

Product Description

LOX-8 Thread Sealant is a PCTFE/PTFE thread sealant engineered to work with industrial gases, cryogenic liquids, and aggressive chemicals. Providing superior performance, LOX-8 Thread Sealant allows for easy assembly and disassembly, prevents stainless steel galling, and fills thread gaps to prevent liquid and gaseous leaks.

Features and Benefits

- PCTFE/PTFE dispersion formulation
- Stable from cryogenic temperatures to +287°C (+550°F)
- Chemically inert
- Anti-galling, anti-seize, anti-corrosive
- Prevents pipe damage on stainless steel, steel, and plastic
- Silicone-free
- Insidiously wets to threads
- Non-migrating, non-hardening
- Seals all sizes and types of threaded joints
- Permits repetitive assembly and disassembly
- Eliminates challenges associated with tape
- Formulated for wet and dry conditions
- Super hydrophobic
- Hydrocarbon free
- Non-toxic, solvent-free, non-hazardous, odorless, non-flammable, VOC-free



Applications

- Natural gas applications
- Cryogenic applications
- Welding and industrial gases
- Gasoline, diesel, kerosene fuel systems
- Chlorine and powerful oxidizers
- Oxygen systems
- Valves in bottled gases
- Water and wastewater processing
- Ammonia and freon refrigeration service
- Paint systems
- Wafer fab
- Offshore drilling rigs
- Coal power plants
- Oil-based systems
- Aerospace
- Medical and nuclear
- Chemical processing

LOX-8 Thread Sealant 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.



Specifications and Approvals

- NASA-tested (ASTM G72-82 and ASTM G86)
- NSF-approved for food processing areas
- BAM-tested
- WHA high pressure oxygen tested
- NSN 8030-00-829-3982
- Praxair GS-38 approved
- Chlorine Institute (Pamphlet 164)



Test	Rating
Appearance	Opaque/Light green
Texture	Paste: smooth, free of lumps
NLGI	2
Oil Separation ASTM D1742	0.05%
Flammability Flash Point	Non-flammable None
Service Temperature Range	Cryogenics to +287°C (+550°F)
VOC Content	0%
Color/Odor	Green/Odorless
Melting Dropping Point	+260°C (+500 °F)

Test	Rating
Relative Density	> 1.9
Vapor Pressure	< 0.01 mm Hg
ASTM G72 (2015) Ref ISO 21020 Steady-state oxygen service	AIT: 440 C 345 bar (5004 psig)
BAM oxygen liquid	No limitations
BAM oxygen gaseous tested at 60c	50 bar (725 psig)
ASTM G86 Gaseous Oxygen Impact test 3015 psi & 72 ft- lbs (98 J) impact	Samples: 20 Number Reactions: 0
Praxair GS-38	Approved
Chlorine Institute	Pamphlet 164
NSF Approved	S2

How to Apply

- Clean the male and female threads of any dirt or oil.
- Starting one to two threads back from the end of the male fitting, use your finger to liberally apply LOX-8 Thread Sealant to fill the threads.
- Fit and torque the male and female pieces together. Hand tighten or use standard pipe tools to torque.
- Wipe off excess sealant.
- Be careful not to over-tighten fittings, especially plastic, pvc, or cast iron, as the fittings may crack.
- For re-application, wipe surfaces with lint-free cloth. Acetone wipe as needed. Okay to re-apply over existing LOX-8 Thread Sealant.

On threaded joints 3/4" or larger, Fluoramics suggests using LOX-8 Thread Sealant and Full Density PTFE tape:

- Clean the male and female threads of any dirt or oil.
- Starting two threads back from the end of the male fitting, apply two wraps of a Full-Density PTFE Tape in the direction of thread rotation, maintaining tension on the tape while wrapping.
- Apply the thread sealant over the tape as instructed above.



TECHNICAL DATA SHEET
LOX-8® Thread Sealant
 PTFE Thread Sealant



Packaging

Part No.	Size	Container	Case Quantity
9700017	25 g (Net Wt. 0.88 oz)	Jar	12
9712151	100 g (Net Wt. 3.5 oz)	Jar	12
9712153	100 g (Net Wt. 3.5 oz)	Plunger	12
9722152	453 g (Net Wt. 16 oz)	Jar	6
9755555	----	Dispensing Gun for Plunger	1



LOX-8® THREAD SEALANT IS COMPATIBLE WITH THESE AND OTHER SIMILAR AGGRESSIVE CHEMICALS:

- | | | |
|----------------------|-------------------------|------------------------|
| Acetylene | Dimethyl Ether | Nitrogen Trifluoride |
| Aluminum Chloride | Ethylene Oxide | Oleum |
| Ammonia | Fluorine | Oxygen |
| Ammonium Hydroxide | Fuming Nitric Oxide | Ozone |
| Ammonium Nitrate | Gasoline | Peracetic Acid |
| Ammonium Perchlorate | Helium | Phosphoric Acid |
| Anhydrous Ammonia | Hydrochloric Acid | Potassium Perchlorate |
| Antimony Trichloride | Hydrogen | Potassium Persulfate |
| Argon | Hydrogen Bromide | Propane |
| Bicarbonate Acid | Hydrogen Fluoride | Propylene Oxide |
| Boron Trichloride | Hydrogen Peroxide | Silane |
| Boron Trifluoride | Hydrogen Sulfide | Silicone Tetrachloride |
| Bromine | Hydroiodic Acid | Sodium Hydroxide |
| Bromine Trifluoride | Hydrofluorosilicic Acid | Sodium Hypochlorite |
| Calcium Hypochlorite | Hypochlorite solutions | Sodium Perchlorate |
| Carbon Dioxide | Iodine | Sodium Peroxide |
| Chlorine | Kerosene | Sulfur Dioxide |
| Chlorine Trifluoride | Methane | Sulfur Trioxide |
| Chlorosilanes | Muriatic Acid | Sulfuric Acid |
| Chlorosulfonic Acid | Natural Gas | Thionyl Chloride |
| Chromic Acid | Nitric Acid | Titanium Tetrachloride |
| Chromyl Nitrate | Nitrogen | Uranium Hexafluoride |
| Diesel Fuel | Nitrogen Oxides | Zinc Orthophosphate |

LOX-8® IS COMPATIBLE WITH THE FOLLOWING PIPES AND THREADS:

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|---------------------------|-----------------------|--------------------------------|
| All plastics | Glass – ceramics Iron | PTFE type plastics |
| Aluminum | Kynar PVDF | Rigid PVC/CPVC |
| Brass | Lead | Stainless steel |
| Bronze | Neoprene | Steel |
| Cured epoxies | Polycarbonates | Urethanes |
| EPDM | Polyamides | Viton™ formulated plastic Zinc |
| Ethylene propylene rubber | Polyvinyl alcohol | |
| Fluoro-silicones | | |

Note: Not for use with pure silicone materials.