

For critical
Oxygen Service
Sealing Applications

BLUE MONSTER®

Zero V.O.C.s

OXY CLUTCH

OXY-CLUTCH PTFE Pipe Thread
Sealant for Gaseous and
Liquid Oxygen Service



Blue Monster OXY-CLUTCH is a specially-formulated thread sealant for high-pressure, pure oxygen piping systems.

This PTFE enriched pipe thread compound provides superior sealing characteristics, is inert, noncorrosive and nonflammable. It contains no silicone, hydrocarbons and no VOCs!

Every batch of OXY-CLUTCH is tested for Autoignition Temperature according to the stringent standard of ASTM G-72. A typical range is 824°F to 860°F (440°C to 460°C). Each container shows the Batch Number and Autoignition Temperature for traceability.

Technical Information

OXY-CLUTCH thread sealant is considered oxygen-compatible for its intended use with gaseous and liquid oxygen. This product exhibits an Autogeneous Ignition Temperature in excess of 800°F (427°C). Experience has shown that ignition and promoted combustion events for material exhibiting compatibility data properties in this range are unlikely, however, all application instructions must be followed.

Cat #	Size	Case Pack	Weight
70856	4 ounces / 113 grams	1	.5 lbs (.23 kg)

For Material Safety Data Sheets, contact Mill-Rose or download directly from the Mill-Rose Clean-Fit website.

REMEMBER, GASEOUS OXYGEN VIGOROUSLY ACCELERATES COMBUSTION OF MOST MATERIALS.
Read all instructions carefully and ensure that training is received on the fire hazards of oxygen before using this product.

Features:

- PTFE thread sealant is specifically formulated for oxygen service
- Pressures: 2,600 PSI (180 BAR) for oxygen gas
- Sealing temperature: -320°F to 450°F (-196°C to 232°C)
- Each batch tested for Autoignition Temperature per ASTM G-72
- OXY-CLUTCH is inert, noncorrosive and nonflammable.
- Contains no silicone or hydrocarbons
- No V.O.C.s • Made in the USA

Instructions for Use:

- Obtain qualified instruction on controlling fire hazards in oxygen systems prior to handling or usage, such as ASTM Standards Technology Training course of "Fire Hazards In Oxygen Systems."
- Ensure that all components are suitable for oxygen application prior to wetting any portion of the system with oxygen.
- Ensure all components are properly cleaned for oxygen, at the piece-part level, prior to application of this product and final assembly.
- Use this product with tapered thread fittings, such as National Pipe Threads (NPT), National Gas Threads (NGT), etc. DO NOT use this product with flared or o-ring sealed fittings.
- Use applicators that are NON-ORGANIC and NON-SHEDDING such as a brass or fiberglass bristle brush.
- DO NOT transfer the product from its original container to another container since the new container may add contaminants which could compromise the oxygen compatibility of the product.
- DO NOT apply this product liberally. Apply SPARINGLY.
- DO NOT apply this product on the first two threads of the male fitting. Application of this product on the first two threads of the male fitting can increase the likelihood of contamination and migration into the internal oxygen-wetted portions of the systems.
- DO NOT use this product above 2600 psi.



Green Full-Density Oxygen Thread Seal Tape

Mill-Rose Full-Density Green Thread Seal Tape is over five times heavier than common sealing tapes so you can use it and never worry about contaminating systems. Because it is degreased; it has no residual lubricant, unlike common tapes made with petroleum as a lubricant. Specifically developed for oxygen installations, Green thread seal tape is both safe and reliable to use; it is chemically inert and won't support combustion.

Applications: Oxygen lines, systems and other flammable environments. Also may be used on most liquid, oil and chemical installations.

Oxygen sealant tape is a degreased version of Gas Seal Tape. Meets MilSpec T-27730A (A-A58092) and has the approval of most gas companies: AIRCO (USA), British Oxygen Co. (UK), CANOX (Canada), Commonwealth Ind. Gases (Aus.) and Air Liquid (France).



Wire
Rack
Display.

3-Wrap Yellow Gas Thread Seal Tape

Just 3 wraps is all you need for leak-proof joints.

