

# Silbrade<sup>®</sup> & Silcon<sup>®</sup>

Silicone Hose & Tubing



Celebrating over

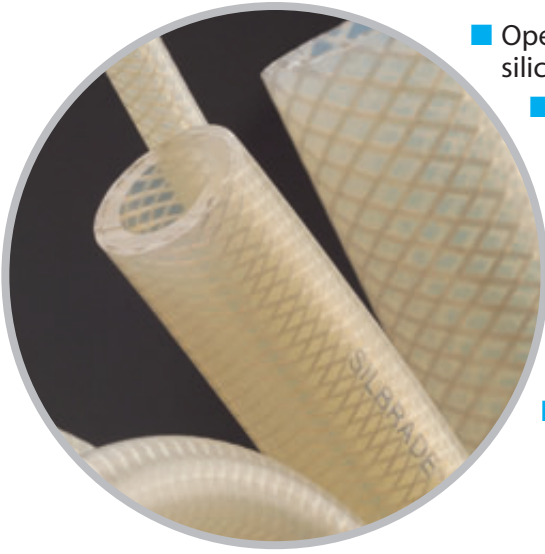
**50**  
Years  
of Service  
1954-2007

**ESOP** Employee Owned  
for Your Benefit



Fluid Transfer Specialists<sup>®</sup>

## Braid Reinforced Silicone Hose



- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Made from FDA-sanctioned ingredients
- Translucent natural color for visual contact with the flow
- Able to resist extreme temperature variation: -80°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)



### Notes

The construction of SILBRADE enables silicone tubing to handle increased pressure applications. SILBRADE offers outstanding resistance to temperature extremes and is made from FDA-sanctioned ingredients.

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

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.

### Physical Properties\*\*

|                                   |      |
|-----------------------------------|------|
| Hardness, Shore A ±5 – Core       | 70   |
| Hardness, Shore A ±5 – Cover      | 60   |
| Tensile Strength, psi             | 1000 |
| Elongation at Break, %            | 350  |
| Brittle Temperature, °F           | -80  |
| Maximum Operating Temperature, °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.

| PART NO. | ID (IN.) | OD (IN.) | WALL (IN.) | STANDARD LENGTH (FT.) | WORKING PSI AT 70°F | BURST PSI AT 70°F* | LBS. PER 100 FT. |
|----------|----------|----------|------------|-----------------------|---------------------|--------------------|------------------|
| 290 0072 | 1/8      | .365     | .120       | 100                   | 233                 | 699                | 5                |
| 290 0149 | 3/16     | .447     | .130       | 100                   | 216                 | 648                | 7                |
| 290 0226 | 1/4      | .520     | .135       | 100                   | 208                 | 624                | 9                |
| 290 0303 | 5/16     | .592     | .140       | 100                   | 183                 | 549                | 11               |
| 290 0380 | 3/8      | .655     | .140       | 100                   | 166                 | 498                | 13               |
| 290 0457 | 1/2      | .800     | .150       | 100                   | 141                 | 423                | 17               |
| 290 0534 | 5/8      | .965     | .170       | 50                    | 116                 | 348                | 23               |
| 290 0611 | 3/4      | 1.100    | .175       | 50                    | 91                  | 273                | 28               |
| 290 0765 | 1        | 1.380    | .190       | 50                    | 75                  | 225                | 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.

\*The burst pressure 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.



### Recommended Fittings & Clamps

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

### Additional Services



## Silicone Tubing

- Made from FDA-sanctioned ingredients
- Able to resist extreme temperature variation: -100°F to 500°F†
- Translucent natural color for visual contact with the flow
- Resilient, stretchable, and resistant to compression set
- Odorless, tasteless, and inert
- Good electrical and weatherability properties — resists U.V., ozone, gases, and moisture
- Listed by the National Sanitation Foundation (NSF 51)†



