Silicone tubing has long been used in the medical field, as it meets that industry's requirements of cleanliness and non-toxicity. Another of silicone's major features — resistance to extreme temperature variations — has enabled its use in applications where a flexible tubing is needed to handle temperatures not possible with other plastics or rubbers.

Being a rubber-like thermoset material, silicone tubing and hose is extremely pliable and elastic, and it is not altered by the effects of weather. It generally exhibits inertness toward U.V., radiation, and ozone making it an excellent choice for electrically-associated applications.

NewAge® Industries offers a broad line of tubing and hose products made from this versatile material, including platinum cured products to ensure the least possible extractables. Our manufacturing clean room is designed to produce products particularly suited to medical and pharmaceutical applications, and our industrial grades offer exceptional performance at relatively lower costs.

**Note:** NewAge Industries does not produce or sell human-implantable silicone products.

---

**Applications**

- Aerospace
- Appliances
- Automotive
- Beverage & Dairy Service
- Blood & Biological Fluid Handling
- Cell Culturing
- Chemical Transfer
- Clean Rooms
- Computers
- Deionized Water Transfer
- Dialysis
- Duplicating Equipment
- Fermenter Lines
- Food Handling
- Gaskets, Seals, & 'O'-Rings
- Hot Fill & Vacuum Systems
- Insulation sleeving
- I.V. Administration
- Laboratory
- Liquid Resin Feeds
- Medical & Dental Equipment
- Peristaltic Pumps
- Personal Care Products
- Pharmaceutical Processing
- Protective Jacketing
- Sterile Bottle Filling
- Stirring Vessels
- Surgical Drains
- Thermal Protection
- Sterile Bottle Filling
- Vaccine Transfer
- More

*See Terms and Conditions Agreement for Limitations*
Silicone Tubing

- Meets 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
- Conforms to 3-A Sanitary Standards for Number 18-03 (Multiple Use Rubber and Rubber-Like Materials)
- Free of BPA, latex and phthalates; RoHS compliant

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**

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<th>PART NO.</th>
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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

www.newageindustries.com

Made in U.S.A.
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.

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.

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
---|---|---|---
---|---|---|---
---|---|---|---
---|---|---|---

Recommended Fittings & Clamps
Thermobarb® barbed fittings (see page 4)
Oetiker® ear type clamps
Kwik Clamp™ nylon double bond hose clamps
Worm gear clamps

Meet Some of NewAge Industries’ Owners
Through an Employee Stock Ownership Plan (ESOP), we’re owners of the company, and that makes your satisfaction an investment in our future.

John-Paul Deitz
Mfg. Engineering Manager/Owner
5 years

Sedén Ken
Silicone Molding/Owner
6 years

Joel DeVine
Quality Control Supervisor/Owner
14 years

ESOP Employee Owned
For your Benefit

Certified Animal Derived Ingredient

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.

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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.

www.newageindustries.com
Silicon® Med-X

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
- 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

Notes

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

SILICON 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.

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.

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

SILICON 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.

Recommended Fittings & Clamps

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

Custom Services

- Size
- Hardness
- Color
- And More

Call for more information
800-506-3924

FDA-APPROVED POLYPROPYLENE FITTINGS

- Precision molded of FDA-approved polypropylene copolymer
- Meets USP Class VI standards and compliant with FDA 21 CFR 177.1520
- Longer, more tapered lead barb slides easily into tubing and provides a secure attachment and reduced leakage
- Sterilizable by autoclave or gamma radiation
- Free of animal-derived ingredients
- No mold parting lines or flashing
- RoHS compliant

FDA-APPROVED POLYPROPYLENE FITTINGS

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<td>1/2</td>
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</table>

www.newageindustries.com
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
- Designed for elevated pressure applications
- Listed by the National Sanitation Foundation (NSF-51) for food equipment materials
- Free of BPA, latex and phthalates; RoHS compliant

**Recommended Fittings & Clamps**
- Thermobar® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

**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

**Cut coils are available; charges apply — call for details.**

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<th>PART NO.</th>
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<th>WALL (IN.)</th>
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 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.

**Custom Services**

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

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

**More NewAge Industries’ Owners**

**Did you know . . . ?**
Our Sales and Warehouse teams operate until 6 pm, eastern time, Monday through Thursday (Fridays till 5 p.m.).

ESOP Employees Owned for Your Benefit

Kristen Blum
Customer Service Rep./Owner
11 years

Sokea Vann
Plastic Manufacturing/Owner
13 years

Kley Sorm
Silicone Molding/Owner
3 years

ESOP Employees Owned for Your Benefit

www.newageindustries.com
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
- 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 liner 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 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. Platinum-cured, braid-reinforced silicone hose is available; see next page.

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

Physical Properties**

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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

More NewAge Industries’ Owners

Did you know . . . ?

Our number of Technical Sales Representatives is twice the industry average.

**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.
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
- 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

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.

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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A ±5 – Liner</td>
<td>70</td>
</tr>
<tr>
<td>Hardness, Shore A ±5 – Cover</td>
<td>60</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1320</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>630</td>
</tr>
<tr>
<td>Tear Resistance, Die B, ppi</td>
<td>320</td>
</tr>
<tr>
<td>Modulus at 100%, psi</td>
<td>500</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-100</td>
</tr>
<tr>
<td>Maximum Operating Temperature, °F</td>
<td>400</td>
</tr>
</tbody>
</table>

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More NewAge Industries Products

Tubing & Hose

- PVC
- Polyurethane
- Silicone
- Fluoropolymer
- Nylon
- Polyethylene
- Polypropylene
- TPR
- Viton™
- Latex
- Hytrel®

Fittings & Clamps for Silicone

Thermobarb® Plastic - Precision molded barbed fittings in nylon-6, high density polyethylene, PVDF, polypropylene, reinforced nylon, or reinforced polypropylene. Sizes for 1/8" to 1" I.D. tubing in 15 styles.

Thermobarb® Brass - Durable brass barbed fittings. Sizes for 1/8" to 1" I.D. tubing in 10 styles.

Cam Operated Couplings - Molded from glass-fiber reinforced nylon or glass-fiber reinforced polypropylene. Sizes from 1/2" to 4" in 8 styles.

Oetiker® Ear Type Clamps - Stainless steel or zinc-plated carbon steel clamps with a unique breathable design. 35 sizes from 5/32" to 1-9/16" in 3 styles.

Kwik Clamp™ - Nylon double-bond hose clamps. 31 sizes from 1/4" to 4-1/4" nominal O.D.

Worm Gear Clamps - Stainless steel worm screw clamps. 28 sizes from 3/8" to 6" in 6 styles.

Tubing & Hose Cutting Tools

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Size
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Coil
Over-braid
Heat Form

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More

High Purity Tubing & Hose
Sanitary tubing, hose, fittings, assemblies, and molded components from our AdvantaPure division meet the needs of the pharmaceutical, biotech, food and beverage, dairy, cosmetics and fragrances, and chemical industries, as well as other sanitary applications. AdvantaPure products are available through a network of select distributors. [www.advantapure.com](http://www.advantapure.com)