)	1.75
Dirt Count	FTM-791, Method 3005	10-74 microns	23/cc
		≥ 75 microns	11/cc
High Temperature Performance	ASTM D-3336	450°F, 20,000 rpm, 5 lbs	1,230 hours
		450°F, 10,000 rpm, 5 lbs	1,650 hours
		400°F, 10,000 rpm, 5 lbs	2,400 hours
Rubber Swell	FED-STD-791 Method 3603	Buna "N" 168 hrs @ 158°F	4.20%
		Buna "N" 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%

Disclaimer: Values given represent typical properties only and are not intended for use in preparing specifications. Please consult with an ALL applications engineer before writing specifications.

FOR A WORLD IN MOTION

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