



LOX-8[®] Thread Sealant & Grease

TECHNICAL DATA SHEET: LOX-8[®]

DESCRIPTION

LOX-8 Paste and **LOX-8 Grease**, PCTFE/PTFE pastes and greases, are used where oxygen or harsh chemicals such as chlorine or powerful oxidizers are present. Providing superior performance as a lubricant and sealant, LOX-8 is stable from -400° F to +550° F. LOX-8 is certified for use in gaseous and liquid oxygen.

Use LOX-8 Grease and LOX-8 Paste in environments where extended service life is important: medical, nuclear and other high-tech fields including chemical processing, industrial gases and other aggressive applications. Approved for use in food processing facilities. Fire resistant. MIL-PRF-27617G. NSN 8030-00-829-3982.

TYPICAL APPLICATIONS

Paste applications include:

- off-shore rigging
- oxygen and chlorine systems
- cryogenics
- waste-water processing
- welding gases
- stainless steel anti-galling

Grease applications include:

- greasing oxygen service bearings, valves, O-rings, pumps and regulators
- fire-resistant grease



TYPICAL PROPERTIES

LOX-8 is specifically formulated for wet and dry conditions. It is non-migrating, remaining where it is applied. LOX-8 is ideal where repetitive assembly and disassembly are required. It is non-flammable, non-toxic, non-hardening, and is anti-galling with stainless steel.

Available sizes for both LOX-8 Grease and LOX-8 Paste:

- 25 gram jar
- 100 gram jar
- 1 lb. jar
- 100 gram plunger*

* Applicator gun to fit plunger is also available.



APPLICATION DETAILS

LOX-8 is the only thread sealant that does it all.

Apply liberally to a clean, dry surface. Fit and torque the matching piece.

STORAGE/SHIPPING/HANDLING

No special handling required.

HEALTH & SAFETY

LOX-8 is a very safe solvent-free product. Wash hands after use. Keep product out of eyes.

Thread Sealants Tufoil[®] Technology HinderRUST Oxygen-Safe Greases & Pastes

LOX-8[®]

Thread Sealant & Grease

LOX-8 PASTE and GREASE ARE . . .

- Certified by NASA (ASTM G72-82) (ASTM G86)
- Certified by BAM
- Oxygen-compatible
- Anti-galling
- Anti-seizing
- Non-migrating
- Chemically Inert
- Waterproof
- Non-flammable
- Easy to apply
- Silicone free
- Hydrocarbon free
- Non-toxic
- Odorless

LOX-8 is compatible with many aggressive chemicals, including...

Acetylene	Hydrogen sulfide
Aluminum chloride	Hydroiodic acid
Ammonia	Hypochlorite solutions
Ammonium hydroxide	Iodine
Ammonium nitrate	Kerosene
Ammonium perchlorate	Muriatic acid
Anhydrous ammonia	Natural Gas
Antimony trichloride	Nitric acid
Argon	Nitrogen
Bicarbonate Acid	Nitrogen oxides (all)
Boron trichloride	Nitrogen trifluoride
Boron trifluoride	Oleum
Bromine	Oxygen (liquid & gaseous)
Bromine trifluoride (gaseous)	Phosphoric acid
Calcium hypochlorite	Potassium perchlorate
Carbon dioxide	Potassium persulfate
Chlorine	Propane
Chlorine trifluoride (gaseous)	Propylene oxide
Chlorosilanes	Silane
Chlorosulfonic acid	Silicone tetrachloride
Chromic acid	Sodium
Chromyl nitrate	Sodium hydroxide (all concentrations)
Ethylene oxide	Sodium peroxide
Fuming nitric oxide	Sulfur trioxide
Helium	Sulfuric acid
Hydrogen	Sulfur dioxide
Hydrogen bromide	Thionyl chloride
Helium	Titanium tetrachloride
Hydrochloric acid	Uranium hexafluoride
Hydrogen fluoride	Water
Hydrogen peroxide (all concentrations)	

The chemistries found in LOX-8 are compatible with the following elastomers and plastics:

Cured epoxies	Polyvinyl alcohol
EPDM	Rigid PVC
Ethylene propylene rubber	Rigid CPVC
Fluoro-silicones	Teflon type plastics
Neoprene	Urethanes
Polycarbonates	Viton type plastics
Polyamides	

Thread Sealants Tufoil[®] Technology HinderRUST Oxygen-Safe Greases & Pastes

Fluoramics, Inc.

Winona, MN • Made in the U.S.A. 



