



Sani-Tech® STHT®-C Sani-Tech® STHT®-65 Pharmaceutical Silicone Tubing

Sani-Tech® STHT®-C and Sani-Tech® STHT®-65

Sani-Tech® STHT®-C and Sani-Tech® STHT®-65 are ultra-pure, biopharmaceutical-grade Tubing. This platinum-cured silicone tubing withstands repeated autoclaving and resist the adherence of blood products and other sanitary fluids. In 1/16" ID and greater, STHT-C and STHT-65 come with laser marked part numbers and lot codes to provide total product traceability.

Characteristics

The integrity of our manufacturing process is carefully controlled. In all our multiple production sites (US, France, and India) our tubing is produced and double bag packaged in an ISO 7 clean room. Inspections and lot traceability are readily accessible as batch numbers are assigned. All packages are identified by external labeling on both the bag and the high-quality crush-proof box.

Biocompatible

Sani-Tech® STHT®-C and Sani-Tech® STHT®-65 are manufactured from the finest grade of silicone materials tested to a variety of specifications including:

For additional compliance data visit www.biopharm.saint-gobain.com to download Validation Guide Summary or contact our customer service department.

USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5

European Pharmacopoeia 3.1.9

Features / Benefits

- Two hardnesses available, 50 and 65 shore A
- Multiple manufacturing sites: US, France, and India
- Ultra-pure, biopharmaceutical - grade silicone
- Permanently laser marked with part number and lot code for total product traceability
- Unsurpassed surface smoothness
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- BPOG extractable report
- Validation guide summary

Typical Applications

- Sterile fill and transfers
- Drug delivery
- Media processing
- Laboratory use
- Cell harvest
- Upstream and Downstream biopharma applications



