



TIODIZE®

TECHNICAL DATA

TIOLUBE®
460

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PRODUCT DATA ON TIOLUBE

460

HEAT CURE, SOLID FILM LUBRICANT

TIOLUBE 460: is a low friction, heat cure, corrosion resistant, solid film lubricant.

TIOLUBE 460 MEETS: MIL-L-46010E, Type I and Type II, AS 5272 Type I & II, MIL-L-8937 and AS 1701, Class I.

TIOLUBE 460: Designed to lubricate critical parts such as:

Fasteners	Military Equipment
Hydraulic Fittings	Weapons
Bearings	Splines, Shafts
Gears	Nuts & Bolts
Marine Hardware	Automotive

Through **Tiodize** research, new solid film lubricants are formulated to meet the changing and demanding requirements of Industry. Years of experience and a competent research and production staff permit **Tiodize** to solve a wide array of lubrication problems. Our continuous research effort lets us provide our customers with improved products and processes, as well as up-to-date technical literature.

TIOLUBE 460 can be purchased in bulk by asking for: Quarts, Gallons and 5 Gallon Cans.

PIN & V- FALEX BLOCK TESTER

PIN: SAE 3135, Rb 87-90
BLOCK: AISI-C1137, Rc 20-24

PRETREATMENT: Sandblast using 220 Grit
Aluminum Oxide and Phosphate per ASTM D2625

SPEED: 290 RPM
LOAD: 4500 lb. Gage

ENDURANCE (WEAR LIFE):

1000 lb load

450 Minutes: When lubricant is cured at 400°F for one hour.

LOAD CARRYING CAPACITY

2,500 LB

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-63460	PASS
11. Lubricating Oil, Low Temp.	MIL-L-14107	PASS
12. Lubricant, All Weather	MIL-PRF-85336	PASS

PHYSICAL PROPERTIES 460

<u>Color/Appearance:</u>	Grey/Black
<u>Lubricative Pigment:</u>	Molybdenum Disulfide (MoS ₂), no graphite metallics or lead.
<u>Solvent:</u>	2 Butanone
<u>Operating Temperature:</u>	-400°F to 650°F
<u>Flash Point</u>	35°F (as delivered & before cure)
<u>Salt Spray:</u>	ASTM B117 = 100 hours (0.0005 in. coating thickness)
<u>Coverage:</u>	800 sq. ft. per gallon @ 0.0005 thickness
<u>Recommended Cure:</u>	Air dry 30 minutes, then 400°F for one hour
<u>Recommended Thickness:</u>	0.0002" to 0.0005"
<u>Shelf Life (Bulk):</u>	One Year