

Synthetic Hydrocarbon Greases

CHARACTERISTICS

Tribolube-11 is a multipurpose synthetic grease which has very low start/run torque properties at -100°F, and provides excellent antiwear and high-load carrying capacity. It also has excellent anti-seize properties. Molybdenum disulfide solid lubricant is used in this grease to enhance the extreme pressure properties and help absorb shock loads. Conforms to the performance requirements of MIL-PRF-21164.

APPLICATIONS

Tribolube-11 is appropriate for use in heavily loaded sliding steel surfaces such as turbine engine accessory splines, and highly loaded antifriction bearings where a grease containing molybdenum disulfide is required.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-100 to 250°F
NLGI No.			2
Unworked Penetration	ASTM D-217	@77°F	278
Worked Penetration	ASTM D-217	60 strokes	286
Worked Stability	FED-STD-791 Method 313	100,000 strokes	271
Dropping Point	ASTM D-2265		>450°F
Evaporation	ASTM D-2595	22 hrs @ 210°F	0.90%
		22 hrs @ 300°F	1.40%
Oil Separation	FED-STD-791 Method 321	30 hrs @ 210°F	3.88%
		30 hrs @ 350°F	4.10%
Water Washout	ASTM D-1264	24 hrs @ 105°F	3.60%
Oxidation Stability	ASTM D-942	100 hrs @ 212°F	-8.0 psi
		500 hrs @ 212°F	-12.0 psi
Rust Preventative Properties	ASTM D-1743	48 hrs @ 125°F	1
Load Wear Index	ASTM D-2596		60.96
Last Non-seizure		Load/Wear Scar	80 kg/0.41mm
Last Seizure		Load/Wear Scar	315 kg/2.30 mm
Weld Point		Load	400 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 2 hrs @ 167°F, 52100 Steel	0.74 mm
		1,200 rpm, 40 kg, 2 hrs @ 350°F, 52100 Steel	1.12 mm
MoS ₂ Content	FED-STD-791 Method 3722		4.60%
High Temperature Performance	ASTM D-3336	250°F, 10,000 rpm, 5 lb	2,000 hrs +
		300°F, 10,000 rpm, 5 lb	800 hrs +
Low Temperature Torque	ASTM D-1478	@ -100°F, Starting	4,130 gm-cm
		running	735 gm-cm
Corrosion on Copper	ASTM D-4048	24 hrs @ 212°F	1a no Stain

Extending Component Life with Tribolube Synthetic Lubricants[®]