Mill-Rose 3-Wrap Yellow Gas Seal Tape is a PTFE thread sealing tape designed specifically for gas lines. This is a full or maximum-density thread sealing tape. Mill-Rose 3-wrap yellow gas seal tape is approved by relevant authorities and used by the gas industry world-wide. It's color-coded yellow so fitters and inspectors can easily recognize it as an approved tape.

Applications: Ideally suited for natural gas, propane and butane lines. Use on pipe made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS and fiberglass. Do not use Gas Thread Seal Tape on oxygen systems.

Certified to comply with the provisions of MilSpec T-27730A, UL-listed, CSA approved.



Reference Mill-Rose specification sheet for additional uses and applications.

Cat #	Description	Std. Pkg.	Master Pkg.	Wgt./Pkg.
70850	1/2" x 260" Rolls	10	100	.40 lbs.
70852	3/4" x 260" Rolls	6	60	.30 lbs.
70854	1" x 260" Rolls	6	60	.50 lbs.

DISPLAY PACKAGING - GREEN PTFE THREAD SEAL TAPE

Cat #	Description	Std. Pkg.	Master Pkg.	Wgt./Pkg.
70861	1/2" x 260" 10 Pk. Dispenser	1	10	.60 lbs.
70862	3/4" x 260" 6 Pk. Dispenser	1	10	.71 lbs.
70863	1" x 260" 6 Pk. Dispenser	1	10	.89 lbs.
70865	Wire Rack Display	1	10	.25 lbs.

Specifications:

Composition:	99.6% PTFE <0.4% pigment
Color:	Green
Length:	260" (6.6m)
Width:	1/2" (12mm), 3/4" (19mm) and 1" (25mm)
Thickness:	0.102mm +/-10%
Density:	1.5g/cm ³ +/-10%
Elongation:	>100%

Pressure rating: Mill-Rose Green Oxygen Tape has been used regularly on oxygen fittings at pressures up to 2,173.9PSI or 15,000kPa. Note: Pressure ratings are relative to the quality and torque of the fittings and the amount of tape used.

Temperature range: -450°F to +500°F (-268°C to +260°C) PTFE is completely stable up to +500°F or +260°C. Decomposition is slow up to 750°F or +400°C. Although decomposition will occur on contact with naked flames.

Tensile strength: 9-13N/mm²

Reference Mill-Rose specification sheet for additional uses and applications.

Cat #	Description	Std. Pkg.	Master Pkg.	Wgt./Pkg.
70820	1/2" x 260" Rolls	10	100	.4 lbs.
70830	3/4" x 260" Rolls	6	60	.3 lbs.
70840	1" x 260" Rolls	6	60	.3 lbs.

Display Packaging - 3-Wrap Yellow Gas Line Tape

Cat #	Description	Std. Pkg.	Master Pkg.	Wgt./Pkg.
70821	1/2" x 260" Carded	10	50	.60 lbs.
70822	1/2" x 260" 40 Pk. Counter Disp.	1	4	2.1 lbs.
70823	3/4" x 260" 24 Pk. Counter Disp.	1	4	1.5 lbs.
70824	1" x 260" 24 Pk. Counter Disp.	1	4	2.0 lbs.
70825	1/2" x 260" 10 Pk. Dispenser	1	10	.60 lbs.
70835	3/4" x 260" 6 Pk. Dispenser	1	10	.71 lbs.
70845	1" x 260" 6 Pk. Display	1	10	.89 lbs.

Specifications:

Composition:	99.0% PTFE <1.0% Pigment
Color:	Yellow
Thickness:	0.004" +/-10% (0.102mm +/-10%)
Density:	1.5g/cm ³ +/-10%
Elongation:	>100%

Pressure rating: In tests conducted by an independent laboratory Mill-Rose 3-Wrap Yellow Gas Seal Tape was found to seal fittings carrying natural gas at pressures up to 4,347 PSI or 30,000kPa when applied as per instructions. (Details available upon application.) Note: Pressure ratings are relative to the quality and torque of the fittings and the amount of tape used.

Temperature range: -400°F to +500°F (-268°C to +260°C) PTFE is completely stable up to +500°F or +260°C. Decomposition is slow up to 750°F or 400°C. Decomposition will occur on contact with naked flames.

Tensile strength: 10-17 N/mm²