

Silbrade® & Silcon®

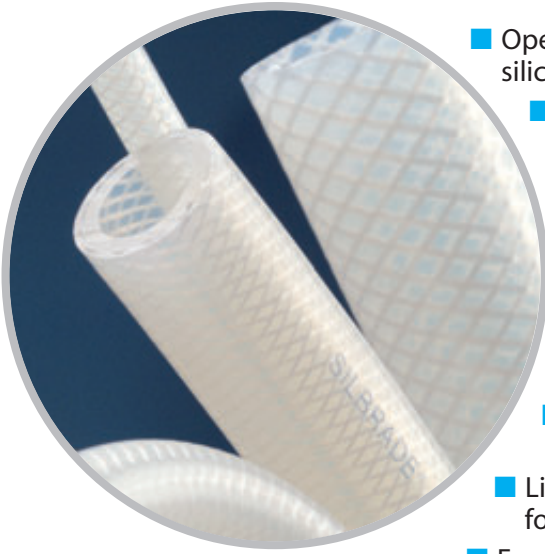
Silicone Hose & Tubing



ESOP Employee Owned
for Your Benefit

Fluid Transfer Specialists®

Braid Reinforced Silicone Hose



- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Raw materials meet FDA requirements per FDA 21 CFR 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; RoHS compliant



Notes

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 sulphur 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.

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.

PART NO.	ID (IN.)	OD (IN.)	WALL (IN.)	STANDARD LENGTHS (FT.)	WORKING PSI AT 70°F	LBS. PER 100 FT.
290 0072	1/8	.365	.120	100	233	5
290 0149	3/16	.447	.130	100	216	7
290 0226	1/4	.520	.135	100	208	9
290 0303	5/16	.592	.140	100	183	11
290 0380	3/8	.655	.140	100	166	13
290 0457	1/2	.800	.150	50, 100	141	17
290 0534	5/8	.965	.170	50	116	23
290 0611	3/4	1.100	.175	50	91	28
290 0765	1	1.380	.190	50	75	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 .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.



Recommended Fittings & Clamps

- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Custom Services

- Cut ■ Color
- Size ■ Hardness ■ Overbraid ■ And More

Call for more information: 800-506-3924 or 215-526-2300

Silicone Tubing

- Raw materials meet FDA requirements per FDA 21 CFR 177.2600 for use with food contact surfaces
- Able to resist extreme temperature variation: -100°F to 500°F (350°F maximum for NSF applications)
- Translucent natural color for visual contact with the flow
- Resilient, stretchable, and resistant to compression set
- Reusable — will withstand repeated sterilization[^]
- Odorless, tasteless, and inert
- Good electrical and weatherability properties — resists U.V., ozone, gases, and moisture
- Listed by the National Sanitation Foundation (NSF-51) for food equipment materials[‡]
- Free of BPA, latex and phthalates; RoHS compliant



PART NO.	ID (IN.)	OD (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F*	LBS. PER 100 FT.
280 0084	1/16	1/8	100	10	0.50
280 0161	1/16	3/16	100	20	1.34
280 0315	3/32	5/32	100	10	0.66
280 0392	3/32	7/32	100	15	1.58
280 0469	1/8	3/16	100	10	0.88
280 0546	1/8	1/4	100	20	2.00
280 0623	1/8	5/16	100	25	3.32
280 0700	1/8	3/8	100	28	4.92
280 0854	5/32	9/32	100	20	2.14
280 0931	5/32	11/32	100	20	3.64
280 1008	3/16	1/4	100	5	1.22
280 1085	3/16	5/16	100	20	2.64
280 1162	3/16	3/8	100	20	4.12
280 1239	3/16	7/16	100	15	6.14
280 1393	1/4	5/16	100	10	1.50
280 1470	1/4	3/8	100	5	3.34
280 1547	1/4	7/16	100	20	5.12
280 1624	1/4	1/2	100	15	7.50
280 1778	5/16	7/16	100	10	3.66
280 1855	5/16	1/2	100	10	6.30
280 1932	3/8	1/2	100	10	4.32
280 2009	3/8	9/16	100	10	7.14
280 2086	3/8	5/8	100	10	10.16
280 2163	3/8	3/4	100	15	16.72
280 2240	7/16	5/8	100	10	7.70
280 2317	1/2	5/8	100	5	5.84
280 2394	1/2	11/16	100	5	9.50
280 2471	1/2	3/4	100	10	13.12
280 2548	1/2	7/8	100	10	15.00
280 2625	5/8	3/4	100	5	6.86
280 2702	5/8	13/16	100	5	11.34
280 2779	5/8	7/8	100	5	13.38
280 2856	5/8	1	100	10	22.86
280 3087	3/4	1	50	5	17.64
280 3164	3/4	1-1/8	50	10	26.56

Add length suffix to part number when ordering. Example: 100 ft. of 1/16" I.D. x 1/8" O.D. tubing is part number 280 0084-100.

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.



Custom Services

- **Cut** ■ **Size** ■ **Color** ■ **Hardness** ■ **And More**

Call for more information: **800-506-3924** or **215-526-2300**

Notes

The most outstanding properties of SILCON are its flexibility and resistance to temperature extremes. These, plus its good electrical properties and ability to self-extinguish, make SILCON an excellent choice for appliances and computers.

Peroxide-cured SILCON contains no sulphur or other acid-producing chemicals, thereby eliminating the possibility of staining, corroding, or deteriorating materials it contacts. It is extremely resistant to ozone and U.V. over long time periods.

Care is recommended in the selection of fittings and clamps for SILCON as sharp barbed fittings or unlined metal clamps could tear into the tubing wall and possibly cause a failure.

[^]SILCON 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.

Colors for industrial applications are available through minimum order — call for details.

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

Physical Properties**

Hardness, Shore A ±5	50
Tensile Strength, psi	1444
Elongation at Break, %	608
Tear Resistance, Die B, ppi	125
Modulus at 100%, psi	186
Brittle Temperature, °F	-100
Max. Operating Temperature, °F	500
Max. Operating Temperature for NSF, °F	350

**Values listed are typical for the material used in manufacture, 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.

Recommended Fittings & Clamps

- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps



Silbrade® Medical Medical Grade Braid Reinforced Silicone Hose

- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Finished product meets USP Class VI requirements
- Able to resist extreme temperature variation: -99°F to 350°F
- Odorless, tasteless, and inert
- Raw materials meet FDA requirements for use with food contact surfaces



Silcon® Med-X Platinum Cured Medical Grade Silicone Tubing

- Platinum cured for the highest degree of purity (least extractables)
- Manufactured under good manufacturing practices in a controlled environment
- Reusable — will withstand repeated sterilization
- Applications include pharmaceutical, biomedical, health and beauty, food, and beverage handling



Silbrade® Platinum Platinum Cured Silicone Hose

- Platinum cured for the highest degree of purity
- NSF-51 listed for food equipment materials
- Odorless, tasteless, and inert
- Open mesh polyester braiding incorporated within walls of silicone offers increased pressure capabilities
- Able to resist extreme temperature variation: -100°F to 400°F

Request a Silicone catalog

Inside you'll find details on all of NewAge Industries' silicone products. Catalogs for PVC, polyurethane, fluoropolymer, rubber, and semi-rigid tubing and hose are available, as well as barbed fittings and clamps, push-to-connect fittings, and custom products. Contact your NewAge Industries' sales representative or local distributor to request a copy of the catalog you need, or visit www.newageindustries.com.



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