Sani-Tech® STHT®-C and Sani-Tech® STHT®-65 Tubing Standard Sizes

Sani-Tech® STHT®-C	Sani-Tech® STHT®65	ID		OD		Wall		Burst Pressure • (psi)	
		in.	mm	in.	mm.	in.	mm	Sani-Tech® STHT®-C	Sani-Tech® STHT®65
STHT-C-012-0	STHT65-012-0	0.01	0.30	0.02	0.61	0.01	0.15	56.0	101.3
STHT-C-020-0	STHT65-020-0	0.02	0.51	0.04	0.91	0.01	0.20	47.2	86.8
STHT-C-025-0	STHT65-025-0	0.03	0.64	0.05	1.19	0.01	0.28	50.9	92.9
STHT-C-030-0	STHT65-030-0	0.03	0.76	0.07	1.68	0.02	0.46	63.3	113.2
STHT-C-030-2	STHT65-030-2	0.03	0.76	0.16	4.06	0.06	1.57	101.3	172.7
STHT-C-040-0	STHT65-040-0	0.04	1.02	0.09	2.18	0.02	0.58	61.6	110.4
STHT-C-058-0	STHT65-058-0	0.06	1.47	0.08	1.93	0.01	0.23	18.6	37.5
STHT-C-062-1	STHT65-062-1	0.06	1.59	0.13	3.18	0.03	0.79	56.0	101.3
STHT-C-062-2	STHT65-062-2	0.06	1.59	0.19	4.76	0.06	1.59	82.5	143.5
STHT-C-062-3	STHT65-062-3	0.06	1.59	0.25	6.35	0.09	2.38	94.1	161.6
STHT-C-062-4	STHT65-062-4	0.06	1.59	0.31	7.94	0.13	3.18	99.9	170.6
STHT-C-062-5	STHT65-062-5	0.06	1.59	0.44	11.11	0.19	4.76	105.3	178.9
STHT-C-062-6	STHT65-062-6	0.06	1.59	0.56	14.29	0.25	6.35	107.7	182.5
STHT-C-078-1	STHT65-078-1	0.08	1.98	0.14	3.57	0.03	0.79	47.2	86.8
STHT-C-078-2	STHT65-078-2	0.08	1.98	0.20	5.16	0.06	1.59	74.6	131.0
STHT-C-078-3	STHT65-078-3	0.08	1.98	0.27	6.75	0.09	2.38	88.1	152.4
STHT-C-078-4	STHT65-078-4	0.08	1.98	0.33	8.33	0.13	3.18	95.5	163.9
STHT-C-078-5	STHT65-078-5	0.08	1.98	0.45	11.51	0.19	4.76	102.7	174.9
STHT-C-078-6	STHT65-078-6	0.08	1.98	0.58	14.68	0.25	6.35	106.0	179.9
STHT-C-093-1	STHT65-093-1	0.09	2.38	0.16	3.97	0.03	0.79	40.4	75.5
STHT-C-093-2	STHT65-093-2	0.09	2.38	0.22	5.56	0.06	1.59	67.5	119.9
STHT-C-093-3	STHT65-093-3	0.09	2.38	0.28	7.14	0.09	2.38	82.5	143.5
STHT-C-093-4	STHT65-093-4	0.09	2.38	0.34	8.73	0.13	3.18	91.1	157.0
STHT-C-093-5	STHT65-093-5	0.09	2.38	0.47	11.91	0.19	4.76	99.9	170.6
STHT-C-093-6	STHT65-093-6	0.09	2.38	0.59	15.08	0.25	6.35	104.1	177.0
STHT-C-125-1	STHT65-125-1	0.13	3.18	0.19	4.76	0.03	0.79	30.8	59.1
STHT-C-125-2	STHT65-125-2	0.13	3.18	0.25	6.35	0.06	1.59	56.0	101.3
STHT-C-125-3	STHT65-125-3	0.13	3.18	0.31	7.94	0.09	2.38	72.1	127.2
STHT-C-125-4	STHT65-125-4	0.13	3.18	0.38	9.53	0.13	3.18	82.5	143.5
STHT-C-125-5	STHT65-125-5	0.13	3.18	0.50	12.70	0.19	4.76	94.1	161.6
STHT-C-125-6	STHT65-125-6	0.13	3.18	0.63	15.88	0.25	6.35	99.9	170.6
STHT-C-156-1	STHT65-156-1	0.16	3.97	0.22	5.56	0.03	0.79	24.5	48.1
STHT-C-156-2	STHT65-156-2	0.16	3.97	0.28	7.14	0.06	1.59	47.2	86.8
STHT-C-156-3	STHT65-156-3	0.16	3.97	0.34	8.73	0.09	2.38	63.3	113.2
STHT-C-156-4	STHT65-156-4	0.16	3.97	0.41	10.32	0.13	3.18	74.6	131.0
STHT-C-156-5	STHT65-156-5	0.16	3.97	0.53	13.49	0.19	4.76	88.1	152.4
STHT-C-156-6	STHT65-156-6	0.16	3.97	0.66	16.67	0.25	6.35	95.5	163.9
STHT-C-187-1	STHT65-187-1	0.19	4.76	0.25	6.35	0.03	0.79	20.1	40.2
STHT-C-187-2	STHT65-187-2	0.19	4.76	0.31	7.94	0.06	1.59	40.4	75.5
STHT-C-187-3	STHT65-187-3	0.19	4.76	0.38	9.53	0.09	2.38	56.0	101.3
STHT-C-187-4	STHT65-187-4	0.19	4.76	0.44	11.11	0.13	3.18	67.5	119.9
STHT-C-187-5	STHT65-187-5	0.19	4.76	0.56	14.29	0.19	4.76	82.5	143.5
STHT-C-187-6	STHT65-187-6	0.19	4.76	0.69	17.46	0.25	6.35	91.1	157.0
STHT-C-250-1	STHT65-250-1	0.25	6.35	0.31	7.94	0.03	0.79	14.5	30.0
STHT-C-250-2	STHT65-250-2	0.25	6.35	0.38	9.53	0.06	1.59	30.8	59.1
STHT-C-250-3	STHT65-250-3	0.25	6.35	0.44	11.11	0.09	2.38	44.7	82.7
STHT-C-250-4	STHT65-250-4	0.25	6.35	0.50	12.70	0.13	3.18	56.0	101.3
STHT-C-250-5	STHT65-250-5	0.25	6.35	0.63	15.88	0.19	4.76	72.1	127.2
STHT-C-250-6	STHT65-250-6	0.25	6.35	0.75	19.05	0.25	6.35	82.5	143.5
STHT-C-312-1	STHT65-312-1	0.31	7.94	0.38	9.53	0.03	0.79	11.1	23.6
STHT-C-312-2	STHT65-312-2	0.31	7.94	0.44	11.11	0.06	1.59	24.5	48.1
STHT-C-312-3	STHT65-312-3	0.31	7.94	0.50	12.70	0.09	2.38	36.7	69.2
STHT-C-312-4	STHT65-312-4	0.31	7.94	0.56	14.29	0.13	3.18	47.2	86.8
STHT-C-312-5	STHT65-312-5	0.31	7.94	0.69	17.46	0.19	4.76	63.3	113.2
STHT-C-312-6	STHT65-312-6	0.31	7.94	0.81	20.64	0.25	6.35	74.6	131.0
STHT-C-375-1	STHT65-375-1	0.38	9.53	0.44	11.11	0.03	0.79	8.9	19.3
STHT-C-375-2	STHT65-375-2	0.38	9.53	0.50	12.70	0.06	1.59	20.1	40.2
STHT-C-375-3	STHT65-375-3	0.38	9.53	0.56	14.29	0.09	2.38	30.8	59.1
STHT-C-375-4	STHT65-375-4	0.38	9.53	0.63	15.88	0.13	3.18	40.4	75.5
STHT-C-375-5	STHT65-375-5	0.38	9.53	0.75	19.05	0.19	4.76	56.0	101.3
STHT-C-375-6	STHT65-375-6	0.38	9.53	0.88	2.23	0.25	6.35	67.5	119.9

