Medical Silicone Tubing & Hose

Peroxide or Platinum Cured
Medical Grade Braid Reinforced Silicone Hose

- Open mesh polyester braiding incorporated within the walls of silicone tubing
- Silicone elastomer meets USP Class VI requirements
- Translucent natural color for visual contact with the flow
- 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
- Manufactured under good manufacturing procedures in a controlled environment

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

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. A platinum-cured, braid-reinforced medical grade silicone hose is available. Minimum quantities apply; call for price and delivery.

Physical Properties**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>WORKING PSI AT 70°F</th>
<th>BURST PSI AT 70°F*</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>291 0257</td>
<td>3/16</td>
<td>.447</td>
<td>.130</td>
<td>216</td>
<td>648</td>
<td>7</td>
</tr>
<tr>
<td>291 0334</td>
<td>1/4</td>
<td>.520</td>
<td>.135</td>
<td>208</td>
<td>624</td>
<td>9</td>
</tr>
<tr>
<td>291 0411</td>
<td>5/16</td>
<td>.592</td>
<td>.140</td>
<td>183</td>
<td>549</td>
<td>11</td>
</tr>
<tr>
<td>291 0488</td>
<td>3/8</td>
<td>.655</td>
<td>.140</td>
<td>166</td>
<td>498</td>
<td>13</td>
</tr>
<tr>
<td>291 0565</td>
<td>1/2</td>
<td>.800</td>
<td>.150</td>
<td>141</td>
<td>423</td>
<td>17</td>
</tr>
<tr>
<td>291 0719</td>
<td>3/4</td>
<td>1.100</td>
<td>.175</td>
<td>91</td>
<td>273</td>
<td>28</td>
</tr>
<tr>
<td>291 0873</td>
<td>1</td>
<td>1.380</td>
<td>.190</td>
<td>75</td>
<td>225</td>
<td>36</td>
</tr>
</tbody>
</table>

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.

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
Medical Grade Silicone Tubing

- Silicone elastomer meets USP Class VI requirements
- Manufactured under good manufacturing procedures in a controlled environment
- Reusable — will withstand repeated sterilization
- Nonreactive to body tissues and fluids
- Translucent natural color for visual contact with the flow
- Odorless, tasteless, and inert
- All ingredients are non-toxic and FDA-sanctioned for use with food contact surfaces
- May be used on peristaltic pumps

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.

SILCON MEDICAL is not recommended for implantable or in-body uses.

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.

Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A ±5</td>
<td>60</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1200</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>425</td>
</tr>
<tr>
<td>Tear Resistance, Die B</td>
<td>120</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-100</td>
</tr>
<tr>
<td>Maximum Operating Temperature, °F</td>
<td>400</td>
</tr>
<tr>
<td>Comp. Set, 22 hrs. at 350°F, %</td>
<td>35</td>
</tr>
</tbody>
</table>

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

Call for more information
800-506-3924

*Limited stock availability; lead times and minimums may apply — call for details.

*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.
Platinum Cured Medical Grade Silicone Tubing

- Silicone elastomer meets 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†
- Nonreactive to body tissues and fluids
- Applications include pharmaceutical, biomedical, health and beauty, food, and beverage handling

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.

SILCON MED-X is not recommended for implantable or in-body uses. 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.

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

Physical Properties**

- Hardness, Shore A ±5 50
- Tensile Strength, psi 1100
- Elongation at Break, % 650
- Modulus at 100 % 120
- Tear Resistance, Die B ppi 200
- Temperature Range, °F -100 to 400
- Temperature Range, °C -73.3 to 204.4
- Compression Set, % 35

**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

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.

Custom Services

- Size
- Hardness
- Color
- And More

Call for more information 800-506-3924

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145 James Way
Southampton, PA 18966
www.newageindustries.com

800-50-NEWAGE
(800-506-3924)
215-526-2300
Fax: 800-837-1856
215-526-2190
info@newageindustries.com