PRODUCT DATA ON TIOLUBE® 20/20®

ENVIRONMENTALLY SAFE, LOW VOC, WATER BASE, CORROSION RESISTANT, HEAT CURE, SOLID FILM LUBRICANT 

NON-FLAMMABLE – NO METALLICS – NO HEAVY METALS

QUALIFIED TO: MIL-PRF-46010G, Qualification number: M-6025, TACOM
It also meets MIL-L-8937, AS 5272 Type III and AS1701 Class I & II along with the new Federal, State and local environmental regulations.

TIOLUBE 20/20: Designed to lubricate critical parts such as:

- Fasteners
- Hydraulic Fittings
- Bearings
- Gears
- Military Equipment
- Weapons
- Splines, Shafts
- Nuts & Bolts

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 20/20 can be purchased in bulk by asking for:
Quarts, Gallons and 5 Gallon Cans.
**FLUID RESISTANCE – TIOLUBE® 20/20®**

1. Anti Icing Fluid  
   MIL-A-8243  
   PASS

2. Cleaning Compound, Solvent  
   MIL-C-372  
   PASS

3. Reagent Water  
   ASTM D1193, Type III  
   PASS

4. Substitute Ocean Water  
   ASTM D1141  
   PASS

5. Hydraulic Fluid, Synthetic Base  
   MIL-H-46170  
   PASS

6. Turbine Fuel, Kerosene Type  
   MIL-DTL-83133, JP-8  
   PASS

7. Lubricating Oil, Synthetic Base  
   MIL-PRF-23699  
   PASS

8. Damping Fluid, Silicone Base  
   VV-D-1078  
   PASS

   MIL-L-14107  
   PASS

10. Lubricant, Semi-Fluid  
    MIL-L-46000  
    PASS

11. Lubricant, Cleaner, Preservative  
    MIL-PRF-63460  
    PASS

12. Lubricant, All Weather  
    MIL-PRF-85336  
    PASS

**PHYSICAL PROPERTIES 20/20**

- **VOC Content:** Less than 42 grams/liter
- **Color/Appearance:** Grey/Black
- **Lubricative Pigment:** Molybdenum Disulfide (MoS₂), no graphite, metallics or lead.
- **Solvent:** D. I. Water
- **Operating Temperature:** 400°F continuously, 500°F intermittent
- **Salt Spray:** ASTM B117 = 200 hours (0.001 in. coating thickness)
- **Coverage:** 1500 sq. ft. per gallon @ 0.0005 thickness
- **Cure Cycle:** (Mil-PRF-46010) Air dry for at least 30 minutes or Flash cure at 65°C to 70°C for 10 to 30 minutes, Then bake at 204 ± 15°C for at least 1 hour. or Bake at 150 ± 15°C for at least 2 hours.

*The Cure Cycles are based on the “Part” Temperature not the “Oven” Temperature*

- **Recommended Thickness:** 0.0002” to 0.001”
- **Shelf Life (Bulk):** One Year from the Date of Manufacture