

Product Information

Vena® Technosil

APPLICATIONS

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

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

This type of hose is not recommended for operation with negative pressure (vacuum).

Chemical compatibility of the fluid with the silicone.

Not recommended for transport of abrasive particles.

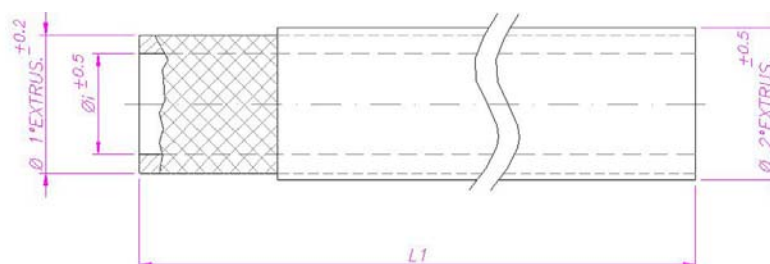
HOSE PROPERTIES

- Odorless, tasteless and completely non-toxic.
- These tubes are usually translucent. However, in order to distinguish the products conveyed through the inside of the tube, they can also be manufactured so that the outer part of the tube is the desired colour.
- This reference meets the 1935/2004/EC Regulation and European Council Resolution AP 2004 (5) – silicones.
- This reference is in compliance with FDA 21 CFR 177.2600 (Food & Drug Administration) and BfR Recommendation XV.
- This reference is in compliance with KTW/DVGW, Hygienic Assessment of Organic Materials in Contact with water intended for human consumption (drinking water).
- Manufactured with silicone elastomer in accordance with EU Directive 2002/95/ECC of Restriction of the use of certain hazardous substances (RoHS).
- Can be equipped with 316L stainless steel fittings on each end with a rugosity value of less than 0,8µm (or 0,5µm on request).
- Operational temperature range from -60 to +180°C (it may reach up to 200°C during short periods of time).
- The standard manufacturing length is 10 meters long, although they can be manufactured in any length required.
- Working and bursting pressure determinate with pressure tests according ISO 1402/1994.

TECHNICAL SPECIFICATIONS

Inner diameter (mm)	e-Wall thickness (mm)	Outer diameter (mm)	Working pressure (bar) water at 20° C	Bursting pressure (bar) water at 20° C
6,3	3,45 ± 0,5	13,2	9,3	28
7,9	3,55 ± 0,5	15	7,7	23
9,5	3,55 ± 0,5	16,6	7	21
12,7	3,8 ± 0,5	20,3	5,7	17
15,9	4,3 ± 0,5	24,5	4,3	13

Inner diameter (mm)	e-Wall thickness (mm)	Outer diameter (mm)	Working pressure (bar) water at 20° C	Bursting pressure (bar) water at 20° C
19	4,45 ± 0,5	27,9	3,7	11
22,2	4,55 ± 0,5	31,3	3,3	10
25,4	4,55 ± 0,5	34,5	3	9
31,2	4,8 ± 0,5	40,8	2,3	7



SILICONE PROPERTIES

The silicone rubber compound is VMQ type (Vinyl-Methyl Quality). The typical properties of the inner silicone are listed below:

Property	Method	Unit	Value
Hardness	ASTM* D-2240	Shore-A	70±5
Specific gravity	ASTM* D-792	g/cm ³	1.190±0.020
Tensile strength	ASTM* D-412	MPa	>6
Elongation at break	ASTM* D-412	%	>300
Tear Strength	ASTM* D-624	kN/m	>20

The typical properties of the outer silicone are:

Property	Method	Unit	Value
Hardness	ASTM* D-2240	Shore-A	60±5
Specific gravity	ASTM* D-792	g/cm ³	1.160±0.020
Tensile strength	ASTM* D-412	MPa	>6
Elongation at break	ASTM* D-412	%	>300
Tear Strength	ASTM* D-624	kN/m	>20

* ASTM: American Standard Testing Method

CONSTRUCTION AND FABRIC PROPERTIES

This reference is manufactured by extrusion with polyester yarn braiding inside the tube. The typical properties of this fabric are:

Property	Method	Unit	Value
Tensile Strength		daN	8±0,50
Breaking elongation		%	12,30±0,60