

Peroxide Cured Hoses

**Braid-Reinforced Silicone Peroxide Hose
FDA USP-VI**

**Silbrade
Medical**

SILBRADE MEDICAL's construction consists of a core of silicone elastomer, an open polyester braid reinforcing layer, and a cover layer of silicone elastomer. Good manufacturing procedures including lot traceability, are applicable to all Class VI ingredients. SILBRADE MEDICAL is a peroxide-cured product.

The hose's smooth bore, coupled with its resistance to allow material to adhere to the tube wall, facilitates easy cleaning and system purging. SILBRADE MEDICAL may be low pressure sterilized in-line or autoclaved up to 250°F in a normal autoclaving cycle. If exposed to repeated steam sterilization or long-term high temperature or pressure, silicone will eventually relax and become gummy. It should then be replaced. Care is recommended in the selection and application of fittings and clamps, as sharp barded fittings or unlined clamps could tear into the hose wall and possibly cause a failure, especially at elevated pressures.

Peroxide-cured SILBRADE MEDICAL hose is supplied in individual, non-sterile, heat-sealed polybags and should be sterilized prior to use. SILBRADE MEDICAL is not recommended for implantable or in-body uses or for continuous steam applications.



KEY FEATURES

- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Raw materials meet FDA requirements per FDA 21CFR 177.2600 for use with food contact surfaces
- Finished product meets USP Class VI requirements
- Reusable - will withstand repeated sterilization
- Translucent natural color for visual contact with the flow
- Able to resist extreme temperature variation: -99°F to 350°F
- Odorless, tasteless, and inert
- Manufactured under good manufacturing procedures in a controlled environment
- Free of BPA, latex and phthalates
- REACH and RoHS compliant



Made in U.S.A.

SPECIFICATIONS

Product Number	I.D. Ins. diameter (in.)	O.D. Outs. diameter (in.)	Wall (in.)	Working Pres. at 70°F (21.1°C) (PSI)	Burst Pres. at 70°F (21.1°C) (PSI)	LBS 100 ft
291 0257	3/16	0.447	0.130	216	648	7
291 0334	1/4	0.520	0.135	208	624	9
291 0411	5/16	0.592	0.140	183	549	11
291 0488	3/8	0.655	0.140	166	498	13
291 0565	1/2	0.800	0.150	141	423	17
291 0719	3/4	1.100	0.175	91	273	28
291 0873	1	1.380	0.190	75	225	36

Sold by standard coil length only (25 ft.). Add length suffix to part number when ordering.

Example: 25 ft. of 3/16" I.D. hose is part number 291 0257-25.

*Burst pressures can be expected to decrease by at least 20% for each 200°F increase up to 350°F.
BOLD indicates the critical dimension for fittings application.

PHYSICAL PROPERTIES**

● Hardness, Shore A±5 - Liner	70
● Hardness, Shore A±5 - Cover	60
● Tensile Strength, psi	1460
● Elongation at Break, %	320
● Tear Resistance, Die B, ppi	100
● Modulus at 100%, psi	415
● Brittle Temperature, °F	-99
● Maximum Operating Temperature, °F	350

**Values listed are typical for the material used in manufacture except where noted, apply to the hose liner except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Similar Hoses

Medical Grade Braid reinforced	Silbrade Medical
Peroxide Cured Silicone Hose	Silbrade
Silicone Textile Reinforced Hose	SPSH-PE
Silicone Textile Reinforced Hose	SPSH-PE*

Braid-Reinforced Silicone Peroxide Hose FDA

SILBRADE

The construction of SILBRADE enables silicone tubing to handle increased pressure applications.

SILBRADE offers outstanding resistance to temperature extremes and is made from raw materials that meet FDA requirements.