Sani-Tech® STHT-C and Sani-Tech® STHT®-65 Tubing Standard Sizes Continued

Sani-Tech® STHT®-C	Sani-Tech® STHT®65	ID		OD		Wall		Burst Pressure* (psi)	
		in.	mm	in.	mm.	in.	mm	Sani-Tech® STHT®-C	Sani-Tech® STHT®65
STHT-C-500-1	STHT65-500-1	0.50	12.70	0.56	14.29	0.03	0.79	6.2	14.0
STHT-C-500-2	STHT65-500-2	0.50	12.70	0.63	15.88	0.06	1.59	14.5	30.0
STHT-C-500-3	STHT65-500-3	0.50	12.70	0.69	17.46	0.09	2.38	22.9	45.2
STHT-C-500-4	STHT65-500-4	0.50	12.70	0.75	19.05	0.13	3.18	30.8	59.1
STHT-C-500-5	STHT65-500-5	0.50	12.70	0.88	22.23	0.19	4.76	44.7	82.7
STHT-C-500-6	STHT65-500-6	0.50	12.70	1.00	25.40	0.25	6.35	56.0	101.3
STHT-C-625-1	STHT65-625-1	0.63	15.88	0.69	17.46	0.03	0.79	4.7	10.9
STHT-C-625-2	STHT65-625-2	0.63	15.88	0.75	19.05	0.06	1.59	11.1	23.6
STHT-C-625-3	STHT65-625-3	0.63	15.88	0.81	20.64	0.09	2.38	17.9	36.2
STHT-C-625-4	STHT65-625-4	0.63	15.88	0.88	22.23	0.13	3.18	24.5	48.1
STHT-C-625-5	STHT65-625-5	0.63	15.88	1.00	25.40	0.19	4.76	36.7	69.2
STHT-C-625-6	STHT65-625-6	0.63	15.88	1.13	28.58	0.25	6.35	47.2	86.8
STHT-C-750-1	STHT65-750-1	0.75	19.05	0.81	20.64	0.03	0.79	3.7	8.8
STHT-C-750-2	STHT65-750-2	0.75	19.05	0.88	22.23	0.06	1.59	8.9	19.3
STHT-C-750-3	STHT65-750-3	0.75	19.05	0.94	23.81	0.09	2.38	14.5	30.0
STHT-C-750-4	STHT65-750-4	0.75	19.05	1.00	25.40	0.13	3.18	20.1	40.2
STHT-C-750-5	STHT65-750-5	0.75	19.05	1.13	28.58	0.19	4.76	30.8	59.1
STHT-C-750-6	STHT65-750-6	0.75	19.05	1.25	31.75	0.25	6.35	40.4	75.5
STHT-C-875-1	STHT65-875-1	0.88	22.23	0.94	23.81	0.03	0.79	3.1	7.4
STHT-C-875-2	STHT65-875-2	0.88	22.23	1.00	25.40	0.06	1.59	7.4	16.3
STHT-C-875-3	STHT65-875-3	0.88	22.23	1.06	26.99	0.09	2.38	12.1	25.4
STHT-C-875-4	STHT65-875-4	0.88	22.23	1.13	28.58	0.13	3.18	16.9	34.4
STHT-C-875-5	STHT65-875-5	0.88	22.23	1.25	31.75	0.19	4.76	26.3	51.3
STHT-C-875-6	STHT65-875-6	0.88	22.23	1.38	34.93	0.25	6.35	35.1	66.4
STHT-C-1000-1	STHT65-1000-1	1.00	25.40	1.06	26.99	0.03	0.79	2.6	6.3
STHT-C-1000-2	STHT65-1000-2	1.00	25.40	1.13	28.58	0.06	1.59	6.2	14.0
STHT-C-1000-3	STHT65-1000-3	1.00	25.40	1.19	30.16	0.09	2.38	10.3	22.0
STHT-C-1000-4	STHT65-1000-4	1.00	25.40	1.25	31.75	0.13	3.18	14.5	30.0
STHT-C-1000-5	STHT65-1000-5	1.00	25.40	1.38	34.93	0.19	4.76	22.9	45.2
STHT-C-1000-6	STHT65-1000-6	1.00	25.40	1.50	38.10	0.25	6.35	30.8	59.1

