

# Medical Silicone Tubing & Hose

Peroxide or Platinum Cured

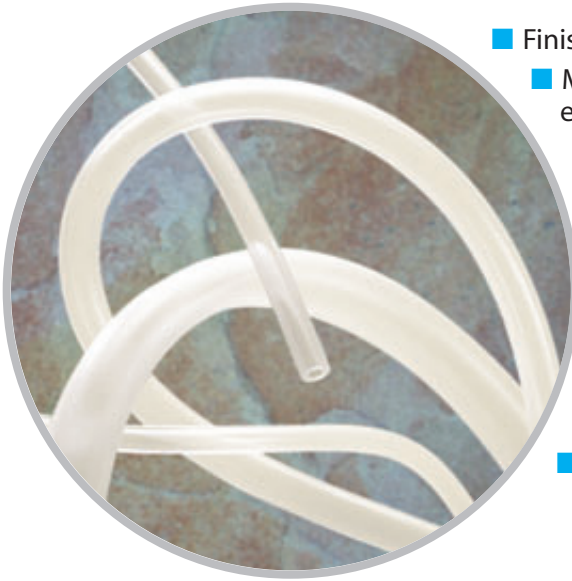


**ESOP** Employee Owned  
for Your Benefit

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**INDUSTRIES**

Fluid Transfer Specialists®

## Medical Grade Silicone Tubing



- Finished product meets USP Class VI requirements
- Manufactured under good manufacturing procedures in a controlled environment
- Able to resist extreme temperature variation: -100°F to 400°F
- Reusable — will withstand repeated sterilization<sup>^</sup>
- Translucent natural color for visual contact with the flow
- Odorless, tasteless, and inert
- Raw materials meet FDA requirements per FDA 21 CFR 177.2600 for use with food contact surfaces
- May be used on peristaltic pumps
- Free of BPA, latex and phthalates
- RoHS compliant



### Notes

SILCON MEDICAL tubing is made under good manufacturing procedures and conforms to the biocompatibility requirements of USP Class VI. SILCON MEDICAL's surface properties resist sticking and encrustation, and will not support bacteria growth. The tubing is soft, pliable, and contains no plasticizers which could leach out, causing flow contamination or tube hardening.

Care is recommended in the selection and application of fittings and clamps as sharp barbed fittings or unlined metal clamps could tear into the tubing wall.

<sup>^</sup>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.

Peroxide-cured SILCON MEDICAL tubing is supplied in individual, non-sterile, heat-sealed polybags and should be sterilized prior to use.

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

### Physical Properties\*\*

|                                   |      |
|-----------------------------------|------|
| Hardness, Shore A ±5              | 60   |
| Tensile Strength, psi             | 1305 |
| Elongation at Break, %            | 429  |
| Tear Resistance, Die B, ppi       | 177  |
| Modulus at 100%, psi              | 230  |
| Brittle Temperature, °F           | -100 |
| Maximum Operating Temperature, °F | 400  |

\*\*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.  | SUGGESTED SIZES FOR PUMPS <sup>††</sup> | ID (IN.) | OD (IN.) | WALL (IN.) | STANDARD LENGTH (FT.) |
|-----------|---|----------|----------|------------|-----------------------|
| 281 0304  |   | .030     | .065     | .018       | 50                    |
| 281 0381  |   | 1/32     | 5/32     | 1/16       | 50                    |
| 281 0458  | •                                       | .040     | .085     | .023       | 50                    |
| 281 0689  |   | 1/16     | 1/8      | 1/32       | 50                    |
| 281 0766  |   | 1/16     | 3/16     | 1/16       | 50                    |
| 281 0843  | •                                       | 5/64     | 1/8      | .024       | 50                    |
| 281 0920  |   | .104     | .192     | .044       | 50                    |
| 281 0997  |   | 1/8      | 1/4      | 1/16       | 50                    |
| 281 1151  |   | 3/16     | 5/16     | 1/16       | 50                    |
| 281 1228  | •                                       | 3/16     | 3/8      | 3/32       | 50                    |
| 281 1305  | •                                       | 1/4      | 3/8      | 1/16       | 50                    |
| 281 1382  | •                                       | 1/4      | 7/16     | 3/32       | 25                    |
| 281 1459  | •                                       | 1/4      | 1/2      | 1/8        | 25                    |
| 281 1536  |   | 5/16     | 7/16     | 1/16       | 25                    |
| 281 1613  | •                                       | 5/16     | 1/2      | 3/32       | 25                    |
| 281 1844  | •                                       | 3/8      | 5/8      | 1/8        | 25                    |
| 281 1921* |   | 1/2      | 5/8      | 1/16       | 25                    |

\*Limited stock availability; lead times and minimums may apply — call for details. Sold by standard coil length only. Add length suffix to part number when ordering.

Example: 50 ft. of .030" I.D. x .065" O.D. tubing is part number 281 0304-50.

<sup>††</sup>Most common peristaltic pump sizes based on I.D. and wall requirements.

