

Unasco Yellow Gas Seal Tape

A color-coded, full density, Teflon* thread sealing tape designed for the gas industry

Description

Unasco Yellow Gas Seal Tape is a Teflon thread sealing tape designed specifically for gas lines.

Unasco Yellow Gas Seal Tape is a thick, full or maximum density thread sealing tape.

Unlike most thread sealing tapes on the market

Unasco 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 Unasco's full density Yellow Gas Seal Tape these problems are avoided.

Unasco Yellow Gas Seal Tape is approved by relevant authorities and used by the gas industry world-wide.

Also, Unasco Yellow Gas Seal Tape is color-coded yellow so fitters and inspectors can easily recognize it as an approved tape.

Further

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

Unasco Yellow Gas Seal Tape is manufactured from Teflon. Teflon 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, aluminium, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS and fibreglass.

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, 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 Unasco Yellow Gas Seal Tape, contact Unasco.

Specifications

Composition	99.0% Teflon PTFE <1.0% Pigment
Colour	Yellow
Thickness	0.102mm ± 10% 0.004in. ± 10%
Density, apparent	1.5 g/cm ³ ± 10%
Elongation	>100%
Pressure rating	In tests conducted by an independent laboratory Unasco 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 torquing of the fittings and the amount of tape used.
Temperature range	-450° F to +500° F / -268° C to +260° C Teflon 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 -17 N/mm ² .

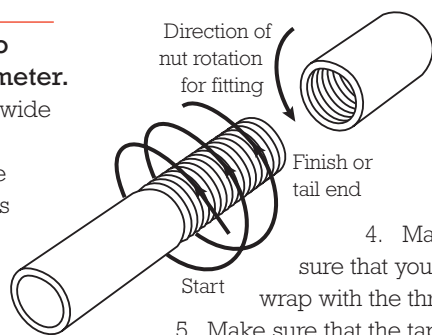
Packaging

Size	By Shrink Pack		By Carton	
	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

For 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 moulds 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 Unasco Yellow Gas Seal Tape clean. Replace the clip on the spool after use. Store in a clean place. Teflon PTFE is virtually chemically resistant to all medias, 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 Teflon 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 medias to avoid are 80% NaOH or KOH, metal hydrides such as boranes (e.g., B₂H₆), aluminium chloride, ammonia (NH₃), certain amines (R-NH₂), imines (R-NH) and

70% nitric acid at temperatures near the suggested service level.

Do not use Unasco Yellow Gas Seal Tape on oxygen lines! Unasco recommends Green Oxygen Tape for oxygen lines. For further safety details consult the Material Safety Data Sheet.

Approvals

Unasco 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

Unasco 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 Unasco Pty. Ltd.

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*Teflon is a registered trademark of Dupont



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