



Product Description

LOX-8 Full Density Thread Seal Tape is a multi-purpose and oxygen-approved tape suitable for use in all situations, including cryogenic assemblies. May be used alone or with Fluoramics' pipe sealants.

Features and Benefits

- Full Density, minimal usage, repeatable results
- Service temperature range -240°C (-400°F) to +287°C (+550°F)
- High pressure applications
- Anti-galling and anti-seizing
- Silicone-free
- Seals all sizes and types of threaded joints
- VOC-free
- Non-toxic, non-hazardous, approved for food service area
- Oxygen tested
- Produced from 100% U.S.-made PFOA/PFOS-free resin



Applications

- Natural gas applications
- Cryogenic applications
- Welding and industrial gases
- Gasoline, diesel, kerosene fuel systems
- Chlorine (liquid and gaseous) and powerful oxidizers
 - Oxygen systems (liquid and gaseous)
 - 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 Full Density Thread Seal Tape is a very safe, solvent-free PFOA/PFOS-free product. Non-hazardous under the consumer product safety regulations OSHA 29 CFR 1910.1200 and WHMIS. See Safety Data Sheet for additional information.

Always keep unused product in original container. DOT-classified as non-hazardous, can be shipped by ground & air with no restrictions. See Safety Data Sheet for additional information.



TECHNICAL DATA SHEET

LOX-8®

Full Density Thread Seal Tape

Multi-Purpose – Oxygen Tested – Cryogenic Tape



Specifications and Approvals

- MIL-T-27730A
- A-A 58092
- ASTM G72 (High Pressure Oxygen)
- FDA approved for food use 21 CFR 177.1550
- **Chlorine Institute (Pamphlet 164)**

Test/Specification	Rating
Appearance	Light green
Texture	Tape: smooth
Relative Thickness Relative Density	0.0035" (0.0889 mm) 1.4 g/cm3
Chemically Inert Non-Toxic	Yes Yes
Flammability Flash Point	Non-flammable None
VOC Content	0%
PFAS - PFOA	0 parts per trillion
PFAS - PFOS	0 parts per trillion
Manufactured with EU Regulatory Compliant Resins	Yes

Test/Specification	Rating
FDA 21 CFR 177.1550 (food service area)	Yes
Chlorine Approved	Yes
Oxygen Tested ASTM G72 (2015) High Pressure Oxygen ISO 21020 - Steady-state oxygen service	Yes AIT: 472 C 345 bar (5004 psi)
Service Temperature Range	-240°C (-400°F) to +287°C (+550° F)
MIL-T-27730A	Yes
AA 58092	Yes
Made in USA	Yes
Shelf Life	Unlimited
Max Pressure Rating	+ 10,000 PSI / 689 Bar

How to Apply

- Clean the male and female threads of dirt or oil.
- Starting two threads back from the end of the male fitting, apply two wraps of LOX-8 Full Density Thread Seal Tape in the direction of thread rotation, maintaining tension on the tape while wrapping.
- For large or critical connections, apply thread sealant paste over the tape. See directions below.

When using LOX-8 Full Density Thread Seal Tape with LOX-8 Thread Sealant:

- Apply LOX-8 Full Density Thread Seal Tape as directed above.
- 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, as the fittings may crack.
- For reapplication, clean the male and female threads of dirt or oil.
 1. Use a brass or stainless-steel wire brush to clean off material on the threads
 2. Wipe down the threads using a lint-free cloth and acetone
 3. Re-assemble



Packaging

Part No.	Size
9010002	1/4" x 260"
9010003	1/4" x 520"
9010005	1/2" x 260"
9010008	1/2" x 1296"
9010010	3/4" x 520"
9010013	3/4" x 1296"



LOX-8[®] FULL DENSITY THREAD SEAL TAPE IS COMPATIBLE WITH THESE AND OTHER SIMILAR AGGRESSIVE CHEMICALS:

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

LOX-8[®] FULL DENSITY THREAD SEAL TAPE IS COMPATIBLE WITH THE FOLLOWING PIPES AND THREADS (PARTIAL LIST):

- | | | |
|---------------|------------------|-----------------|
| Aluminum | Glass – ceramics | Stainless steel |
| Brass | Iron | Steel |
| Bronze | Lead | Zinc |
| Cured epoxies | | |