**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
- Hardness
- Size
- And More

Call for more information  
800-506-3924

## Platinum Cured Medical Grade Silicone Tubing

- Raw materials meet USP Class VI requirements
- Manufactured under good manufacturing procedures in a controlled environment
- Platinum cured for the highest degree of purity (least extractables)
- Reusable — will withstand repeated sterilization<sup>^</sup>
- Translucent natural color for visual contact with the flow
- Applications include pharmaceutical, biomedical, health and beauty, food, and beverage handling
- Free of BPA, latex and phthalates
- RoHS compliant



Made in U.S.A.



| PART NO.  | ID (IN.) | OD (IN.) | WALL (IN.) |
|-----------|----------|----------|------------|
| 284 0404  | .030     | .160     | .065       |
| 284 0677  | 1/16     | 1/8      | 1/32       |
| 284 0684  | 1/16     | 3/16     | 1/16       |
| 284 0978  | 1/8      | 1/4      | 1/16       |
| 284 0985  | 1/8      | 5/16     | 3/32       |
| 284 1174  | 3/16     | 5/16     | 1/16       |
| 284 1181  | 3/16     | 3/8      | 3/32       |
| 284 1272  | 1/4      | 3/8      | 1/16       |
| 284 1279  | 1/4      | 7/16     | 3/32       |
| 284 1286  | 1/4      | 1/2      | 1/8        |
| 284 1370  | 5/16     | 7/16     | 1/16       |
| 284 1377  | 5/16     | 1/2      | 3/32       |
| 284 1468  | 3/8      | 1/2      | 1/16       |
| 284 1475  | 3/8      | 9/16     | 3/32       |
| 284 1482  | 3/8      | 5/8      | 1/8        |
| 284 1580  | 1/2      | 3/4      | 1/8        |
| 284 1678  | 5/8      | 7/8      | 1/8        |
| 284 1692* | 3/4      | 1        | 1/8        |
| 284 1685* | 1        | 1-1/2    | 1/4        |

\*Limited stock item; lead times and minimums may apply — call for details. Sold by standard coil length (50 ft); additional lengths may be available — call for details. Add length suffix to part number when ordering. Example: 50 ft. of .030" I.D. x .160" O.D. tubing is part number 284 0404-50. **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

- Size
- Hardness
- Color
- And More

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800-506-3924

### Notes

SILCON MED-X tubing is made under good manufacturing procedures and conforms to the biocompatibility requirements of USP Class VI.

SILCON MED-X's surface properties resist sticking and encrustation and will not support bacteria growth. The tubing is soft, pliable, and contains no plasticizers which could leach out, causing flow contamination or tube hardening.

Other sizes and 60A durometer material are also available — call for details.

Care is recommended in the selection and application of fittings and clamps as sharp barbed fittings or unlined metal clamps could tear into the wall.

<sup>^</sup>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.

SILCON MED-X is supplied in individual, heat-sealed polybags and should be sterilized prior to use.

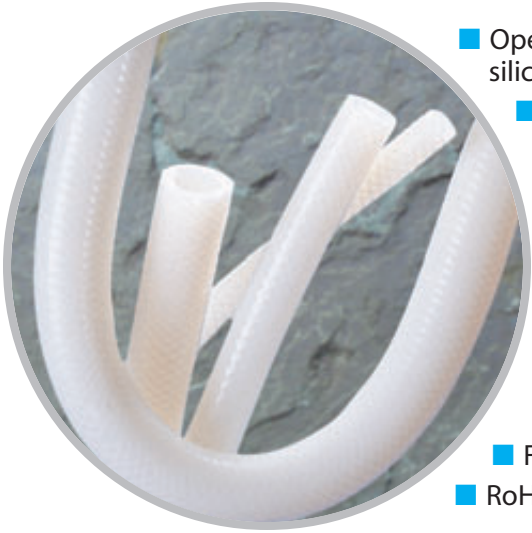
**SILCON MED-X is not recommended for implantable or in-body uses or for continuous steam applications.**

### Physical Properties\*\*

|                                   |      |
|-----------------------------------|------|
| Hardness, Shore A ±5              | 50   |
| Tensile Strength, psi             | 1348 |
| Elongation at Break, %            | 900  |
| Tear Resistance, Die B, ppi       | 250  |
| Modulus at 100%, psi              | 190  |
| Brittle Temperature, °F           | -100 |
| Maximum Operating Temperature, °F | 400  |

\*\*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.

## Medical Grade Braid Reinforced Silicone Hose



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



### Notes

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.

<sup>^</sup>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 barbed 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.**

### 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.) | WORKING PSI AT 70°F | LBS. PER 100 FT. |
|----------|----------|----------|------------|---------------------|------------------|
| 291 0334 | 1/4      | .520     | .135       | 208                 | 9                |
| 291 0411 | 5/16     | .592     | .140       | 183                 | 11               |
| 291 0488 | 3/8      | .655     | .140       | 166                 | 13               |
| 291 0565 | 1/2      | .800     | .150       | 141                 | 17               |
| 291 0719 | 3/4      | 1.100    | .175       | 91                  | 28               |
| 291 0873 | 1        | 1.380    | .190       | 75                  | 36               |

Sold by standard coil length only (25 ft.). Add length suffix to part number when ordering. Example: 25 ft. of 1/4" I.D. hose is part number 291 0334-25.