* Burst pressure measurement is using ASTM D1599.

Many factors can reduce or increase the tubing's ability to withstand pressure.

It is imperative that the user conducts tests simulating the conditions of application prior specifying the tubing for use.

Few part number are subject to a minimum order quantity.

Typical Physical Properties

Property	ASTM Method	STHT®-C Value or Rating (metric)	STHT®-65 Value or Rating (metric)
Durometer Hardness, Shore A	D2240	50	65
Tensile Strength, psi (MPa)	D412	1250 (8.62 MPa)	1376 (9.48 MPa)
Ultimate Elongation	D412	714	668
Tear Resistance, ppi (kN/m)	D624	250 (43.8 Kn/M)	326 (57.1 Kn/M)
Specific Gravity	D792	1.17	1.21
Tensile Modulus, psi (MPa)	D412	309 (2.13 MPa)	444 (3.06 MPa)

Unless otherwise noted, all tests were conducted at room temperature 23°C (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Sani-Tech® STHT-C and Sani-Tech® STHT®-65 Options

- Custom laylines
- Bulk spool packaging
- Custom sizes available

Sterilization Methods

- Autoclavable
- Gamma irradiation – up to 5.0 Mrad (50 Kilogray)
- Gas – Ethylene Oxide

STHT-X¹-XXX-XX²

Silicone Grade

STHT = Sani-Tech® STHT®

Hardness

C = 50 Shore
65 = 65 Shore

Inner Diameter (ID)

ID in inch
e.g. 012

Wall Size

1	1/32"	0.79 mm
2	1/16"	1.59 mm
3	3/32"	2.38 mm
4	1/8"	3.17 mm
5	3/16"	4.76 mm
6	1/4"	6.35 mm

Coil

F = 50ft coil
H = 100ft coil

25ft coil has
no designation

An example of PN is : STHT-C-030-2

¹Add M for metric sizes (example : CM or 65M)

²For custom sizes or custom products switch the letter

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WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Life Sciences warrants this product to be free of defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof.

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Sani-Tech® STHT®-R

Braid-Reinforced Silicone Hose

Sani-Tech® STHT®-R Braid-Reinforced Silicone Hose

Sani-Tech® STHT®-R platinum-cured braid-reinforced silicone hose is an ultra-flexible, high-purity hose that was developed for higher pressure applications. STHT-R is manufactured with Sani-Tech® 65 brand silicone resin.

Sani-Tech® STHT®-R platinum-cured silicone hose resists temperature extremes, radiation, moisture, compression sets, and chemical attack to fluids transported within it. Sani-Tech STHT-R hose withstands repeated autoclaving and resists the adherence of blood products and other sanitary fluids.

Characteristics

The manufacturing process is carefully controlled from receiving through production. In all our production sites our tubing is produced and single or double packaged, as requested, in an ISO 7 clean room. Inspection and lot traceability are readily accessible as batch numbers are assigned. All products are identifiable by labeling on both the shipping box and the bagging that holds the hose.

