



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.

Due to the inner FKM layer it is especially recommended to convey aggressive fluids that are not compatible with silicone. These hoses are able to transport liquid or semi-liquid foodstuffs at high temperatures by impulsion or suction, since their design can resist pressure or vacuum.

Limitations

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with the FKM.

Incompatible with ketones such acetone

This product is not recommended for the transport of abrasive particles

Regulations

The inner FKM layer is in compliance with:

- US FDA Standard 21 CFR 177.2600
- Regulation 10/2011/EC and Reg 1935/2004/EC.

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

The 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.
- Smooth inner appearance, white and smooth outer appearance.
- Resistant to amines, caustics and hydrocarbon fluids.
- 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 ranges from -30°C (-22°F) to +180°C (356°F).
- The standard manufacturing length is 4 meters long (13.12 ft.), but in specific diameters a length of 6 meters (19.69 ft) can be manufactured.
- The vacuum resistance for this hose is 0.91 Bar (13.23 psi).

Technical Specifications

Inner Diameter		Wall thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Bending Radius ISO 1746/2000	
mm	inch	+1/-0.5 mm	+0.04/-0.02 inch	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F	mm	inch
25	1	6.5	0.26	13.3	192.9	40.0	580.2	111	4.37
38	1 ½	6.5	0.26	10.3	149.4	31.0	449.6	159	6.26
51	2	6.5	0.26	8.3	120.4	25.0	362.6	209	8.23
63	2 ½	6.5	0.26	6.7	97.2	20.0	290.1	237	9.33
76	3	6.5	0.26	5.3	76.9	16.0	232.1	346	16.62
102	4	7.2	0.28	3.7	53.7	11.0	159.5	412	16.22

Construction

This reference is manufactured with three polyester fabric reinforcements and a stainless steel wire spring, everything encased inside the hose. The inner layer is made with FKM rubber (a synthetic fluoropolymer).