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

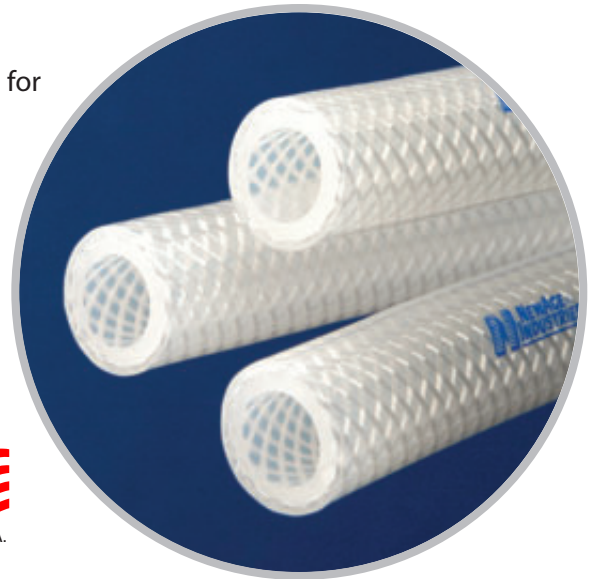
### Custom Services

- Cut
- Overbraid
- Size
- And More

Call for more information  
800-506-3924

## Platinum Cured Braid Reinforced Silicone Hose

- Platinum cured for the highest degree of purity
- Raw materials meet FDA requirements per FDA 21 CFR 177.2600 for use with food contact surfaces
- Listed by the National Sanitation Foundation (NSF-51) 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
- Translucent natural color for visual contact with the flow
- Kink resistant yet highly flexible
- Reusable — will withstand repeated sterilization<sup>^</sup>
- Excellent weatherability properties — resists U.V., ozone, gases, moisture, and extreme temperatures
- Manufactured in a controlled environment
- Free of BPA, latex and phthalates
- RoHS compliant



| PART NO. | ID (IN.) | OD (IN.) | WORKING PSI AT 70°F | LBS. PER 100 FT. |
|----------|----------|----------|---------------------|------------------|
| 292 1023 | 1/4      | 1/2      | 140                 | 7.7              |
| 292 1044 | 3/8      | 5/8      | 140                 | 10.2             |
| 292 1065 | 1/2      | 7/8      | 105                 | 21.1             |
| 292 1086 | 3/4      | 1-1/8    | 90                  | 28.7             |
| 292 1107 | 1        | 1.405    | 60                  | 40.1             |

Sold by standard length (50 ft). Add length suffix to part number when ordering. Example: 50 ft. of 1/4" I.D. Silbrade Platinum is part number 292 1023-50. 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.



### Notes

The construction of SILBRADE PLATINUM involves a liner of silicone elastomer, an open polyester braid reinforcing layer, and a covering of silicone elastomer. The braid reinforcement allows for increased pressure usage over unreinforced silicone tubing. SILBRADE PLATINUM contains no plasticizers.

SILBRADE PLATINUM's surface properties resist encrustation and will not support bacteria growth. It is nonreactive to body tissues and fluids.

Care is recommended in the selection and application of fittings and clamps as sharp barbed fittings or unlined metal clamps could tear into the hose wall, possibly leading to hose failure.

<sup>^</sup>SILBRADE PLATINUM should not be used for steam transfer. Steam-for-sterilization is the only recommended exposure to steam. If exposed to repeated steam sterilization or long term high temperature or pressure, silicone will eventually become gummy. It should then be replaced.

SILBRADE PLATINUM is supplied in individual, heat-sealed polybags.

**SILBRADE PLATINUM 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             | 1320 |
| Elongation at Break, %            | 630  |
| Tear Resistance, Die B, ppi       | 320  |
| Modulus at 100%, psi              | 500  |
| Brittle Temperature, °F           | -100 |
| Maximum Operating Temperature, °F | 400  |

\*\*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.

### Recommended Fittings & Clamps

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

### Custom Services

- **Size**
- **Overbraid**
- **Color**
- **And More**

Call for more information  
800-506-3924



## Thermobarb® Plastic Plastic Barbed Fittings in Four Materials

- Precision molded in polypropylene, PVDF, nylon-6 and high density polyethylene
- Lightweight, compact, easy to install and disconnect
- High impact strength
- Excellent chemical resistance



## Clamps Three Styles for Use with Barbed Fittings

- Oetiker® breathable ear-type — compact and tamper proof
- Kwik Clamp™ nylon double bond made of durable nylon 6-6
- Worm gear — available lined for use with softer tubing like silicone



## Cutting Tools Two Sizes

- One for tubing up to 5/8" O.D.; another for sizes up to 1-1/2" O.D.
- Both cut soft or semi-rigid materials quickly and cleanly
- Lightweight, compact and durable
- Replaceable blade on larger size

## Request a Silicone catalog

Inside you'll find details on all of NewAge Industries' silicone tubing and reinforced hose. 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](http://www.newageindustries.com).



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