



LOX-8 Lubricant is a PCTFE/PTFE lubricant engineered to work with aggressive chemicals plus industrial gases, oxygen, and cryogenic liquids. It provides superior lubrication performance in environments where other lubricants won't survive. LOX-8 Lubricant NLGI 00 – MIL-PRF-27617G.

- Fluorocarbon dispersion chemistry
- Oxygen-safe
- Available in NLGI 00 and NLGI 2
- Material stable from cryogenic temperatures to +287°C (+550°F)
- Chemically inert
- Anti-galling, anti-seize, anti-corrosive
- VOC-free, silicone-free, hydrocarbon-free
- Insidiously wets to threads
- Non-migrating, non-hardening
- Formulated for wet and dry conditions
- Super hydrophobic
- Compatible with today's engineered plastics and rubbers.
- Non-toxic, solvent-free, non-hazardous, non-flammable, VOC-free



Ball valves and O-rings
Pumps and regulators
Flange gaskets
Oxygen service bearings
Assembly lubricant for
stainless steel nuts and bolts

Roller, plain, thrust and wheel bearings
Gears
Electric motors
Presses
Winches and bushings

Chassis lubrication
Universal joints, ball joints, tie-rod ends
Steering knuckles

LOX-8 Lubricant is a very safe, solvent-free product. Not classified as hazardous according to OSHA 29 CFR 1910.1200 and WHMIS. Not hazardous under the consumer product safety regulations. See Safety Data Sheet for additional information.

Always keep unused product in original container, tightly closed. Store in a cool, dry ventilated area. Avoid freezing and excessive heat during storage and shipping. DOT-classified as non-hazardous, can be shipped by air with no shipping restrictions. See Safety Data Sheet for additional information.



TECHNICAL DATA SHEET LOX-8[®] Lubricant Fluorocarbon Lubricant



- NASA-tested (ASTM G72-82 and ASTM G86)
- NSF-approved for food processing areas: NLGI00 – H2
- BAM-tested
- WHA high pressure oxygen tested
- Praxair GS-38 approved
- Chlorine Institute (Pamphlet 164)
- MIL-PRF-27617G (NLGI 00)
- IMDS Registered



| Test | Rating | |
|---------------------------------------|--|--|
| | NLGI 00 | NLGI 2 |
| NLGI | NLGI 00 | NLGI 2 |
| Color/Odor | Opaque, light green; no odor | |
| Texture | Paste: smooth, free of lumps | |
| Oil Separation ASTM D1742 | | 24 hrs @ 25°C (77°F) and .25 PSI, % = 57.4 |
| Flammability Flash Point | None None | |
| Material Stable Temperature Range | Cryogenic temperatures to +287°C (+550°F) | |
| Estimated Useful Temperature Range | -33°C to +260°C (-36°F to +500°F) | |
| VOC Content | 0% | |
| Melting Dropping Point | +260°C (+500°F) | |

| Test | Rating | |
|--|--|--|
| | NLGI 00 | NLGI 2 |
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| NSF Approved | H2 | — |
| Made in the USA | Yes | |
| ASTM G72 (2015) Ref ISO 21020, Steady- state oxygen service | AIT: 450C corresponds to 345 bar (5004 psi) | AIT: 440C corresponds to 345 bar (5004 psi) |
| ASTM G86 Gaseous Oxygen Impact test; 3015 psi 7 72 ft-lbf; 20 samples | 0 Reactions | |
| BAM oxygen gaseous tested at 60c | 60 bar | 50 bar |
| BAM oxygen liquid | No limitations | |
| Praxair GS-38 - Oxygen Systems | Approved | |
| Chlorine Institute Member Approved | Pamphlet 164 | |

| Mechanical Assembly - Torque K-Factor | | |
|--|---------|--------|
| Hardware | NLGI 00 | NLGI 2 |
| 3/8" Zinc Plated | 0.184 | 0.177 |
| 1/2" Zinc Plated | 0.156 | 0.149 |
| 1/2" Stainless Steel (Hex Nut) | 0.193 | 0.195 |
| 1/2" Stainless Steel (Nylon Insert Nut) | 0.183 | 0.173 |
| | | |

| Lubrication Properties | | |
|---|----------------------------|----------------------------|
| Test | NLGI 00 | NLGI 2 |
| 4-Ball Wear Test (ASTM D2266) 40kg, 1200rpm, 167f, 1 hour; Ave wear scan diameter | 0.95 mm (0.037 in) | 0.81 mm (0.031 in) |
| Oxidation Stability (ASTM D942) pressure drop psi | 100 Hours: 0.0 psi drop | 100 Hours: 1.0 psi drop |
| | 400 Hours: 0.5 psi drop | 400 Hours: 1.0 psi drop |
| MIL-PRF-27617G | TYPE: I | — |
| Copper Corrosion Test (ASTM D130) 100C, 3hrs | 1B | |



Apply

- Clean surface from any dirt or oil.
- Liberally apply LOX-8 Lubricant.
- Wipe off excess material.
- For re-application, wipe surfaces with lint-free cloth. Wipe with Acetone as needed. Okay to re-apply over existing LOX-8 Lubricant.

| Part No. NLGI 00 | Part No. NLGI 2 | Size | Container | Case Quantity |
|---------------------|--------------------|-----------------------|-------------------------------|------------------|
| 9700018 | 9770001 | 25 g (Net Wt 0.88 oz) | Jar | 12 |
| 9712152 | 9770004 | 100 g (Net Wt 3.5 oz) | Jar | 12 |
| 9712154 | 9770008 | 100 g (Net Wt 3.5 oz) | Plunger | 12 |
| 9722153 | 9770012 | 453 g (Net Wt 16 oz) | Jar | 6 |
| 9755555 | 9755555 | | Dispensing Gun for Plunger | 1 |

