

TRIBOLUBE[®]-66

Fluorinated Polyether Greases

CHARACTERISTICS

Tribolube-66 is intended for use in mild to high pressure systems where nonreactive with LOX and GOX is required, strong acids, oxidizers, fuels, and solvents is required. **Tribolube-66** is qualified to MIL-PRF-27617, Type 1. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions.

APPLICATIONS

This grease is suitable for scuba use as well in small and large diameter ball, roller, needle, and plain bearings, threads, valves, gears, contacts, splines, ball screws, and screw actuators and as a anti-seize thread compound. It is compatible with most elastomers and plastic seals, gaskets and O-rings.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-65° to 300°F
NLGI Number			1
Unworked Penetration	ASTM D-1403	@ 77°F	307
Worked Penetration	ASTM D-1403	60 Strokes	313
Oil Separation	FED-STD-791 Method 321	30 hrs @ 212°F	3.1%
		30 hrs @ 300°F	6.2%
Evaporation	ASTM D-2595	22 hrs @ 300°F	11.2%
Low Temperature Torque	ASTM D-1478	@ -65°F, starting	5,070 gm-cm
		60 min running	1,625 gm-cm
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1b
Load Wear Index	ASTM D-2596		97.7
Last Non-seizure		Load/Wear Scar	40 kg/0.33mm
Last seizure		Load/Wear Scar	315 kg/0.92mm
Weld Point		Load	400 kg
Steel-on-Steel Wear	ASTM D-2266	1200 rpm, 40 kg, 1 hrs @ 167°F, 52100 steel	1.16 mm
High Temperature Performance	ASTM D-3336	10,000 rpm @ 400°F, 5 lb.load	hrs
Film Stability & Steel Corrosion	Mil-G-27617D	168 hrs @ 212°F	Pass
Water Washout	ASTM D-1264	1 hrs @ 105°F	0.8%
Resistance to Aqueous Solution	FED-STD-791 Method 5415	168 hrs @ 77°F	Pass
LOX Impact Sensitivity	ASTM D-2512	20 impacts from 1,100 mm	No Reaction
Fuel Solubility & Fuel Resistance	FED-STD-791 Method 5414	@ 77°F	0.20%
		8 hrs @ 77°F	Pass
Bomb Oxidation	ASTM D-942	100 hrs @ 250°F	0 psi