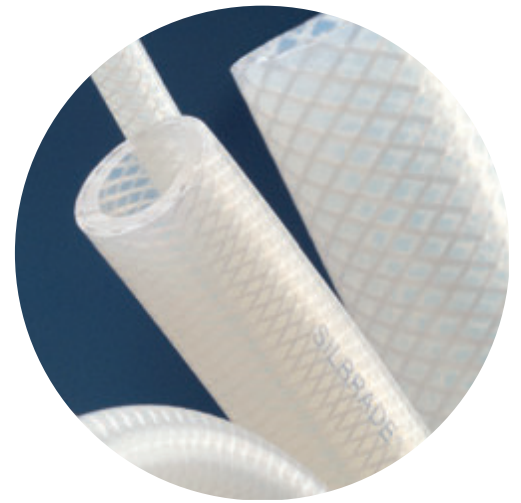
The flexible design and construction of SILBRADE also allows excellent bend radii and permits installation in restricted spaces without impeding flow.

SILBRADE, a peroxide-cured product, contains no sulfur or other acid-producing chemicals thereby eliminating the possibility of staining, corroding, or deteriorating other materials it contacts. It is also resistant to ozone and U.V. over long time periods.

Care is recommended in the selection of fittings and clamps, as sharp barbed fittings or unlined metal clamps could tear into the hose wall and possibly cause a failure, especially at elevated pressures.

SILBRADE may be low pressure steam sterilized in-line or autoclaved at up to 250°F in a normal autoclaving cycle. However, if exposed to repeated steam sterilization or long-term high temperature or pressure, silicone will eventually relax and become gummy. It should then be replaced.

SILBRADE is not recommended for implantable or in-body uses or for continuous steam applications.



KEY FEATURES

- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Raw materials meet FDA requirements per FDA 21CFR 177.2600 for use with food contact surfaces
- Reusable - will withstand repeated sterilization
- Translucent natural color for visual contact with the flow
- Able to resist extreme temperature variation: -99°F to 350°F
- Odorless, tasteless, and inert
- Excellent weatherability properties - resists U.V., ozone, gases, moisture, and extreme temperatures
- Offers far higher pressure capabilities than similarly-sized unreinforced silicone tubing
- Listed by the National Sanitation Foundation (NSF-51) for food equipment materials
- Free of BPA, latex and phthalates
- REACH and RoHS compliant



SPECIFICATIONS

I.D. Ins. diameter (in.)	O.D. Outs. diameter (in.)	Wall (in.)	Working Pres. at 70°F (21.1°C) (PSI)	Standard Length (Ft)	LBS 100 ft
1/8	0.365	0.120	233	100	5
3/16	0.447	0.130	216	100	7
1/4	0.520	0.135	208	100	9
5/16	0.592	0.140	183	100	11
3/8	0.655	0.140	166	100	13
1/2	0.800	0.150	141	50, 100	17
5/8	0.965	0.170	116	50	23
3/4	1.100	0.175	91	50	28
1.000	1.380	0.180	75	25, 50	36

Cut coils are available charges apply - call for details.

Add length suffix to part number when ordering. Example: 100 ft. of 1/8" I.D. x 0.365" O.D. hose is part number 290 0072-100.

Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.

BOLD indicates the critical dimension for fittings application.

PHYSICAL PROPERTIES**

● Hardness, Shore A±5 - Liner	70
● Hardness, Shore A±5 - Cover	60
● Tensile Strength, psi	1460
● Elongation at Break, %	320
● Tear Resistance, Die B, ppi	100
● Modulus at 100%, psi	415
● Brittle Temperature, °F	-99
● Maximum Operating Temperature, °F	350

**Values listed are typical for the material used in manufacture except where noted, apply to the hose liner except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Similar Hoses

