

UNASCO Gold Tape

A color-coded, full density, PTFE Thread sealing Tape designed for the gas industry

Description

UNASCO Gold Tape is a thick, full or maximum density thread sealing tape. Unlike most thread sealing tapes on the market

UNASCO Gold 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 Gas Tape these problems are avoided.

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.

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
- Indefinite shelf life.

Applications

Unasco Gold 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 also be used on pipes carrying the following materials.

It can be used on pipe



made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, PVC, CPVC, ABS, and fibreglass.

It can 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 Gold Seal Tape, contact UNASCO.

Specifications

| | |
|-------------------|----------------------------------|
| Composition | 99.0% PTFE <1.0% Pigment |
| Colour | Gold |
| Thickness | 0.114mm ± 10% 0.0045in. ± 10% |
| Density, apparent | 1.5 g/cm ³ ± 10% |
| Elongation | > 100% |

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 -17 N/mm².

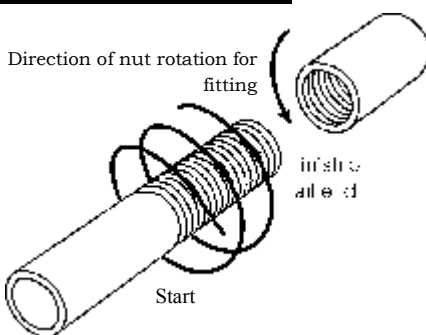
Packaging

| | |
|--------|-----------------|
| ATG001 | ¼ x 180 inches |
| ATG005 | ½ x 540 inches |
| ATG006 | ½ x 1296 inches |
| ATG008 | ¾ x 540 inches |
| ATG011 | 1 x 540 inches |

Instructions

For fittings up to 1½"/38mm diameter.

1. Use 1/2"/38mm 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 1½"/38mm diameter.

1. Use ¾"/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 Gold Tape clean. Replace the clip on the spool after use. Store in a clean place. 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 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., B₂H₃), aluminium chloride, ammonia (NH₃), certain amines (R-NH₂), imines (R-NH) and

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

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, Unasco disclaims any liability for untoward results.