



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:

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|--------------------|--------------------|
| 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

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|--------------------------------------|----------------------|------|
| 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

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|-------------------------------|---|
| <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 |