

Poly-U-Thread Tape

Multi-Purpose PFAS-Free Thread Sealing Tape

POLY-U
Thread Tape



Product Description

LOX-8 Poly-U Thread Tape is made with polyether polyurethane, a versatile material that combines strength and flexibility. It is an effective PFAS -free solution for ensuring leak-proof connections in both residential and commercial plumbing systems. Use in plumbing, piping, air compressor applications, compressed gas valving and tanks, and other applications to ensure a tight fit. Suitable for metal and plastic fittings.

Features & Benefits

- PFAS-free
- Polyurethane meets USP Class VI & ISO 10993 standards
- FDA 175.105/FDA 175.320 Food Contact Compliant materials used
- FDA 21 CFR 175.300, CFR 176.170 Conditions B & D FDA compliant
- Flexible, durable, and water resistant
- Oxygen ASTM G-72 tested
- Diverse chemical compatibility
- Suitable for industrial applications and consumer use
- Service temperature range of -30°C (-22°F) to +135°C (+275°F)
- Seals all sizes and types of threaded joints
- No VOCs (stable and cured), silicone-free
- Non-toxic, non-hazardous, formulated with materials approved for food service & human contact
- U.S. Patent No. 12,624,778 B1



Applications

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| <ul style="list-style-type: none"> ▪ Aerospace ▪ Medical ▪ Automotive ▪ Consumer - Home ▪ Commercial - Industrial ▪ Nuclear radiation exposure ▪ Natural gas plumbing ▪ Welding and industrial gases ▪ Air compressors and lines ▪ Carbon dioxide feed lines | <ul style="list-style-type: none"> ▪ Oxygen feed lines ▪ Gasoline, diesel, kerosene fuel systems ▪ Chlorine (liquid) < 5% ▪ Chemical processing ▪ Paint systems ▪ Water systems ▪ Oxygen systems (see specification chart) ▪ Bottled gas valves & fittings | <ul style="list-style-type: none"> ▪ Water and wastewater processing ▪ Ammonia and most freon refrigeration service ▪ Wafer fab ▪ Coal & LNG power plants ▪ Oil-based systems |
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Health and Safety

Poly-U Thread Tape is very safe. Non-hazardous under the consumer product safety regulations OSHA 29 CFR 1910.1200 and WHMIS. See Safety Data Sheet for additional information.



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Storage, Shipping and Handling

DOT-classified as non-hazardous, can be shipped by ground & air with no restrictions. See Safety Data Sheet for additional information.

Specifications and Approvals

Test/Specification	Rating
Appearance	Clear
Total Thickness (without release liner)	0.0024" (0.06 mm)
Carrier Type	Polyether Polyurethane USP Plastic Class VI & ISO 10993 standards
Toxicity	Not toxic
FDA 21 CFR 175.300 (Film-Resinous and Polymeric Coatings)	
• Condition B – Boiling Water Sterilization	Pass – FDA Compliant
• Condition D – Hot Fill / Pasteurization	Pass – FDA Compliant
VOC Content	0% - none (cured & stable) Solvent free

Test/Specification	Rating
Oxygen Tested ASTM G72 (2015) High-Pressure Oxygen AIT	1500 PSI AIT: 193°C (379°F) 6000 PSI AIT: 171°C (340°F)
Continuous Service Temperature Condition	-30°C (-22°F) to +135°C (+275°F)
Performance under Radiation	Suitable but recommend testing
Max Pressure Rating	Not specified
FDA 21 CFR 176.170 (Tacky Surface – Laminated Adhesives)	
• Condition B – Boiling Water Sterilization	Pass – FDA Compliant
• Condition D – Hot Fill / Pasteurization	Pass – FDA Compliant
Made in USA	Yes

How to Apply

Poly-U-Thread Tape is protected with a paper liner that needs to be removed for installation.

Before installing, make sure the fitting is as clean and oil-free as possible.

- Pull tape from box and cut to length with a sharp blade or scissors. Poly-U is super stretchy so don't worry if your length is a little short.
- Create the tail. Starting 1" from the end, tear the tape to remove the paper liner and start a tail.
- Apply the tacky side of the tape tail to the pipe fitting and wrap in the correct direction. Tape should not unwind and will pull tight when assembled. Remove the remaining paper liner as you wrap.



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Packaging

Part No.	Size	Container	Case Quantity
9010040	1/4 in x 260 in	Box	24
9010042	1/2 in x 260 in	Box	24
9010044	1/2 in x 520 in	Box	24
9010045	3/4 in x 260 in	Box	24
9010046	3/4 in x 520 in	Box	24
9010050	1/2 in x 10 in	Bag – (6) 10" strips	TBD
9010052	1/4 in x 10 in	Bag – (6) 10" strips	TBD
9010054	3/4 in x 10 in	Bag – (6) 10" strips	TBD



Chemical Compatibility Chart

Compatibility											
S – Satisfactory I – Insufficient Data U – Unsatisfactory O – Compatible, see test data											
State @ 70f	Common Name	Poly urethane	State @ 70f	Common Name	Poly urethane	State @ 70f	Common Name	Poly urethane	State @ 70f	Common Name	Poly urethane
			Liquid	Grease	S	Gas	1-Butene	S	Gas	Acetylene	U
Liquid	Animal Fats	S	Liquid	Hydrochloric Acid	S	Gas	Air	S	Gas	Chlorine	U
Liquid	Antifreeze	S	Liquid	Hydrogen Peroxide (all concentrations)	S	Gas	Argon	S	Gas	Nitrous Oxide	U
Liquid	Boric Acid	S	Liquid	Kerosene	S	Gas	Butane	S	Gas	Oxyfume® Mixture	U
Liquid	Borax	S	Liquid	Mineral Oil	S	Gas	Carbon Dioxide	S	Liquid	Acetone	U
Liquid	Calcium Chloride	S	Liquid	Motor Oil	S	Gas	Carbon Monoxide	S			
Liquid	Calcium Hydroxide	S	Liquid	Phosphoric Acid 20 - 70%	S	Gas	Helium	S	Liquid	Ammonia, Anhydrous	U
Liquid	Castor Oil	S	Liquid	Sodium Hypochlorite 1%	S	Gas	Hydrogen	S	Liquid	Ammonium Nitrate	U
Liquid	Chlorine (liquid 1000ppm)	S	Liquid	Sodium Hydroxide (up to 40%)	S	Gas	Isobutane	S	Liquid	Ammonium Perchlorate	U
Liquid	Chlorine (liquid 5%)	S (slight discolorati	Liquid	Stearic Acid	S	Gas	Medifume™ Mixture	S	Liquid	Benzene	U
Liquid	Citric Acid	S	Liquid	Sulfuric Acid 10 - 50%	S	Gas	Methane (BioGas)	S	Liquid	Calcium Hypochlorite	U
Liquid	Diesel Fuel	S				Gas	Natural Gas (LNG)	S	Liquid	Chlorine Gas	U
Liquid	Ethanol (95%)	S				Gas	Nitrogen	S	Liquid	Chlorosulfonic Acid	U
Liquid	Ethylene Glycol	S				Gas	Oxygen	S,O	Liquid	Chromic Acid	U
Liquid	Gasoline	S				Gas	Ozone	S			
Liquid	Glacial Acidic Acid	S				Gas	Propane (liquid & gaseous)	S			
Liquid	Glycerin	S				Gas	Sulfur Dioxide	S			

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