



PTFE Thread Sealants

Mill-Rose *Medium Density* PTFE Thread Sealing Tape

A white, medium-density PTFE thread sealing tape designed for a broad range of applications. Just 3 wraps is all you need for dependable, leak-proof joints.

Description

Mill-Rose PTFE Thread Sealing Tape is designed specifically to seal lines carrying steam, water and other liquids.

This sealing tape is a medium-density thread sealing tape. Unlike most thread sealing tapes on the market, Mill-Rose Thread Sealing Tape has not been stretched during the manufacturing process. Stretching lowers the apparent density of tape by increasing its porosity. As stretched tape is more porous, more tape is required to obtain an effective seal.

Characteristics

- Compatible with a broad range of gases and liquids
- Compatible with a broad range of piping materials
- Will not harden or crack on the joints
- Effective across a broad range of temperatures
- Acts as a thread lubricant and anti-seize
- Prevents electrolytic corrosion of threads
- No curing time
- Unlimited shelf life
- Non-flammable
- Non-toxic, clean

Applications

Mill-Rose Thread Sealing Tape is manufactured from PTFE resin, a polymer consisting of recurring tetrafluoroethylene monomers whose formula is $(CF_2-CF_2)_n$. It is inert and compatible with a very wide range of materials. Use Mill-Rose PTFE Tape on pipe made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS, and fiberglass. It can be used on pipes carrying the following:

- Acids, concentrated (*see precautions*)
- Acids, dilute
- Air, compressed
- Alcohols
- Aliphatic solvents
- Ammonia, liquid
- Aromatic solvents
- Caustics, concentrated (*see precautions*)
- Chlorinated solvents
- Cutting oils
- Diesel fuel oil
- Ethylene glycol
- Fatty acids
- Gasohol
- Glycerine
- Heating oils
- Hydraulic fluids



- Hydraulic oils
- Hydrogen, gaseous and liquid
- Inert gases, gaseous and liquid
- Jet fuel
- Kerosene
- Ketones
- Liquid petroleum gas
- Mineral oils
- Natural gas
- Nitrogen, gaseous and liquid
- Petroleum solvents
- Soap, liquid
- Steam
- Vegetable oils
- Water

For a more detailed list of chemicals compatible with Mill-Rose PTFE Thread Seal Tape contact Mill-Rose.

Note. Mill-Rose Medium Density PTFE Thread Seal Tape is compatible with most gases, but for gas lines, Mill-Rose 3-Wrap Yellow Gas Seal Tape is recommended. Check your local code requirements.



Cat #	Description	Case Pack	Weight
70988	1/2" x 260"	144	5 lbs.
70989	1/2" x 520"	144	6 lbs.
70990	1/2" x 1296"	144	11 lbs.
70991	3/4" x 260"	144	7 lbs.
70992	3/4" x 520"	144	9 lbs.
70993	3/4" x 1296"	144	16 lbs.
70994	1" x 260"	144	10 lbs.
70995	1" x 520"	144	12 lbs.
70996	1" x 1296"	144	22 lbs.



Complies with Mil-T-27730A and A-A-58092

Made in the U.S.A.

The Mill-Rose Company • Clean-Fit Products

7310 Corporate Blvd., Mentor, OH 44060

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Specifications

Composition	100.0% pure virgin PTFE
Color	White
Thickness	0.0025" +/- 10%
Density	0.6g/cm ³ +/- 10%
Elongation	>50%
Tensile strength	1,000 PSI
Pressure rating	Mill-Rose Medium Density PTFE Thread Sealing Tape has been used to seal fittings carrying water and oil at pressures up to 10,000 PSI or 69,000kPa Note. Pressure ratings are relative to the quality and torque of the fittings and the amount of tape used.
Temperature range	-450°F to +550°F (-268°C to +288°C) PTFE is completely stable up to +550° F or +288° C. Decomposition is slow up to 750°F or 400°C Although decomposition will occur on contact with naked flames.

Fittings above 1 1/2" (38mm) diameter

1. Use 3/4" (19mm) wide tape for fittings up to 2" (51mm) in diameter. Use 1" (25mm) wide tape for fittings larger than 2" (51mm) in diameter.
2. Follow the directions given above.

Note. More than three wraps may be necessary for poor quality or damaged threads, threads that are hard to seal like parallel threads or threads on fittings subject to vibration.

Precautions

Note. Keep Mill-Rose Medium Density PTFE Thread Sealing Tape clean. Replace the clip on the spool after use. Store in a clean place. PTFE is virtually chemically resistant to all media, however there are a few exceptions. Alkali metals such as elemental sodium, potassium, and lithium are to be avoided. These alkali metals remove fluorine from the polymer molecule. Extremely potent oxidizers such as fluorine (F₂) and related compounds (e.g., chlorine trifluoride (ClF₃)) can be handled by PTFE, but only with great care. Since fluorine is absorbed into

the resin, the mixture becomes sensitive to a source of ignition such as impact. Other media to avoid are 80% NaOH or KOH, metal hydrides such as boranes (e.g., B₂H₆), aluminum chloride, ammonia (NH₃), certain amines (R-NH₂), imines (R-NH) and 70% nitric acid at temperatures near the suggested service level.

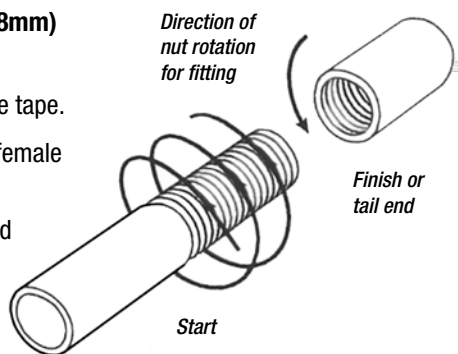
Do not use Mill-Rose Medium Density PTFE Thread Sealing Tape on oxygen lines!

Mill-Rose recommends Green Oxygen Tape for oxygen lines. For further safety details, consult the Material Safety Data Sheet.

Instructions

Fittings up to 1 1/2" (38mm) diameter

1. Use 1/2" (12mm) wide tape.
2. Clean the male and female threads thoroughly.
3. Wrap the tape around the male thread. Take care to keep the tape under tension as you are wrapping so the tape molds itself into the root of the thread.
4. Make sure that you wrap with the thread.



5. Make sure that the tape does not overlap the end of the fitting.
6. Three wraps seal most threads.

Limited Liability

The information presented is in good faith, but no warranty is given nor are the results guaranteed. Since we have no control over the physical conditions surrounding the application of information herein contained, Mill-Rose disclaims any liability for untoward results.

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