

Vena® BIO BRAIDED

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Applications

It is especially recommended for the transport of liquid or semi-liquid fluids in the food, cosmetic, chemical and pharmaceutical industries. It offers an extremely broad field of applications. The design ensures a balance between strength and lightness, making it easy to handle.

They can be used in places with high pressure due to his resistance. Due to its translucent appearance, the product inside the hose is visible during the process phase.

Limitations

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with the silicone.

This type of hose is not recommended for operating under negative pressure.

This product is not recommended for the transport of abrasive particles.

Regulations

Platinum cured silicone produced in compliance with:

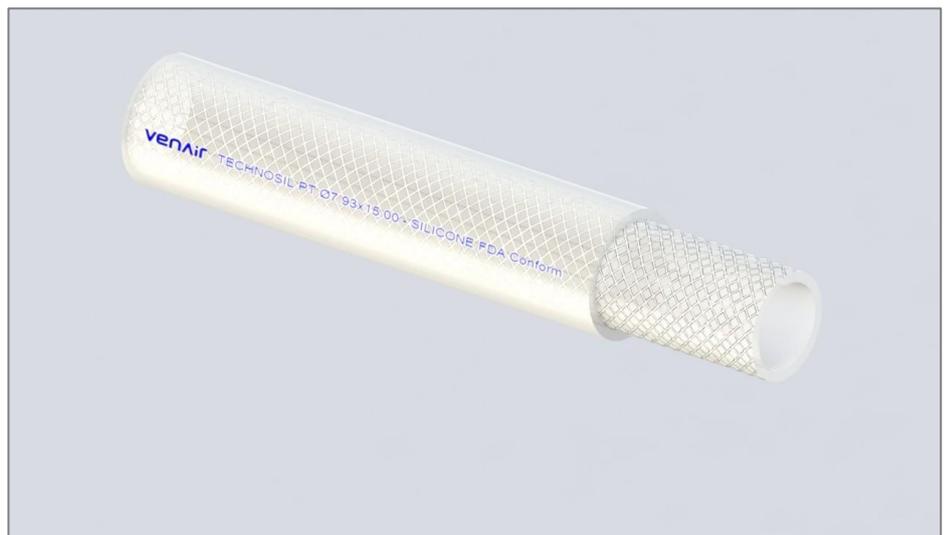
- US FDA Standard 21 CFR 177.2600
- German BfR Standard part XV
- USP Class VI <88> in vivo tests, 121°C
- ISO 10993-4, 5, 6 & 10
- ResAp 2004 (5), according to Reg 1935/2004/EEC, and Reg 10/2011/EEC
- European Pharmacopoeia 3.1.9
- 3A Sanitary Standard 18-03 Class I (material)
- 3A Sanitary Standard 62.02 (fitted hoses)

Silicone rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

Properties

- Odorless, tasteless and completely non-toxic.
- Translucent and smooth inner and outer appearance, the product could be manufactured with a colored outer layer.
- Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 µm (or 0.5 µm on request).
- Operational temperature range from -60°C (-75°F) to +180°C (356°F), it may reach up to 200°C (392°F) during short periods of time.
- The standard manufacturing length is 10 meters long (32.81 ft.), but they can be manufactured in other length if required.

Technical Specifications



| Inner Diameter | | Outer Diameter | | Bending Radius ISO 1746/1998 | | Working Pressure ISO 1402/2009 | | Bursting Pressure ISO 1402/2009 | |
|----------------|-------------|----------------|-------------|---------------------------------|-------------|-----------------------------------|--------------------|------------------------------------|--------------------|
| <i>mm</i> | <i>inch</i> | <i>mm</i> | <i>inch</i> | <i>mm</i> | <i>Inch</i> | <i>Bar at 20°C</i> | <i>Psi at 68°F</i> | <i>Bar at 20°C</i> | <i>Psi at 68°F</i> |
| 5.00 | 13/64 | 10.0 | 25/64 | 32 | 1 17/64 | 11.7 | 170 | 35.0 | 508 |
| 6.35 | 1/4 | 13.2 | 33/64 | 40 | 1 37/64 | 9.3 | 135 | 28.0 | 406 |
| 7.93 | 5/16 | 15 | 19/32 | 45 | 1 25/32 | 7.7 | 111 | 23.0 | 334 |
| 9.52 | 3/8 | 16.6 | 21/32 | 55 | 2 11/64 | 7.0 | 102 | 21.0 | 305 |
| 12.7 | 1/2 | 20.3 | 51/64 | 70 | 2 3/4 | 5.7 | 82 | 17.0 | 247 |
| 15.87 | 5/8 | 24.5 | 31/32 | 85 | 3 11/32 | 4.3 | 63 | 13.0 | 189 |
| 19.05 | 3/4 | 27.9 | 1 7/64 | 95 | 3 3/4 | 3.7 | 53 | 11.0 | 160 |
| 22.22 | 7/8 | 31.3 | 1 15/64 | 110 | 4 21/74 | 3.3 | 48 | 10.0 | 145 |
| 25.4 | 1 | 34.5 | 1 23/64 | 135 | 5 5/16 | 3.0 | 44 | 9.0 | 131 |
| 31.75 | 1 1/4 | 40.8 | 1 39/64 | 160 | 6 19/64 | 2.3 | 34 | 7.0 | 102 |

Construction

This reference is manufactured by extrusion with polyester yarn braiding inside the tube.

Use Precautions

- The extreme working conditions or the use of materials with low compatibility with the silicone can attack the inner surface of the hose. It is advisable to inspect the inner appearance for cracks or swelling and replacement of the hose. if necessary.
- Hose cover: should be inspected over the entire length for signs of hardening, abrasion, cuts, kinking or crushing.