Medical Grade Braid reinforced

Silbrade
Medical

Peroxide Cured Silicone Hose

Silbrade

Silicone Textile Reinforced Hose

SPSH-PE

Silicone Textile Reinforced Hose

SPSH-PE*

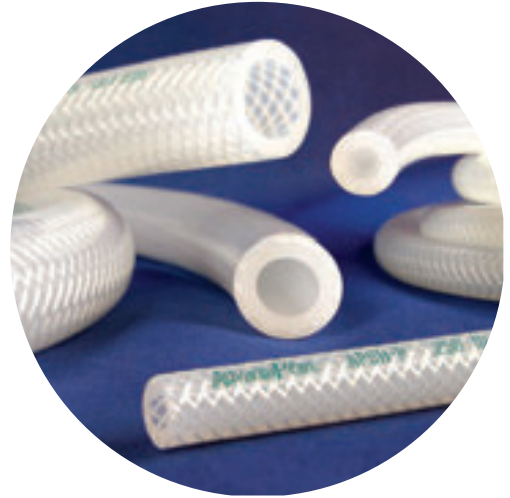
**Braid-Reinforced Silicone Peroxide Hose
FDA**

SPSH-PE

From all the success we have had with the peroxide extra-flex hygienic range, we felt it was time that we started supplying the same grade in our extruded glass fiber reinforced silicone hose. For peroxide reinforced tubing and hose, we can now offer all sizes below along with our peroxide range where USP Class VI is not as critical. Manufactured to FDA 21 CFR 177.2600.

Colored outer is also available in our standard sizes where translucent peroxide can be maintained on the inner.

A continuously extruded platinum reinforced silicone rubber tubing. Standard reinforcement of glass fiber braiding sandwiched between vulcanized layers of silicone rubber. A working temperature of 220°C is therefore attainable with hot air sterilization to 250°C. Vapour sterilization to 3.8 bar. Every coil is tested to recommended working pressure (DIN 20024). Stock bore size range 3.0mm to 32.0mm. Silicone rubber liner material to FDA 177.2600.



KEY FEATURES

- Silicone compounds can be engineered to suit a particular requirement or specification, for example, limits of temperature, fire resistance/flamability etc.
- High temperature variants can be engineered to 316°C continuous working.
- Variation in color to BS or RAL spec numbers
- Braid, pitch and gauge varied along with silicone thickness to achieve variation in pressure rating

SPECIFICATIONS

Product Number	I.D. Ins. diameter		O.D. Outs. diameter		Working Pres. at 70°F (21.1°C)		Burst Pres. at 70°F (21.1°C)		Appr. Weight	
	(in.)	(mm.)	(in.)	(mm.)	(PSI)	(Bar)	(PSI)	(Bar)	(Lbs/ft)	(Kg/mt)
SPSH-PE-0118-0354	0.118	3.00	0.354	9.00	444	30.61	888	61.23	0.118	3.00
SPSH-PE-0157-0393	0.157	4.00	0.394	10.00	440	30.34	880	60.67	0.118	3.00
SPSH-PE-0197-0433	0.197	5.00	0.433	11.00	350	24.13	700	48.26	0.118	3.00
SPSH-PE-0236-0472	0.236	6.00	0.472	12.00	259	17.86	518	35.71	0.118	3.00
SPSH-PE-0315-0590	0.315	8.00	0.591	15.00	185	12.76	370	25.51	0.138	3.50
SPSH-PE-0394-0669	0.394	10.00	0.669	17.00	185	12.76	370	25.51	0.138	3.50
SPSH-PE-0492-0767	0.492	12.50	0.768	19.50	186	12.76	370	25.51	0.138	3.50
SPSH-PE-0629-1024	0.630	16.00	1.024	26.00	163	11.24	326	22.48	0.197	5.00
SPSH-PE-0748-1181	0.748	19.00	1.181	30.00	148	10.20	296	20.41	0.217	5.50
SPSH-PE-0866-1339	0.866	22.00	1.339	34.00	133	9.17	266	18.34	0.236	6.00
SPSH-PE-0984-1457	0.984	25.00	1.457	37.00	111	7.65	222	15.31	0.236	6.00

