3-Wrap PTFE Thread Sealants

Mill-Rose *3-Wrap* Yellow Gas Thread Seal Tape

A yellow color-coded, full density, PTFE thread sealing tape designed for the gas industry. Just 3 wraps is all you need for dependable, leak-proof joints.

Description

Mill-Rose *3-Wrap* Yellow Gas Seal Tape is a PTFE thread sealing tape designed specifically for gas lines.

This sealing tape is a thick, full or maximum density thread sealing tape. Unlike most thread sealing tapes on the market, *3-Wrap* Yellow Gas Seal 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 is required to obtain an effective seal. A stretched tape is also flimsy and difficult to work with. It is more likely to shred and string. The amount of tape wasted is high. With *3-Wrap* full density Yellow Gas Seal Tape these problems are avoided. 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.

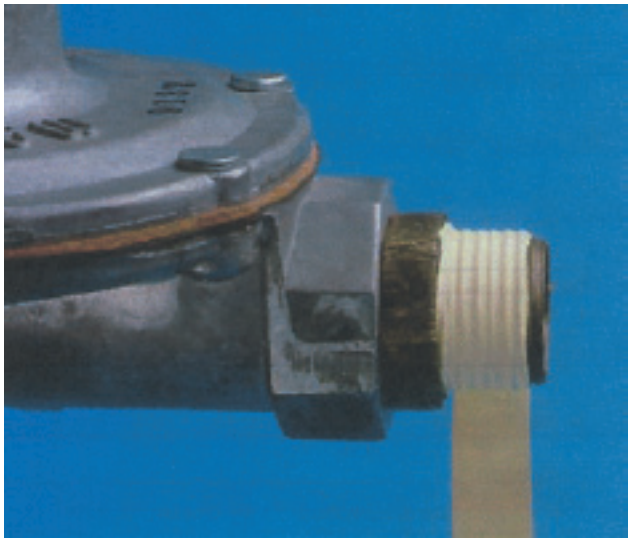
Characteristics

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

Applications

Mill-Rose *3-Wrap* Yellow Gas Seal Tape is manufactured from PTFE. PTFE resin is a polymer consisting of recurring tetrafluoroethylene monomers whose formula is $(CF_2 - CF_2)n$. It is one of the most inert substances known. Therefore, it is compatible with a very wide range of materials. It can be used on pipe made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS and fiberglass. It can also be used on pipes carrying the following materials:

- Acids, concentrated (see precautions)
- Acids, dilute
- Air, compressed
- Alcohols
- Aliphatic solvents
- Ammonia, liquid
- Aromatic solvents
- Caustics, concentrated (see Precautions)
- Caustics, dilute



- Chlorinated solvents
- Cutting oils
- Diesel fuel oil
- Ethylene glycol
- Fatty acids
- Gasohol
- Glycerine
- Heating oils
- Hydraulic fluids
- Hydraulic oils
- Hydrogen, gas and liquid
- Inert gases, gas and liquid
- Jet fuel
- Kerosene
- Ketones
- Liquid Petroleum Gas
- Mineral oils
- Natural gas
- Nitrogen, gas and liquid
- Petroleum solvents
- Soap, liquid
- Steam
- Vegetable oils
- Water

For a more detailed list of chemicals compatible with *3-Wrap* Yellow Gas Seal Tape, contact Mill-Rose.

Point-of-sale displays

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Specifications

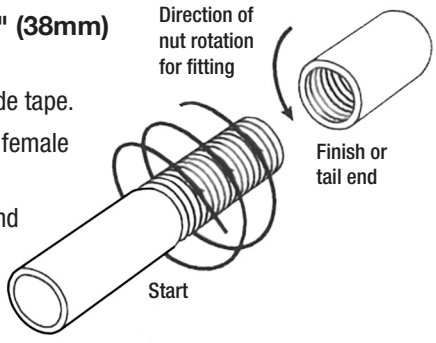
Composition	99.0% PTFE < 1.0% Pigment
Color	Yellow
Thickness	0.004" +/- 10% (0.102mm +/- 10%)
Density, apparent	1.5g/cm^3 +/- 10%
Elongation	>100%
Pressure rating	In tests conducted by an independent laboratory Mill-Rose *3-Wrap* Yellow Gas Seal Tape was found to seal fittings carrying natural gas at 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	-450ºF to +500ºF (-268ºC to +260ºC) PTFE is completely stable up to +500º F or +260º C. Decomposition is slow up to 750ºF or 400ºC. Although decomposition will occur on contact with naked flames.
Tensile Strength	10-17 N/mm^2

Packaging	By Shrink Pack		By Carton	
Size	Qty	oz / gms	Qty	lbs / kgs
1/2" (12mm)	10	7.3 / 207	1000	46.3 / 21.0
3/4" (19mm)	6	6.2 / 176	600	24.9 / 11.3
1" (25mm)	6	8.6 / 243	600	33.7 / 15.3

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.

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

Precautions

Note. Keep Mill-Rose *3-Wrap* Yellow Gas Seal 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 (F_2) and related compounds (e.g., Chlorine trifluoride, ClF_3) 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. B_2H_6), aluminum chloride, ammonia (NH_3), certain amines ($R\text{-}NH_2$), imines (R-NH) and 70% nitric acid at temperatures near the suggested service level.

Do not use Mill-Rose 3-Wrap Yellow Gas Seal Tape on oxygen lines!

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

Approvals

Mill-Rose *3-Wrap* Yellow Gas Seal Tape is approved by the following authorities:

- American Gas Association
- Australian Gas Association
- Canadian Gas Association
- Underwriters' Laboratories
- Underwriters' Laboratories of Canada

Mill-Rose Yellow Gas Seal Tape is also approved by Underwriters' Laboratories for use in sprinkler systems and water spray piping. Details of all approvals can be obtained on application to Mill-Rose.

Limited Liability

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

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