

# TRIBOLUBE<sup>®</sup>-16MS

## Fluorinated Polyether Greases

### CHARACTERISTICS

Tribolube-16MS is a wide temperature range grease especially useful in vacuum and other systems where nonreactivity with chemicals, strong acids and oxidizers, fuels, and solvents is required. 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 in applications including small and large diameter ball, roller, needle, and plain bearings, electrical contacts, threads, valves, gears, contacts, splines, ball screws, and screw actuators. It is compatible with most elastomers and plastic seals, gaskets and O-rings.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-45° to 400°F
NLGI Number			2
Unworked Penetration	ASTM D-1403	@ 77°F	299
Worked Penetration	ASTM D-1403	60 Strokes	300
Oil Separation	FED-STD-791 Method 321	30 hrs @ 212°F	2.1%
		30 hrs @ 400°F	8.85%
Evaporation	ASTM D-2595	22 hrs @ 350°F	0.52%
		22 hrs @ 400°F	0.84%
Low Temperature Torque	ASTM D-1478	@ -20°F, starting	423 gm-cm
		60 min running	163 gm-cm
		@ -30°F, Starting	5,785 gm-cm
		60 min running	2,405 gm-cm
Copper Corrosion	FED-STD-791 Method 5309	24 hrs @ 212°F	1b - 2a
Load Wear Index	ASTM D-2596		190.29
Last Non-seizure		Load/Wear Scar	100 kg
Last seizure		Load/Wear Scar	
Weld Point		Load	+800 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 1 hr @ 167°F, 52100 steel	1.05 mm
		1,200 rpm, 40 kg, 1 hr @ 400°F, 52100 steel	1.13 mm
High Temperature Performance	ASTM D-3336	20,000 rpm @ 400°F, 5 lb. load	>600 hrs
		10,000 rpm @ 400°F, 5 lb. load	>2,000 hrs
		10,000 rpm @ 425°F, 5 lb. load	>2,000 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 Stability Fuel Resistance	FED-STD-791 Method 5414	@ 77°F	0.20%
		8 hrs @ 77°F	Pass
MoS <sub>2</sub> Content	FED-STD-791 METHOD 3722	By Weight	5.0%