| PART NO. | ID (IN.) | OD (IN.) | STANDARD LENGTH (FT.) | WORKING PSI AT 70°F* | BURST PSI AT 70°F | LBS. PER 100 FT. |
|----------|----------|----------|-----------------------|----------------------|-------------------|------------------|
| 280 0084 | 1/16     | 1/8      | 100                   | 10                   | 30                | 0.50             |
| 280 0161 | 1/16     | 3/16     | 100                   | 20                   | 60                | 1.34             |
| 280 0315 | 3/32     | 5/32     | 100                   | 10                   | 30                | 0.66             |
| 280 0392 | 3/32     | 7/32     | 100                   | 15                   | 45                | 1.58             |
| 280 0469 | 1/8      | 3/16     | 100                   | 10                   | 30                | 0.88             |
| 280 0546 | 1/8      | 1/4      | 100                   | 20                   | 60                | 2.00             |
| 280 0623 | 1/8      | 5/16     | 100                   | 25                   | 75                | 3.32             |
| 280 0700 | 1/8      | 3/8      | 100                   | —                    | —                 | 4.92             |
| 280 0854 | 5/32     | 9/32     | 100                   | 20                   | 60                | 2.14             |
| 280 0931 | 5/32     | 11/32    | 100                   | 20                   | 60                | 3.64             |
| 280 1008 | 3/16     | 1/4      | 100                   | 5                    | 15                | 1.22             |
| 280 1085 | 3/16     | 5/16     | 100                   | 20                   | 60                | 2.64             |
| 280 1162 | 3/16     | 3/8      | 100                   | 20                   | 60                | 4.12             |
| 280 1239 | 3/16     | 7/16     | 100                   | 15                   | 45                | 6.14             |
| 280 1393 | 1/4      | 5/16     | 100                   | 10                   | 30                | 1.50             |
| 280 1470 | 1/4      | 3/8      | 100                   | 5                    | 15                | 3.34             |
| 280 1547 | 1/4      | 7/16     | 100                   | 20                   | 60                | 5.12             |
| 280 1624 | 1/4      | 1/2      | 100                   | 15                   | 45                | 7.50             |
| 280 1778 | 5/16     | 7/16     | 100                   | 10                   | 30                | 3.66             |
| 280 1855 | 5/16     | 1/2      | 100                   | 10                   | 30                | 6.30             |
| 280 1932 | 3/8      | 1/2      | 100                   | 10                   | 30                | 4.32             |
| 280 2009 | 3/8      | 9/16     | 100                   | 10                   | 30                | 7.14             |
| 280 2086 | 3/8      | 5/8      | 100                   | 10                   | 30                | 10.16            |
| 280 2163 | 3/8      | 3/4      | 100                   | 15                   | 45                | 16.72            |
| 280 2240 | 7/16     | 5/8      | 100                   | 10                   | 30                | 7.70             |
| 280 2317 | 1/2      | 5/8      | 100                   | 5                    | 15                | 5.84             |
| 280 2394 | 1/2      | 11/16    | 100                   | 5                    | 15                | 9.50             |
| 280 2471 | 1/2      | 3/4      | 100                   | 10                   | 30                | 13.12            |
| 280 2548 | 1/2      | 7/8      | 100                   | 10                   | 30                | 15.00            |
| 280 2625 | 5/8      | 3/4      | 100                   | —                    | —                 | 6.86             |
| 280 2702 | 5/8      | 13/16    | 100                   | 5                    | 15                | 11.34            |
| 280 2779 | 5/8      | 7/8      | 100                   | 5                    | 15                | 13.38            |
| 280 2856 | 5/8      | 1        | 100                   | 10                   | 30                | 22.86            |
| 280 3087 | 3/4      | 1        | 50                    | 5                    | 15                | 17.64            |
| 280 3164 | 3/4      | 1-1/8    | 50                    | 10                   | 30                | 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.

\*Performed on hydrostatic test equipment at ambient temperature; based on the ASTM D1599 method.

**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

### Additional Services



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

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.

### Physical Properties\*\*

|                                |      |
|--------------------------------|------|
| Hardness, Shore A ±5           | 50   |
| Tensile Strength, psi          | 1100 |
| Elongation at Break, %         | 375  |
| Brittle Temperature, °F        | -100 |
| Max. Operating Temperature, °F | 500† |
| Comp. Set, 22 hrs. at 177°F, % | 35   |
| Tear Resistance (ppi minimum)  | 100  |

\*\*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.

†When used in an NSF application, the maximum operating temperature is limited to 350°F.



## Silbrade<sup>®</sup> Medical Medical Grade Braid Reinforced Silicone Hose

- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Silicone elastomer meets USP Class VI and NSF-51 requirements
- Able to resist extreme temperature variation: -80°F to 350°F
- Odorless, tasteless, and inert
- All ingredients are non-toxic and FDA-sanctioned for use with food contact surfaces



## Silcon<sup>®</sup> Med-X Platinum Cured Medical Grade Silicone Tubing

- Silicone elastomer meets USP Class VI requirements
- Manufactured under strict Good Manufacturing Practices (GMP) in a controlled environment
- Platinum cured for the highest degree of purity (least extractables); reusable
- Applications include pharmaceutical, biomedical, health and beauty, food, and beverage handling



## Silvac<sup>®</sup> Polyester & Wire Reinforced Silicone Suction Hose

- Polyester woven fabric and spiral 316 stainless steel wire reinforcement in walls of silicone elastomer
- Offers full vacuum capability at high temperatures (29.9 in./Hg.)
- All ingredients are non-toxic and FDA-sanctioned for use in food contact surfaces
- Crush and kink resistant yet flexible
- Manufactured in a controlled environment on dedicated equipment

## Ask for our latest catalog

Inside you'll find details on all of NewAge Industries' tubing and hose products, plus Chemical Resistance Charts, Temperature and Measurement Conversions, and a Glossary. The custom section highlights thermal tube bonding, heat-formed shapes, coiling, and other fabrication services. Plastic and metal fittings and clamps are also included. Contact your NewAge Industries' sales representative or local distributor to request a free copy.



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