

# Versilon® TBOK Hose

## PVDF BRAIDED HELICALLY CONVOLUTED INNER TUBE ANTI-STATIC FLUOROPOLYMER HOSE

Saint-Gobain's Versilon® TBOK hose is constructed with a black electrostatic dissipating conductive PTFE convoluted inner tube and reinforced with PVDF braid. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow. The PVDF braid is ideal for severe applications where external corrosion from the presence of strong acids will attack standard stainless steel braid.

Versilon® TBOK hose's inner tube has a non-stick surface and cleans easily with steam, caustics, solvents or other cleaning agents. All standard sizes are fully vacuum rated at room temperature.

### Typical Applications

- Sanitary transfer
- Solvent transfer
- Drain and sample lines
- Semi-transparent sight gauges
- Corrosive environments (external)
- Liquid chlorine and bromine transfer
- Chlorinated fluid and gas transfer

### Features and Benefits

#### PTFE inner tube:

- Excellent chemical resistance
- Compatible with almost all materials
- Rounded, open-pitch helical convolutions shaped to ensure smooth product flow
- Non-stick surface, easy to clean (steam, caustics, solvents or other cleaning agents)
- Easy to flex, yet won't flatten when bent

#### PVDF braid:

- For severe applications where external corrosion from the presence of strong acids will attack standard stainless steel braid
- Ultraviolet stabilized

### Regulatory Compliance

- USDA
- US Pharmacopeia Class VI



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## Versilon® TBOK Hose Specifications

| Part Number | Inside Diameter |      | Outside Diameter |      | Maximum Working Pressure |       | Minimum Burst Pressure |       | Minimum Bend Radius |       | Vacuum Hg @ 70°F |      | Weight  |        |
|-------------|-----------------|------|------------------|------|--------------------------|-------|------------------------|-------|---------------------|-------|------------------|------|---------|--------|
|             | (in)            | (mm) | (in)             | (mm) | (psi)                    | (MPa) | (psi)                  | (MPa) | (in)                | (mm)  | (in)             | (mm) | (lb/ft) | (kg/m) |
| 12TBOK      | 3/4             | 19.1 | 1-1/8            | 28.6 | 200                      | 1.38  | 800                    | 5.52  | 3.00                | 76.2  | 29.9             | 760  | 0.25    | 0.37   |
| 16TBOK      | 1               | 25.4 | 1-3/8            | 34.9 | 200                      | 1.38  | 800                    | 5.52  | 4.00                | 101.6 | 29.9             | 760  | 0.35    | 0.52   |
| 24TBOK      | 1-1/2           | 38.1 | 2-1/8            | 54.0 | 175                      | 1.21  | 700                    | 4.83  | 5.00                | 127.0 | 29.9             | 760  | 0.65    | 0.97   |
| 32TBOK      | 2               | 50.8 | 2-9/16           | 65.1 | 150                      | 1.03  | 600                    | 4.14  | 6.00                | 152.4 | 29.9             | 760  | 0.90    | 1.34   |
| 48TBOK      | 3               | 76.2 | 3-7/8            | 98.4 | 100                      | 0.69  | 400                    | 2.76  | 12.00               | 304.8 | 29.9             | 760  | 1.50    | 2.23   |

### ⚠ Important:

**Burst Pressure** ratings at ambient 70°F (21°C). See applicable notes below on Vacuum/pressure ratings at temperatures other than ambient.

**Working Pressure** is given at room temperature. Decrease working pressure to 50 psig all sizes above 175°F.

**Vacuum Rating** all sizes = 29.9" Hg at 70°F. Decrease vacuum rating 1% for every 2°F above 175°F. 1-1/2" rated at 24" Hg; 2" rated at 20" Hg when installed less than 2X minimum bend radius.

NOTE: Weights and outside diameter dimensions are nominal. Data given is for hose only. End fitting vs. hose pressure limitations must be considered and the lower of the two ratings must be used on assemblies.

## Construction

|                     |   |                   |          |            |
|---------------------|---|-------------------|----------|------------|
| Inner Tube:         | Black electrostatic dissipating conductive PTFE |                   |          |            |
| Reinforcement:      | Heavy duty PVDF monofilament                    |                   |          |            |
| Temperature Rating: | -40°F to +275°F<br>-40°C to +135°C              |                   |          |            |
| Maximum Length:     | 3/4"<br>1"<br>1-1/2"                            | 70'<br>65'<br>70' | 2"<br>3" | 50'<br>30' |

## Fitting Options

### Versilon® Crimp Style Fittings

- Over 40 styles of stocked crimp-style fittings in a wide range of materials
- Standard: 316L stainless steel (wetted surfaces)
- Flare-Thru fitting technology available:
  - 150 lb. lap-joint style flanged
  - Female cam and groove
  - Sanitary clamp style
  - 304 and 316 stainless steel flanges available

## Common Media

- General chemical transfer
- Hexane
- Caustic solutions
- Liquid chlorine
- Bromine

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Saint-Gobain  
210 Harmony Road  
Mickleton, NJ 08056  
USA



NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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