



## TUFLUOR® PTFE CHEM

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- SMOOTH, BLACK, CONDUCTIVE, CLOTH FINISH EPDM
- STAINLESS STEEL WIRE HELICES
- SYNTHETIC PLIES
- SMOOTH, CO-EXTRUDED CLEAR/WHITE PIGMENTED TEFLON™ PTFE

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

TEFLON™ PTFE, co-extruded clear/white pigmented, smooth, phthalates free, tested in compliance with 1907/2006/CE (REACH). TEFLON™ PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

#### Reinforcement

synthetic plies, stainless steel wire helices, a/s copper wires to discharge static electricity

#### Cover

smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertechnica website

### TECHNICAL CHARACTERISTICS

**Temperature range :** -40°C / +150°C ( -40°F / +302°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose.

**Electrical properties :** type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω)

**Norm :** EN12115 - TRbF 131/2



### Marking

red/white/blue tape

TUDERTECHNICA TUFLUOR® PTFE CHEM

embossed according to norm EN 12115

TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

| Inside diameter |      | Outside diameter |      | Vacuum |       | Length |      | Working pressure |       | Burst pressure |       | Appr. weight |          | Bending radius |       |
|-----------------|------|------------------|------|--------|-------|--------|------|------------------|-------|----------------|-------|--------------|----------|----------------|-------|
| [mm]            | [in] | [mm]             | [in] | [bar]  | [psi] | [mt]   | [ft] | [bar]            | [psi] | [bar]          | [psi] | [kg/mt]      | [lbs/ft] | [mm]           | [in]  |
| 13              | 0,50 | 25               | 1,00 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 0,54         | 0,36     | 90             | 3,54  |
| 19              | 0,75 | 31               | 1,22 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 0,70         | 0,47     | 130            | 5,12  |
| 25              | 1,00 | 37               | 1,46 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 0,86         | 0,58     | 170            | 6,69  |
| 32              | 1,25 | 44               | 1,73 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 1,18         | 0,79     | 215            | 8,46  |
| 38              | 1,50 | 51               | 2,00 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 1,43         | 0,96     | 255            | 10,04 |
| 50              | 1,97 | 66               | 2,60 | 0,9    | 13    | 40     | 130  | 16               | 250   | 64             | 1000  | 2,08         | 1,39     | 330            | 12,99 |
| 63,5            | 2,50 | 79,5             | 3,13 | 0,9    | 13    | 20     | 65   | 16               | 250   | 64             | 1000  | 2,96         | 1,98     | 430            | 16,93 |
| 75              | 2,95 | 91               | 3,58 | 0,9    | 13    | 20     | 65   | 16               | 250   | 64             | 1000  | 3,43         | 2,30     | 510            | 20,08 |
| 100             | 3,94 | 116              | 4,57 | 0,9    | 13    | 20     | 65   | 12               | 185   | 48             | 750   | 4,60         | 3,08     | 675            | 26,57 |

Data refer to ambient temperature (20 °C).