Similar Hoses

Medical Grade Braid reinforced

Silbrade Medical

Peroxide Cured Silicone Hose

Silbrade

Silicone Textile Reinforced Hose

SPSH-PE

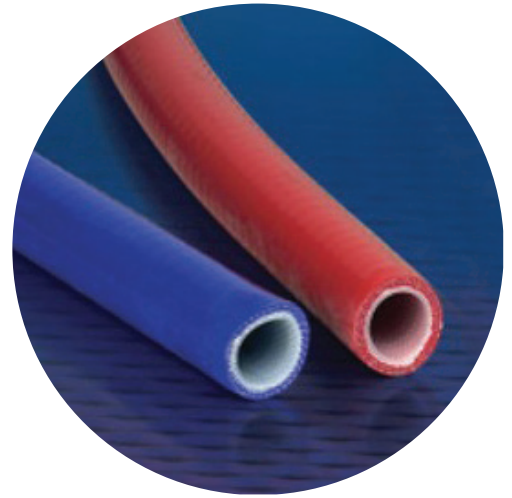
Silicone Textile Reinforced Hose

SPSH-PE*

**Braid-Reinforced Silicone Peroxide Polyester
Hose FDA**

SPSH-PE*

Silicone hose reinforced with polyester braiding. It has excellent flexibility for pressurized fluid transfer application in pharmaceutical and biotech industries. Manufactured to FDA 21 CFR 177.2600. Colored outer is also available in our standard sizes where translucent extruded peroxide reinforcement of glass fiber braiding sandwiched between vulcanized layers of silicone rubber. A working temperature off 220C is therefore attainable with hot air sterilization to 250C. Vapour sterilization to 3.8 bar. Every coil is tested to recommended working pressure (Din 20024). Stock bore size range 3.0mm to 32.0mm. Silicone rubber liner material to FDA 177.2600.



KEY FEATURES

- Silicone compounds can be engineered to suit a particular requirement or specification, for example, limits of temperature, fire resistance/flam- mability etc.
- High temperature variants can be engineered to 316°C continuous working.
- Variation in color to BS or RAL spec numbers
- Braid, pitch and gauge varied along with silicone thickness to achieve variation in pressure rating

SPECIFICATIONS

Product Number	I.D. Ins. diameter		O.D. Outs. diameter		Wall		Working Pres. at 70°F (21.1°C)		Burst Pres. at 70°F (21.1°C)	
	(in.)	(mm.)	(in.)	(mm.)	(in.)	(mm.)	(PSI)	(Bar)	(PSI)	(Bar)
SPSH-PE-0118-0354*	0.118	3.00	0.354	9.00	0.118	3.00	444	30.61	888	61.23
SPSH-PE-0157-0393*	0.157	4.00	0.394	10.00	0.118	3.00	440	30.34	880	60.67
SPSH-PE-0197-0433*	0.197	5.00	0.433	11.00	0.118	3.00	350	24.13	700	48.26
SPSH-PE-0236-0472*	0.236	6.00	0.472	12.00	0.118	3.00	259	17.86	518	35.71
SPSH-PE-0315-0590*	0.315	8.00	0.591	15.00	0.138	3.50	185	12.76	370	25.51
SPSH-PE-0394-0669*	0.394	10.00	0.669	17.00	0.138	3.50	185	12.76	370	25.51
SPSH-PE-0492-0767*	0.492	12.50	0.768	19.50	0.138	3.50	186	12.76	370	25.51
SPSH-PE-0629-1024*	0.630	16.00	1.024	26.00	0.197	5.00	148	10.20	296	20.41
SPSH-PE-0748-1181*	0.748	19.00	1.181	30.00	0.217	5.50	148	10.20	296	20.41
SPSH-PE-0866-1339*	0.866	22.00	1.339	34.00	0.236	6.00	133	9.17	266	18.34
SPSH-PE-0984-1457*	0.984	25.00	1.457	37.00	0.236	6.00	111	7.65	222	15.31

The last digit () refers to external hose color B for Blue, R for Red

Similar Hoses

Medical Grade Braid reinforced

Silbrade
Medical

Peroxide Cured Silicone Hose

Silbrade

Silicone Textile Reinforced Hose

SPSH-PE

Silicone Textile Reinforced Hose

SPSH-PE*