

Medical Silicone Tubing & Hose

Peroxide or Platinum Cured



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Employee Owned
for Your Benefit



A Solar Powered,
Zero Landfill Company

NEWAGE
INDUSTRIES

Fluid Transfer Specialists®

Medical Grade Silicone Tubing



- Finished product meets USP Class VI requirements
- Raw materials meet FDA requirements per FDA 21 CFR 177.2600 for use with food contact surfaces
- Able to resist extreme temperature variation: -100°F to 400°F
- Free of BPA, latex and phthalates
- Odorless, tasteless, and inert
- Naturally translucent so fluid flow is visible
- May be used for peristaltic pumping
- REACH and RoHS compliant



Notes

SILCON MEDICAL tubing meets USP Class VI requirements. Its low surface energy helps to resist adhesion and does not support bacteria growth. The tubing is highly elastic without the need for plasticizers, making it a preferred option for life science use.

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.

Peroxide-cured SILCON MEDICAL tubing is supplied in individual, non-sterile, heat-sealed polybags.

SILCON MEDICAL should not be used in continuous steam applications.

Physical Properties**

Hardness, Shore A ±5	60
Tensile Strength, psi	3105
Elongation at Break, %	429
Tear Resistance, Die B, ppi	177
Modulus at 100%, psi	230

**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.

Custom Services

- **Cut** ■ **Color**
- **Size** ■ **And More**

Call for more information
800-506-3924

PART NO.	SUGGESTED SIZES FOR PUMPS††	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.

††Most common peristaltic pump sizes based on I.D. and wall requirements.

BOLD indicates the critical dimension for fittings application.



Additional Notes

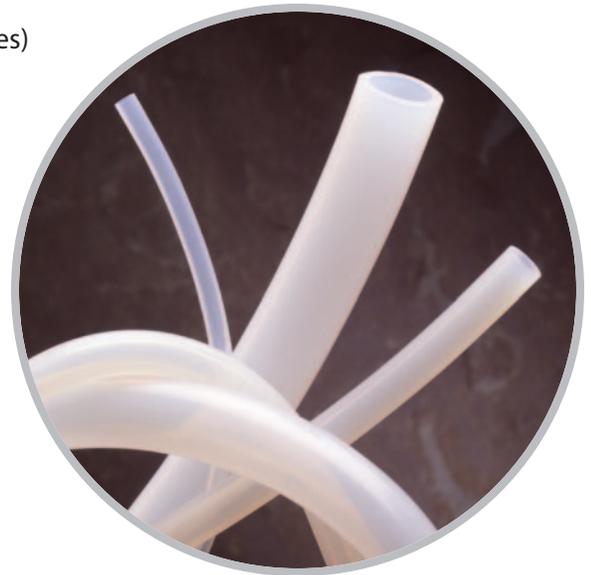
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Platinum Cured Medical Grade Silicone Tubing

- Platinum cured for the highest degree of purity (least extractables)
- Finished product meets USP Class VI requirements
- Free of BPA, latex and phthalates
- Listed by the National Sanitation Foundation (NSF-51) for food and beverage equipment materials
- Naturally translucent so fluid flow is visible
- REACH and RoHS compliant
- Applications include pharmaceutical, biomedical, health and beauty, food, and beverage handling



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.



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Notes

SILCON MED-X tubing meets USP Class VI requirements.

Its low surface energy helps to resist adhesion and does not support bacteria growth. The tubing is highly elastic without the need for plasticizers which make it a preferred option for life science use.

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.

SILCON MED-X is supplied in individual, heat-sealed polybags.

SILCON MED-X should not be used in 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

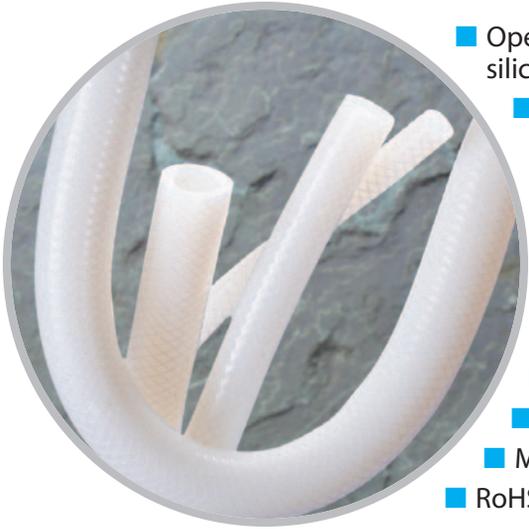
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Custom Services

- Cut
- Color
- Size
- And More

Call for more information
800-506-3924

Medical Grade Braid Reinforced Silicone Hose



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



Made in U.S.A.

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 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.

Custom Services

- **Cut** ■ **Color**
- **Size** ■ **And More**

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Platinum Cured Braid Reinforced Silicone Hose

- Platinum cured for the highest degree of purity
- Open mesh polyester braiding incorporated within walls of silicone offers increased pressure capabilities
- Finished product meets USP Class VI requirements
- 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 and beverage equipment materials
- Odorless, tasteless, and inert
- Able to resist extreme temperature variation: -100°F to 400°F
- Reusable — will withstand repeated sterilization[^]
- Free of BPA, latex and phthalates
- Kink resistant yet highly flexible
- Translucent natural color for visual contact with the flow
- Manufactured in a controlled environment
- Excellent weatherability properties — resists U.V., ozone, gases, moisture, and extreme temperatures
- 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.

Custom Services

- **Cut**
- **Color**
- **Size**
- **And More**

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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, or continuous steam operation. 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

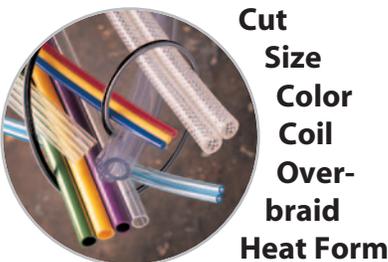
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Tube & Hose

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

Custom Services



Cut
Size
Color
Coil
Over-braid
Heat Form
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Assemblies

Hardness

More



Fittings & Clamps

Newloc® Acetal - NSF-listed, plastic push-to-connect fittings. Sizes for 1/8" to 1/2" O.D. tubing and 4mm to 12mm O.D. tubing in 24 styles.

Newloc® Brass - Brass push-to-connect fittings. Sizes for 1/8" to 1/2" O.D. tubing in 29 styles.

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.

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.

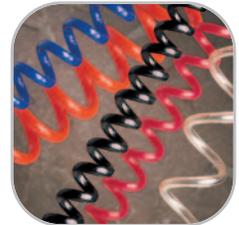
Worm Gear Clamps - Stainless steel worm screw clamps. 28 sizes from 3/8" to 6" in 6 styles.

Tubing & Hose Cutting Tools



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



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8/31/22

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