Saint-Gobain Life Sciences' manufacturing facility has the ability to create a variety of unique color-coding systems for your particular application needs. Sani-Tech® STHT®-R can be manufactured with a variety of custom braiding color selections.

Biocompatibility

Sani-Tech® STHT®-R is manufactured from the finest grade of silicone materials and is characterized, validated and tested to a variety of specifications including European Pharmacopoeia 3.1.9. Sani-Tech® STHT®-R meets the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5 For additional compliance data please contact our customer service department.

Platinum-Cured Braid-Reinforced Silicone Hose

Features/Benefits

- Meets the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5
- High pressure rating
- Ultra-flexible
- Improved bend radius over wire-reinforced hose
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Available in 25 and 50 foot lengths

Typical Applications

- Load cell
- Pump applications
- Cell cultures
- Vessel or tank transfer
- Laboratory use

Connections

- Sanitary, vulcanized, non-metallic fittings
- Radially crimped 316L SS or non-metallic fittings
- Adapter connections
- Overmold

Typical Physical Properties of Sani-Tech® STHT®-R

Property	ASTM Method	Value or Rating
Durometer Hardness Shore A, 15 Sec	D2240	65
Tensile Strength, psi	D412	1376
Elongation, %	D412	668
100% Modulus, psi	D412	444
Tear Resistance, lb-f/inch	D624	326
Specific Gravity	D792	1.21

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

General Sterilization Methods

- Autoclavable
- Irradiation (gamma and x-ray) - up to 50 kGy
- Gas – ethylene oxide

NOTE: STHT® hose will not deteriorate with repeated autoclaving. This method of sterilization is strongly recommended. STHT® silicones should not be considered for continuous steam applications.

WARNING: Do not use STHT® silicone hose in hot oil or acid applications.

Biocompatible and Regulatory Compliant

Sani-Tech® STHT®-R is manufactured from platinum-cured silicone materials and tested to a variety of specifications including:

ADCF/BSE/TSE statements

USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5 I

EP 3.1.9

For additional compliance data visit www.biopharm.saint-gobain.com to download the Technical Dossier or contact our customer service department.

Selection Guide of Sani-Tech® STHT®-R Hose

Part number	ID		OD		Wall		Burst Pressure		Recommended Working Pressure		Minimum Bend Radius		Weight*	
	in	mm	in	mm	in	mm	psi	bar	psi	bar	in	mm	lb/ft	kg/m
STHT-R-0125	0.125	3.2	0.355	9.0	0.115	2.9	777	53.6	194	13.4	0.29	7.4	0.045	0.067
STHT-R-0187	0.188	4.8	0.447	11.4	0.130	3.3	647	44.6	162	11.2	0.63	16.0	0.067	0.099
STHT-R-0250	0.250	6.4	0.500	12.7	0.125	3.2	597	41.2	149	10.3	0.38	9.7	0.076	0.113
STHT-R-0375	0.375	9.5	0.625	15.9	0.125	3.2	582	40.1	146	10.1	1.14	29.0	0.101	0.150
STHT-R-0500	0.500	12.7	0.875	22.2	0.188	4.7	769	53.0	193	13.3	1.05	26.7	0.205	0.305
STHT-R-0625	0.625	15.9	1.000	25.4	0.188	4.7	631	43.5	158	10.9	1.62	41.1	0.238	0.354
STHT-R-0750	0.750	19.1	1.125	28.6	0.188	4.7	371	25.6	93	6.4	2.61	66.3	0.287	0.427
STHT-R-0875	0.875	22.2	1.250	31.8	0.188	4.7	315	21.7	79	5.4	3.47	88.1	0.322	0.479
STHT-R-1000	1.000	25.4	1.375	34.9	0.188	4.7	246	17.0	62	4.3	4.42	112.3	0.362	0.538

Standard coil length is 25 feet. 50 foot coils available by adding "F" to the end of the part number.

Burst pressure test method is ASTM D1599; test media is water. Many factors can reduce or increase the tubing's ability to withstand pressure. It is imperative that the user conducts tests simulating the conditions of application prior to specifying the tubing for use.

Some part numbers may be subject to a minimum order quantity.

*Weights displayed here are reference values; actual values may differ due to dimensional tolerances.

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WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product to be free of defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof.

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