Fluoramics

TECHNICAL DATA SHEET

LOX-8® Thread Sealant

Thread Sealant

Product Description

LOX-8 Thread Sealant is a 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

- Stable from cryogenic temperatures to +287°C (+550°F)
- Chemically inert
- Oxygen tested and approved
- Anti-galling, anti-seize, anti-corrosive
- Silicone-free
- Insidiously wets to threads
- Non-migrating, non-hardening
- Formulated for wet and dry conditions
- Super-hydrophobic
- Hydrocarbon free
- Non-toxic, solvent-free, non-hazardous, odorless, non-flammable, VOC-free

Benefits

- Prevents pipe damage on stainless steel, steel, and plastic
- Seals all sizes and types of threaded joints
- Permits repetitive assembly and disassembly
- Eliminates challenges associated with tape

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

Health and Safety

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 the Safety Data Sheet for additional information.

Storage, Shipping and Handling

Always keep the unused product in the 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 the Safety Data Sheet for additional information.

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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 (Members Recommended Pamphlet 164)

Test	Rating
Color/Odor	Green / Odorless
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%
PFAS - PFOA	0 parts per million
PFAS -PFOS	0 parts per million
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	Members Recommended 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 apply LOX-8 Thread Sealant liberally 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 ¾" or larger, Fluoramics suggests using LOX-8 Thread Sealant and Full Density Thread Seal 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 the Full-Density Tape in the direction of thread rotation, maintaining tension on the tape while wrapping.
- Apply the thread sealant over the tape as instructed above.

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

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

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

Note: Not for use with pure silicone materials.