

# Medical Silicone Tubing & Hose

Peroxide or Platinum Cured



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Fluid Transfer Specialists®

## 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
- 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 strict 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 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 or for continuous steam applications.

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\*\*

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.)	WORKING PSI AT 70°F	BURST PSI AT 70°F*	LBS. PER 100 FT.
291 0180	1/8	.365	.120	233	699	5
291 0257	3/16	.447	.130	216	648	7
291 0334	1/4	.520	.135	208	624	9
291 0411	5/16	.592	.140	183	549	11
291 0488	3/8	.655	.140	166	498	13
291 0565	1/2	.800	.150	141	423	17
291 0719	3/4	1.100	.175	91	273	28
291 0873	1	1.380	.190	75	225	36

Sold by standard coil length only (25 ft.). Add length suffix to part number when ordering. Example: 25 ft. of 1/8" I.D. hose is part number 291 0180-25.

\*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

### Additional Services



## Medical Grade Silicone Tubing

- Silicone elastomer meets USP Class VI and NSF-51 requirements
- Manufactured under strict 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



PART NO.	SUGGESTED PUMP SIZES††	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 1291*		1/8	5/16	3/32	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 1690*		3/8	1/2	1/16	50
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 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.  
 ††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

### Additional Services



### Notes

SILCON MEDICAL tubing is made under strict 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 or for continuous steam applications.

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.

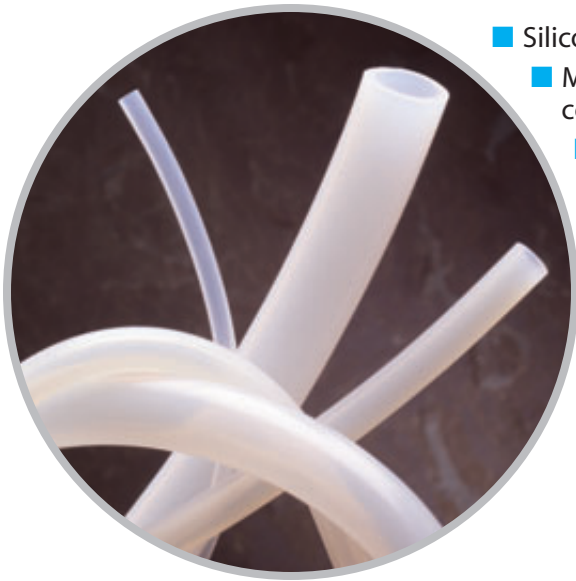
Peroxide-cured SILCON MEDICAL tubing is supplied in individual, non-sterile, heat-sealed polybags and should be sterilized prior to use.

### Physical Properties\*\*

Hardness, Shore A ±5	60
Tensile Strength, psi	1200
Elongation at Break, %	425
Tear Resistance, Die B	120
Brittle Temperature, °F	-100
Maximum Operating Temperature, °F	400
Comp. Set, 22 hrs. at 350°F, %	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.

## Platinum Cured Medical Grade Silicone Tubing



- Silicone elastomer meets USP Class VI requirements
- Manufactured under strict 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



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 0691	1/16	1/4	3/32
284 0971	1/8	3/16	.032
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

### Notes

SILCON MED-X tubing is made under strict 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 or for continuous steam applications.

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.

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

### Additional Services



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