TIOLUBE MZ-77
SOLID FILM LUBRICANT
MEETS "REACH" MATERIAL REQUIREMENTS

Tiodize newly developed solid film lubricant was formulated to meet the changing and demanding requirements of the "REACH" program. Years of experience and competent research and production staff permitted it's development.

MEETS SPECIFICATIONS:
- No Antimony Trioxide
- No Lead or Lead Compounds
- No Metallics
- AS 6449 POTABLE WATER
- AS5272 TYPE I & TYPE II
- MIL-L-46010
- MIL-L-8937

PHYSICAL PROPERTIES
Color / Appearance: Grey/Black
Lubricative Pigment: Molybdenum Disulfide
Operative Temperature: -65° F to 550° F
Salt Spray: ASTM B117 = 100 hours (Passes)
(.0005 in. Coating Thickness)
Coverage: 800 sq. ft. Per Gallon @ 0.0005 Thickness
Recommended Cure: Air dry 30 minutes, then bake at 400° F one hour
Recommended Thickness: 0.0002 to 0.0005 inches
Shelf Life (Bulk): One Year

ENDURANCE LIFE
PIN & V- FALEX BLOCKTESTER
PIN: SAE 3135, RB 87-90
Pretreatment: Block AISI-C1137, RC 20-24
Load: Grit blast using 220 Aluminum Oxide
4500 lb. Gage/1000 lb. Load
Speed: 290RPM
Wear Life: Greater than 420 minutes
(Steel vs. Steel)

FLUID RESISTANCE
1. Anti-Icing Fluid  MIL-A-8243  PASS
2. Reagent Water  ASTM D1193, Type III  PASS
3. Cleaning Compound, Solvent  MIL-C-372  PASS
4. Substitute Ocean Water  ASTM D 1141  PASS
5. Hydraulic Fluid, Synthetic Base  MIL-H-46170  PASS
6. Turbine Fuel, Kerosene Type  MIL-DTL-83133, JP-8  PASS
7. Lubricating Oil, Aircraft Turbine  MIL-PRF-23699  PASS
8. Damping Fluid, Silicone Base  VV-D-1078  PASS
9. Lubricant, Semi-Fluid  MIL-L-46000  PASS
10. Lubricant, Cleaner, Preservative  MIL-PRF-83460  PASS
11. Lubricating Oil, Low Temp.  MIL-L-14107  PASS
12. Lubricant, All Weather  MIL-PRF-85336  PASS

LFW-1
BLOCK & RING
Oscillatory Wear Life:
5 Fretting Wear
Titanium Ring and Block.
21,500 Cycles on LFW-1 Tester @ 98KSI
(510 lbs.) Load