FORMULA-8[®]

PTFE Thread Sealant

TECHNICAL DATA SHEET: FORMULA-8[®]

DESCRIPTION

FORMULA-8 uses PTFE in a shear-sensitive white thixotropic paste to seal threaded joints with PTFE strings when torqued. The seals are formed over the entire thread length. Even fine threads in instrumentation systems are sealed effectively over the entire thread length. It won't deteriorate from -400°F to +500°F. It is stable in pressures up to 10,000 psi and in vacuums 10⁻³ torr. FORMULA-8 has been tested and certified for use in gaseous and liquid oxygen by NASA (ASTM G72-82 and ASTM G86) and also by BAM (German Federal Institute for Materials Testing). Formula-8 is approved for use in food processing facilities. NSN 8030-01-527-7193.

TYPICAL APPLICATIONS

Formula-8 seals threads in gas, liquid and vacuum service.

Use Formula-8 in:

- natural gas applications
- oxygen cylinders to eliminate leaks
- hydraulic systems
- fuel systems
- moderate vacuum service
- fine pipe threads
- oxygen systems
- valves in bottled gases

TYPICAL PROPERTIES

Appearance: white, light paste
Texture: smooth, light paste mixture, free of foreign matter

Available Sizes

- 3.5 oz. tube
- 15g tube
- 650 gram jar

APPLICATION DETAILS

Apply liberally to a clean, dry surface. Fit and torque the matching piece. Formula-8 works by being shear sensitive.

Formula-8 is used in applications involving gases (shop gases) such as...

- | | |
|----------------|----------------------------------------|
| Acetylene | Hydrogen |
| Carbon dioxide | Hydrogen peroxide (all concentrations) |
| Diesel fuel | Kerosene |
| Gasoline | Oxygen (liquid & gaseous) |
| Helium | Propane |

STORAGE/SHIPPING/HANDLING

Do not allow Formula-8 to freeze.

HEALTH & SAFETY

Formula-8 is a very safe solvent-free product. Wash hands after use. Keep product out of eyes.



Nonfood Compounds
P1



Thread Sealants Tufoil[®] Technology HinderRUST Oxygen-Safe Greases & Pastes



Fluoramics Full Density PTFE Tape

Multi-Purpose & Oxygen Approved

DESCRIPTION

Full Density PTFE Tape is a multi-purpose and oxygen-approved PTFE tape suitable for use in all situations. May be used alone or with an approved pipe sealant.

APPLICATIONS

Approved for use with Fluoramics Sealants

Air	Hydrocarbons	Propane
Bottled Gases	Large Diameter Piping	Refrigerants
Chlorine	Natural Gas	Solvents
Corrosive Chemicals	Oxygen	Sprinkler Systems
Hydraulic Lines	Potable Water	Steam

PROPERTIES

Approvals:	MIL-T-27730A A-A-58092
Oxygen Tested:	ASTM G72 (2015)
Appearance:	Light Green
Thickness:	0.0035"
Density:	Full Density 1.20 to 1.55 g/cm ³
Temperature Range:	-450° F to 700° F
Pressure Rating*:	10,000 psi general use* 5004 psi pure oxygen**
Shelf Life:	Indefinite
Ingredients:	99.5% PTFE



Made in the U.S.A.

**Pressure rating is relative to the torque and quality of the threads and the amount of tape and sealant used.*

***Maximum oxygen pressure limit guide only, can be used at pressure above this limit with justified Oxygen Fire Risk Analysis.*

APPLICATION DETAILS

Clean the male and female threads of any dirt or oil. Starting two threads back from the end of the fitting, apply two wraps of thread seal tape in the direction of thread rotation. Be sure to keep tension on the tape while wrapping.

Approved for use with Fluoramics LOX-8 and Formula 8.

For threads up to 1-1/2" in diameter, use 1/2" wide thread tape. For larger diameter pipe threads, use 3/4" wide thread tape.

Contact: information@fluoramics.com or call 1-800-922-0075.

PACKAGING

Fluoramics Full Density PTFE Tape is available in:

- 1/2" x 260" Part No: 9010005 20 per case
- 3/4" x 520" Part No: 9010010 20 per case

SHIPPING & HANDLING/ HEALTH AND SAFETY

No special handling required. DOT-classified as non-hazardous. See Material Safety Data Sheet (SDS).

Thread Sealants Tufoil® Technology HinderRUST Oxygen-Safe Greases & Pastes



Winona, MN · Made in the U.S.A.

OPTCO Ltd.
High Performance Products