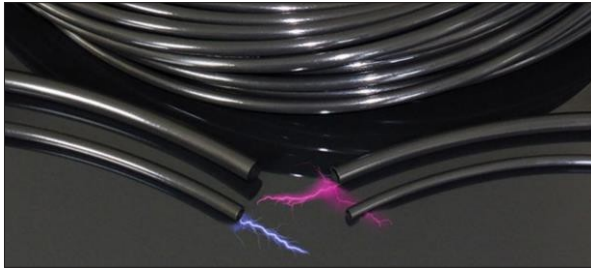


**Smooth-walled hoses -  
PTFE**



**PTFE AS (ANTI-STATIC)**

**Smooth-walled anti-static Teflon hose**

**Material:** anti-static PTFE (Teflon), black

**Shore (D) hardness:** 60

**Operating temperature:** -200°C to +260°C  
(working pressure dependent on temperature)

Lightweight smooth-walled PTFE hose with antistatic properties and excellent chemical resistance. The electrical conductivity and dissipation properties are achieved by the addition of up to 2.5% *carbon black* - **PTFE AS**. This reduces the resistance of the hose material and meets the requirements of the EN12115 standard requiring a resistance between hose ends of less than  $10^6 \Omega/m$ . The hose is particularly suitable for chemically aggressive, non-conductive substances, e.g. organic solvents, the flow of which in a standard Teflon hose can cause a build-up of electrical charge and associated hazards (*see information on static electricity in the previous section "Teflon hoses - general information"*). The high purity and distribution of the carbon admixture in PTFE ensures compliance with FDA 21 CFR 178.3297 for materials approved for temporary food contact. Flame-retardant (UL94 V-0) and with a high oxygen index (LOI). The use of high-quality plug-in connectors is possible. Safety factor  $n = 4:1$ . For operating temperatures above 20°C, the operating pressure drop must be taken into account according to the table:

| Temperature dependence of burst pressure and working pressure (WT-PTFE-AS-hose-...) | temperature | 20°C | 50°C | 75°C | 100°C | 150°C | 200°C | 250°C |
|---|-------------|------|------|------|-------|-------|-------|-------|
|   | pressure    | 100% | 87%  | 77%  | 68%   | 53%   | 39%   | 28%   |

| index            | internal diameter [mm] | inside diameter tolerance ± [mm] | external diameter [mm] | Outer diameter tolerance ± [mm] | wall thickness [mm] | working pressure 20°C [bar] (n=4) | Burst pressure 20°C [bar] | bend radius [mm] | weight [g/m] | standard length [m] |
|------------------|------------------------|----------------------------------|------------------------|---------------------------------|---------------------|-----------------------------------|---------------------------|------------------|--------------|---------------------|
| WT-PTFE-AS-04X06 | 4                      | 0,1                              | 6                      | 0,1                             | 1                   | 12                                | 48                        | 25               | 33,8         | 50                  |
| WT-PTFE-AS-06X08 | 6                      | 0,1                              | 8                      | 0,1                             | 1                   | 8,7                               | 34,8                      | 49               | 47,3         | 50                  |
| WT-PTFE-AS-08X10 | 8                      | 0,1                              | 10                     | 0,1                             | 1                   | 7                                 | 28                        | 81               | 60,8         | 50                  |
| WT-PTFE-AS-10X12 | 10                     | 0,2                              | 12                     | 0,2                             | 1                   | 5,5                               | 22                        | 121              | 74,4         | 50                  |



**COLOURED PTFE**

**Smooth-walled dyed Teflon hose**

**Material:** PTFE (Teflon), dyed

**Shore (D) hardness:** 60

**Operating temperature:** -200°C to +260°C  
(working pressure dependent on temperature)

Lightweight smooth-walled PTFE hose with excellent chemical resistance in various colour versions. Made of high-quality PTFE with added colour (FDA compliant material). Flame-retardant (UL94 V-0) and with a high oxygen index (LOI). Application to high quality plug connectors is possible. Safety factor  $n = 4:1$ . For operating temperatures above 20°C, the working pressure drop must be taken into account according to the table:

| Temperature dependence of burst pressure and working pressure (WT-CLPTFE hose...) | temperature | 20°C | 50°C | 75°C | 100°C | 150°C | 200°C | 250°C |
|---|-------------|------|------|------|-------|-------|-------|-------|
|   | pressure    | 100% | 87%  | 77%  | 68%   | 53%   | 39%   | 28%   |

| index               | internal diameter [mm] | inside diameter tolerance ± [mm] | external diameter [mm] | Outer diameter tolerance ± [mm] | wall thickness [mm] | working pressure 20°C [bar] (n=4) | Burst pressure 20°C [bar] | bend radius [mm] | weight [g/m] | standard length [m] |
|---------------------|------------------------|----------------------------------|------------------------|---------------------------------|---------------------|-----------------------------------|---------------------------|------------------|--------------|---------------------|
| WT-CLPTFE-02X04...* | 2                      | 0,1                              | 4                      | 0,1                             | 1                   | 20                                | 80                        | 9                | 20,3         | 50                  |
| WT-CLPTFE-04X06...* | 4                      | 0,1                              | 6                      | 0,1                             | 1                   | 12                                | 48                        | 25               | 33,8         | 50                  |
| WT-CLPTFE-06X08...* | 6                      | 0,1                              | 8                      | 0,1                             | 1                   | 8,7                               | 34,8                      | 49               | 47,3         | 50                  |
| WT-CLPTFE-08X10...* | 8                      | 0,1                              | 10                     | 0,1                             | 1                   | 7                                 | 28                        | 81               | 60,8         | 50                  |
| WT-CLPTFE-10X12...* | 10                     | 0,2                              | 12                     | 0,2                             | 1                   | 5,5                               | 22                        | 121              | 74,4         | 50                  |

\* When ordering a hose in the appropriate colour, add the appropriate letter designation to the end of the index (in place of the dots): blue (BL), black (BK), green (G), red (R), yellow (Y), e.g. **yellow** hose with a diameter of 2x4 mm: **WT-CLPTFE-02X04Y**