

## Venaflon® HF

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### Applications

It is specially recommended for the transport of liquid or semi-liquid fluids in the food, cosmetic, chemical and pharmaceutical industries.

This hose presents a wide field of application due to its construction which gives it a balance between strength and lightness. The inner layer for this hose is made of PFA (Perfluoroalkoxy) which has a high compatibility with highly aggressive chemicals.

This hose is able to transport liquid or semi-liquid food-stuffs by impulsion or suction, since its design can resist either pressure or vacuum.

### Properties

- Odorless, tasteless and completely non-toxic.
- High flexibility.
- White and smooth appearance of the inner layer of PFA, translucent and smooth appearance of the outer silicone 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).
- Upon request it can be equipped with Clamp fittings with an inner cover of PFA.
- Operational temperature range from -30°C (-22 F) to +150°C (302 F).
- The hose is manufactured in a maximum length of 20m (65.62 ft).
- The vacuum resistance is 0.9 bar (13.05 psi).

### Limitations

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with the inner PFA.

### Regulations

The inner layer of PFA is in compliance of:

- US FDA Standard 21 CFR 177.1550
- USP Class VI <88> in vivo tests
- USP Class VI <87> in vitro tests
- ISO 10993-5, 10 y 11
- Reg 1935/2004/EEC, and Reg 10/2011/EEC

The outer silicone layer is in compliance of:

- US FDA Standard 21 CFR 177.2600
- USP Class VI <88> in vivo tests
- USP Class VI <87> in vitro tests
- ISO 10993-5, 10 y 11
- European Pharmacopoeia 3.1.9

### Technical Specifications



Inner Diameter		Wall Thickness		Working Pressure ISO 1402/2009		Bending Radius ISO 1746/1998	
<i>mm</i>	<i>inch</i>	$\pm 0.8mm$	$\pm 0.03inch$	<i>Bar at 20°C</i>	<i>Psi at 68°F</i>	<i>mm</i>	<i>inch</i>
13.0	1/2	5.0	0.20	10	145.04	45	1.47
16.0	5/8	6.0	0.24	10	145.04	55	2.17
19.0	3/4	6.0	0.24	10	145.04	65	2.56
25.0	1	6.0	0.24	10	145.04	85	3.35
32.0	1 1/4	6.0	0.24	10	145.04	120	4.72
38.0	1 1/2	6.5	0.26	10	145.04	140	5.51
51.0	2	8.0	0.31	10	145.04	180	7.09
63.5	2 1/2	8.0	0.31	8	116.03	320	12.60
76.0	3	8.0	0.31	6	87.02	380	14.96

### Construction

This reference is manufactured with a white inner layer of PFA (Perfluoroalkoxy), polyester reinforcements and a stainless steel (AISI 304) spring wire encased.