

## Eureka Thread Sealing Tape

### Description

White PTFE tape for sealing threaded components on lines carrying liquids and gases.

### Further Characteristics

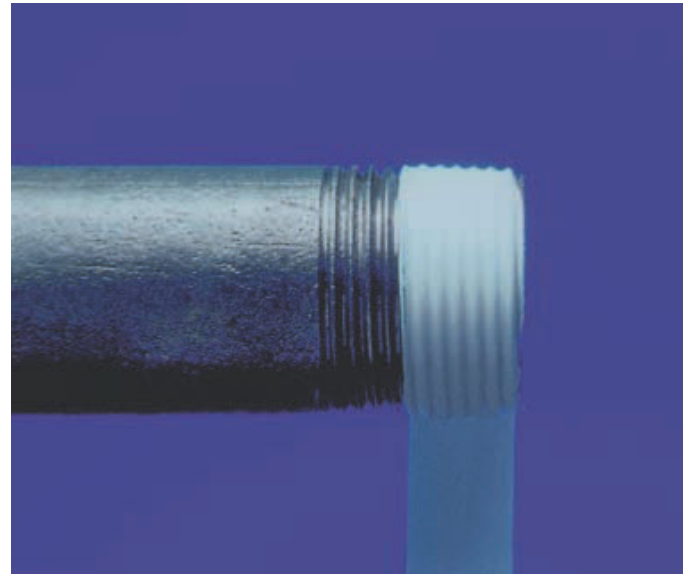
- Its higher density guarantees better results
- Compatible with a broad range of gases and liquids
- Compatible with a broad range of piping materials
- No curing time
- Effective across a broad range of temperatures
- Acts as a thread lubricant and anti-seize
- Prevents electrolytic corrosion of threads
- Clean
- Non-toxic
- Non-flammable
- Unlimited shelf life

### Applications

Eureka Thread Sealing 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 galvanised steel, iron, copper, aluminium, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS and fibreglass. Eureka Thread Sealing Tape is also chemically compatible with the following materials.

- acids, concentrated (see precautions)
- acids, dilute
- air, compressed
- alcohols
- aliphatic solvents



- ethylene glycol
- fatty acids
- gasohol
- glycerine
- heating oils
- hydraulic fluids
- hydraulic oils
- kerosene
- ketones
- liquid petroleum gas
- mineral oils
- natural gas
- nitrogen, gaseous & liquid
- petroleum solvents
- soap, liquid
- steam
- vegetable oils
- water

For a more detailed list of chemicals compatible with Eureka Thread Sealing Tape contact Unasco.

- ammonia, liquid
- aromatic, solvents
- caustics concentrated (see precautions)
- caustics, dilute
- chlorinated solvents
- cutting oils
- diesel fuel oil

- hydrogen, gaseous & liquid
- inert gases, gaseous & liquid
- jet fuel

## Specifications

Composition	100% PTFE
Colour	White
Density, apparent	0.8g/cm <sup>3</sup>
Elongation	>100%
Temperature range	-450 to +500° F / -268 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 flame.

## Instructions

1. Clean the male and female threads thoroughly.
2. Wrap the tape around the male thread. Take care to keep the thread tape under tension as you are wrapping so the tape molds itself into the root of the thread.
3. Make sure you wrap with the thread.
4. Make sure the tape does not overlap the end of the fitting.
5. Four wraps seals most threads.

**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 four wraps may be necessary.

## Precautions

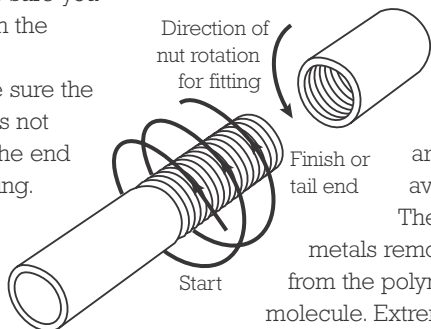
**Note.** Keep Eureka Thread Sealing Tape clean. Replace the clip on the spool after use. Store in a clean place.

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 oxidisers such as fluorine (F<sub>2</sub>) and related compounds (e.g., Chlorine trifluoride, ClF<sub>3</sub>) 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., B<sub>2</sub>H<sub>6</sub>), aluminium chloride, ammonia (NH<sub>3</sub>), certain amines (R-NH<sub>2</sub>), imines (R-NH) and 70% nitric acid at temperatures near the suggested service level.

## Do not use Eureka Thread Sealing Tape on oxygen lines!

*Unasco recommends Green Oxygen Tape for oxygen lines. For further safety details contact 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.



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