



Product Description

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.

Features and Benefits

- 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



Applications

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> ▪ Ball valves and O-rings ▪ Pumps and regulators § Oxygen service bearings § Flange gaskets § Assembly lubricant for stainless steel nuts and bolts | <ul style="list-style-type: none"> ▪ Roller, plain, thrust and wheel bearings ▪ Gears § Electric motors § Presses § Winches and bushings | <ul style="list-style-type: none"> ▪ Chassis lubrication ▪ Universal joints, ball joints, and tie-rod ends ▪ Steering knuckles |
|---|---|---|

Health and Safety

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.

Storage, Shipping and Handling

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



Specifications and Approvals

- **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
NLGI	NLGI 00	NLGI 2
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	



How to Apply

- **Clean surface from any dirt or oil.**
- **Liberaly 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.**

Packaging

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

