

# TRIBOLUBE®-81

## Synthetic Hydrocarbon Greases

### CHARACTERISTICS

**Tribolube-81** is a multipurpose synthetic grease developed for military aircraft high-speed turbine engine bearings( conforming to MIL-PRF-81322). It has excellent long life and antirust properties for service at temperatures ranging from -65°F to 350°F.

### APPLICATIONS

**Tribolube-81** is highly recommended for use in a wide range of industrial equipment. Use on O-rings, seals, gears, ball, roller, and plain spherical bearings.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-80 to 400°F
NLGI No.			2
Unworked Penetration	ASTM D-217	@77°F	270
Worked Penetration	ASTM D-217	60 strokes	285
Worked Stability	FED-STD-791 Method 313	100,000 strokes	340
Dropping Point	ASTM D-2265		276°C
Evaporation	ASTM D-2595	22 hrs @ 210°F	0.50%
		22 hrs @ 350°F	7.98%
Oil Separation	FED-STD-791 Method 321	30 hrs @ 212°F	0.80%
		30 hrs @ 350°F	4.90%
Water Washout	ASTM D-1264	24 hrs @ 105°F	7.00%
Oxidation Stability	ASTM D-942	100 hrs @ 212°F	-2.5 psi
		500 hrs @ 212°F	-9.0 psi
Dirt Count	FED-STD-791 Method 3005	25-74 Microns	40/cc
		over 75 Microns	0/cc
Rubber Swell	FED-STD-791 Method 3603	"L" stock 168 hrs @ 158°F	4.0%
Rust Preventative Properties	ASTM D-1743	48 hrs @ 125°F	Pass
Load Wear Index	ASTM D-2596	@ 77°F	54.65
Last Non-seizure		Load/Wear Scar	100 kg/ 0.43mm
Last Seizure		Load/Wear Scar	160 kg/0.78 mm
Weld Point		Load	200 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 1 hr @ 167°F, 52100 Steel	0.5 mm
		1,200 rpm, 40 kg, 1 hr @ 350°F, 52100 Steel	0.8 mm
Coef. of Friction		1,200 rpm, 90°F 15 kg Load	0.09
Gear Wear	FED-STD-791 Method 335	1,000 Cycles 5 lb Load	0.68 mg
		1,000 Cycles 10 lb Load	1.60 mg
High Temperature Performance	ASTM D-3336	300°F, 10,000 rpm, 50 lb	2,500 hrs +
		350°F, 10,000 rpm, 50 lb	525 hrs
		350°F, 10,000 rpm, 5 lb	1,000 hrs +
		400°F, 10,000 rpm, 5 lb	264 hrs
Low Temperature Torque	ASTM D-1478	@ -65°F, Starting	3,040 g-cm
		running	410 g-cm
Corrosion on Copper	ASTM D-4048	24 hrs @ 212°F	1B