



PTFE has a number of special characteristics, giving the hoses a very wide application field within the various branches of industry. Target applications are in the chemical, pharmaceutical and food industries. These industries employ the hoses for steam, air, oil, chemicals, acids, alcohols, solvents, refrigerants, gases, foodstuffs, cosmetics, etc. as a cable protection sleeve or as a level gauge tube.

Characteristics

- Resistant to nearly all chemicals, with the exception of some chloro-fluoro compounds at raised temperatures and molten alkali metals.
- Excellent fatigue resistance ("Flex-Life"), whereby PTFE hoses offer a solution for high mechanical loading and dynamic motion.
- Wide temperature range: -60°C to $+260^{\circ}\text{C}$
- Non-poisonous, as per FDA
- Non-sticking, can be cleaned easily and thoroughly
- Damp proof and UV resistant
- Aging resistant
- Very low coefficient of friction, and minimum discharge losses.
- Non inflammable, in accordance with D-635

Electrical conductivity

The addition of carbon to the PTFE makes the hose exceptionally conductive. An antistatic PTFE hose is the correct choice in situations where the electrical charging of a connection can cause problems. An antistatic PTFE hose has a resistance of $R < 10^6$ as per BS2050.

Hose assembly

PTFE hoses are delivered as a complete assembly. The couplings are fitted by means of a radial press, which results in a reliable connection. A choice can be made between PTFE-lined couplings and ordinary pressed-on couplings. Assemblies with flanges are delivered standard in a swivelling version, PTFE lined.

Tolerance

Length of the complete hose assembly is the total length measured end to end including the sealing faces of the couplings. The length tolerance is $0 + 3\%$.

Testing and certification

Every assembly is hydrostatically tested before delivery with water or nitrogen. Econosto can also offer other test possibilities. On request we can also provide the assembly with a unique test number and test certificate.

Temperature correction

All given specifications apply at 20°C . Above 120°C the operating pressure and the vacuum should be corrected by 1% per degree.

Variants

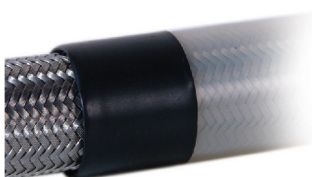
PTFE hoses are available in various versions. On the following pages you will find the following subjects:

Smooth hoses with and without braiding	Corrugated hoses with and without braiding
Special versions and additional features	Couplings for PTFE hoses

Besides the types mentioned, there are many other versions available upon request, such as PTFE hoses with AISI 316, Monel, Hastelloy, PVDF, Kevlar or Terylene braiding. This last one is suitable, for example, for low pressure steam applications, whereby the Terylene serves as a heat insulator, and in combination with virgin PTFE, as an electrical insulator.

Extra features

- Rubber wear rings, a lightweight protection against abrasion for the braiding. Max. temperature 120 °C.
- PVC spiral protection offers protection of the braiding where it comes into contact with the machine, or whenever hoses are fastened close together.



Silicone protection hose, for smoother outer surface that can be cleaned better.
Mainly used in food and pharmaceutical industries.
Max. temperature 180°C.



Glass fibre silicone protection, for shielding and insulation.
Max. continuous temperature 260°C; Max. 1000°C 1
5-20 min.; Max. 1600°C 15-30 sec.



Thermoplastic shrink-on sock, for smoother outer surface that can be cleaned better.
Max. temperature 90°C.
Standard in black, other colours on request.



Ceramic jacket for very high heat insulation.



Rubber jacket, to protect from wear and kinking.



Metal spiral, to protect the braiding from damage or wear.
An alternative to the rubber protection jacket at higher temperatures.



Anti-kink spiral behind the couplings.