



Stainless Steel Thread Sealing Tape

Mill-Rose Stainless Steel Thread Sealing Tape

A nickel impregnated, PTFE thread sealing tape designed for stainless steel fittings.

Description

Mill-Rose Stainless Steel Thread Sealing Tape is a new and unique thread sealing tape which prevents stainless steel fittings galling or seizing during assembly and disassembly. The tape is impregnated with nickel powder which acts like bearing plates, keeping the surface of the male and female threads apart. Further protection is provided with the thicker and denser than average composition of Mill-Rose Stainless Steel Thread Sealing Tape. This added thickness and density also ensure an effective seal.

Characteristics

- Compatible with a wide range of gases and liquids
- Compatible with a wide range of piping materials
- Will not harden or crack on the joint
- No curing time
- Effective across a broad range of temperatures
- Non-toxic

- Non-flammable
- Clean
- Unlimited shelf life

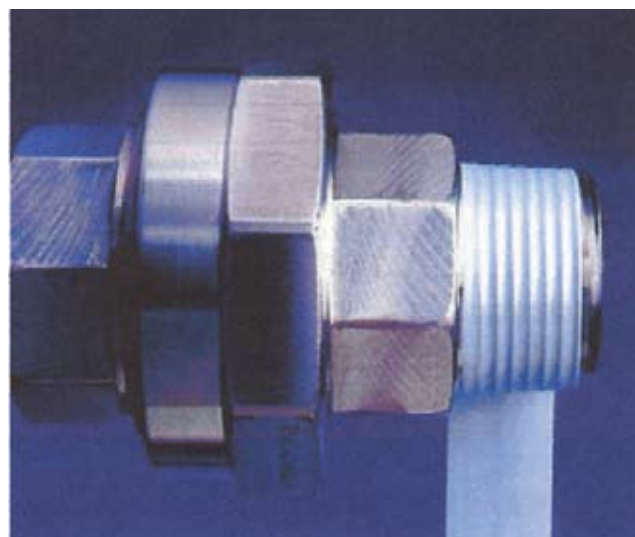
Applications

Mill-Rose Stainless Steel Thread Sealing Tape is recommended for stainless steel pipe and fittings but it is compatible with the following piping materials:

- Galvanized steel
- Iron
- Brass
- Copper
- Aluminum
- Fiberglass
- Polyethylene
- Polypropylene
- PVC
- CPVC
- ABS

Mill-Rose Stainless Steel Thread Sealing Tape can also be used on pipe and fittings carrying the following materials:

- Acids, dilute (see precautions)



- Acids, concentrated (see precautions)
- Air, compressed
- Alcohol
- Ammonia
- Aliphatic solvents
- Aromatic solvents
- Caustics, dilute
- Caustics, concentrated (see precautions)
- Chlorinated solvents
- Cutting oils
- Diesel fuel oils
- Ethylene glycol
- Fatty acids
- Glycerin
- Gasohol
- Heating oil
- 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 Stainless Steel Thread Sealing Tape contact Mill-Rose.



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Specifications

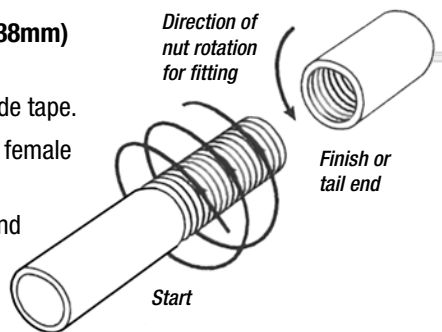
Composition	90% PTFE / 10% nickel
Color	Silver
Length	260" (6.6m)
Width	See Packaging below
Thickness	0.0045" +/-10% (0.115mm +/-10%)
Density, apparent	1.6g/cm ³ +/- 10%
Elongation	50%
Temperature range	-450°F to +500°F (-268°C to +260°C) PTFE is completely stable up to +500° F or +260° C. Decomposition is slow up to 750°F or +400°C. Although decomposition will occur on contact with naked flames.
Tensile Strength	10-12N/mm ²

Packaging	By Box/Pack		By Carton	
Size	Qty	oz / gms	Qty	lbs / kgs
1/2" (12mm)	10	8.0/227	1000	57.6/26.12
3/4" (19mm)	6	9.6/272	600	52.0/23.58
1" (25mm)	6	11.2/318	600	60.0/27.20

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. Two to three wraps seals most threads.

For fittings above 1 1/2" (38mm) in diameter.

1. Use 3/4" (19mm) wide tape for fittings up to 2" (51mm) diameter. Use 1" wide tape for fittings larger than 2" (51mm) diameter.
2. Follow the directions given for fittings up to 1-1/2" (38mm) diameter.

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

Precautions

Note. Keep Mill-Rose Stainless Steel Thread Sealing Tape clean. Replace the clip on the spool after use. Store in a clean place. Mill-Rose Stainless Steel Thread Sealing Tape is manufactured predominantly from PTFE resin. 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. Mill-Rose Stainless Steel Thread Sealing Tape also contains nickel. Some acids might react with this metal on the surface of the tape.

Do not use Mill-Rose Stainless Steel 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.

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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