

## Unasco Nickel Anti-Seize Tape

A clean and efficient alternative to anti-seize compounds.

### Description

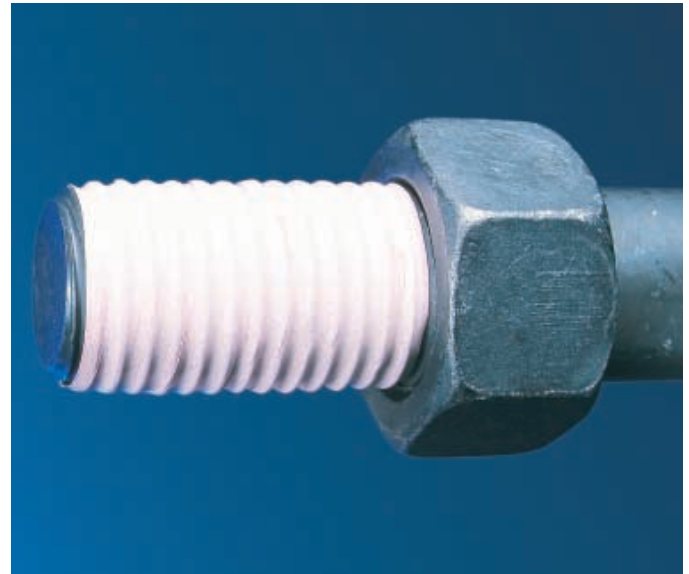
Unasco Nickel Anti-Seize Tape is designed to permit easy assembly and disassembly of stainless steel threaded components. It takes the place of messy and potentially contaminating anti-seize compounds.

Unasco Nickel Anti-Seize Tape is manufactured from a nickel filled Teflon\* PTFE resin. The Teflon provides excellent lubricity while the nickel flakes act as slide or bearing plates between the two mating surfaces. Thus, the tape helps prevent galling during the assembly and disassembly of components.

When Unasco Nickel Anti-Seize tape is wrapped around a thread, it protects it from corrosive substances or any dirt and grit likely to cause seizure. Unasco Nickel Anti-Seize Tape also prevents components from vibrating loose.

### Further Characteristics

- Resistant to a broad range of chemicals
- Compatible with a wide range of metals
- Will not rub, scuff or squeegee off
- Effective across a broad range of temperatures
- Clean
- No waste
- Non-toxic
- Non-flammable
- Compact



### Applications

Unasco Nickel Anti-Seize Tape is designed for stainless steel components. However, it can also be used on components made out of the following metals: steel, iron, brass, copper, aluminium, titanium and magnesium.

It is also resistant to strong alkaline solutions, most chemical and acid vapours, road salt, steam, salt water and iodized water. Consult Precautions before use.



## Specifications

|                   |  |
|-------------------|--|
| Composition       | Teflon PTFE nickel   |
| Colour            | Silver   |
| Length            | 600"/15.1m   |
| Width             | See Packaging below  |
| Thickness         | 0.0045"±10% / 0.115mm±10%  |
| Density           | 1.5g/cm <sup>3</sup> ±10%  |
| Elongation        | 50%  |
| Tensile strength  | 10-12N/mm <sup>2</sup>   |
| Temperature range | The tape is completely thermally stable at temperatures between -450° F to +500° F / -268° C to +260° C<br>Teflon PTFE in the tape will slowly decompose up to 750° F or 400° C. Although decomposition will occur on contact with naked flame. Upon decomposition the remaining nickel powder will assist disassembly. The nickel flake will melt at 2646° F/1452° C. |

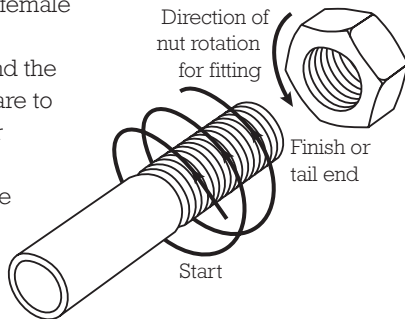
## Packaging

| Size      | By Box |          | By Carton |         |
|-----------|--------|----------|-----------|---------|
|           | Qty    | oz/gms   | Qty       | lbs/kgs |
| 1/2"/12mm | 10     | 17.3/490 | 490       | 44/20   |
| 3/4"/19mm | 6      | 14.4/408 | 294       | 35/15.9 |

## Instructions

### Components up to 1 1/2"/38mm in diameter.

1. Use 1/2"/12mm wide tape.
2. Clean male and female threads thoroughly.
3. Wrap 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. Overlap the tape 50% on each wrap.



6. Cover the entire threaded portion of the component with tape.

### Components above 1 1/2"/38mm in diameter.

1. Use 3/4"/19mm wide tape.
2. Follow the directions given above.

**Note.** Unasco Nickel Anti-Seize Tape is approximately 0.0045" or 0.115mm. thick. Therefore, when applied as directed it will add approximately 0.018" or 0.46mm. to the diameter of the threaded portion of the component. Ensure that this is within tolerance. Where Unasco Nickel Anti-Seize tape cannot be used, Unasco Nickel Anti-Seize Compound is recommended.

## Precautions

Keep Unasco Nickel Anti-Seize Tape clean. Replace the clip on the spool after use. Store in a clean place. Unasco Nickel Anti-Seize Tape is manufactured predominantly from Teflon PTFE resin. 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 (F<sub>2</sub>) and related compounds (e.g. Chlorine trifluoride, ClF<sub>3</sub>) 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 media 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>),

amines (R-NH) and 70% nitric acid at temperatures near the suggested service level. Unasco Nickel Anti-Seize Tape also contains nickel powder. Acids will react with nickel powder on the surface of the tape. Unasco Nickel Anti-Seize Tape is **not** designed specifically to be a thread sealant. However, it will seal threaded pipes up to 500° F/260° C.

**However, do not use Unasco Nickel Anti-Seize tape to seal lines carrying oxygen!**

For oxygen service, Unasco Green Oxygen Tape is recommended. For further safety details consult the Material Safety Date 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.

\*Teflon is a registered trademark of Dupont



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