



International Filter Products

Revolutionary systems for your industry

Sani-Tech® STHT®-C Silicone Tubing

Sani-Tech® STHT®-C represents ultra-pure, biopharmaceutical grade Tubing. This platinum-cured silicone tubing withstands repeated autoclaving and resists the adherence of blood products and other sanitary fluids. Sani-Tech® STHT®-C is offered in multiple sizes to fit in any system. STHT®-C comes with laser-marked part numbers and lot codes to provide total product traceability.

The integrity of our manufacturing process is carefully controlled. In all our multiple production sites our tubing is manufactured, 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.

Sani-Tech® STHT®-C is manufactured from the finest grade of silicone materials tested to a variety of specifications.



Saint-Gobain
Life Sciences –
Bioprocess Solutions

Sani-Tech® STHT®-C

Pharmaceutical Silicone Tubing



SAINT-GOBAIN



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Application

- Sterile Fill and Transfers
- Laboratory Use
- Drug Delivery
- Cell Harvest
- Media Processing
- Upstream and Downstream biopharma applications

Technical Data Sheet

Features and 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 ranges from -80°F (-62°C) to 500°F (260°C)
- ❖ All formulas are Animal-Derived Component Free.
- ❖ All-inclusive Validation Guide and the Regulatory Information Overview (RIO) are available for customers upon request.

Chemical Resistance:

Chemical Type	Sani-Tech STHT-C Compatibility
Alcohol	Excellent
Acids, Dilute/Weak	Excellent
Bases, Dilute/Weak	Excellent
Salts	Excellent
High-purity Water	Excellent
Oil / Water Emulsion	Excellent

Note: A comprehensive chemical compatibility chart is available upon request.





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When some chemical types are not suitable, safe, or chemically compatible with Sani-Tech, Saint-Gobain offers alternative tubing series. Below, you will find chemicals that are incompatible with Sani-Tech and the suggested alternative Saint-Gobain tubing series:

Chemical Type	Alternative Saint-Gobain Tubing Series
Acids, Concentrated / Strong	C-Flex
Bases, Concentrated / Strong	C-Flex
Low Spallation Peristaltic Pump Tubing	PharmaPure
Biocompatible Peristaltic Pump Tubing	PharMed BPT
Ketones and Organic Solvent	PharmaFluor FEP

Physical Properties:

Property	ASTM Method	Formulations Value
Durometer Hardness, Shore A	D2240	50
Tensile Strength, psi (MPa)	D412	1250 (8.62 MPa)
Ultimate Elongation	D412	714
Tear Resistance, ppi (kN/m)	D624	250 (43.8 kN/m)
Specific Gravity	D792	1.17
Tensile Modulus, psi (MPa)	D412	309 (2.13 MPa)





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Sterilization Methods:

Autoclavable

Gamma Irradiation - up to 5.0 Mrad (50 Kilogray)

Gas – Ethylene Oxide

Regulatory Compliance (Biocompatibility, Physicochemical & Extractable Testing):

Summary of Results: Sani-Tech® STHT®-C (Validation Summary)		
Test	Standard	Result
Kinetic LAL Endotoxin	USP <85>	0.00538 EU/ml
LAL Gel Clot Endotoxin – Post Steam Sterilization	USP <87>	Passed
Biological Reactivity Tests, <i>In Vitro</i> : MEM Elution	USP <87>	Passed
Biological Reactivity Tests, <i>In Vitro</i> : MEM Elution – Post-Gamma Irradiation	USP <87>	Passed
Biological Reactivity Tests, <i>In Vitro</i> : Agar Diffusion	USP <87>	Passed
Biological Reactivity Tests, <i>In Vivo</i> : Pre-Autoclave/Gamma Irradiation	USP <88>	Passed
Elastomeric Closures for Injection, See Summary, Section 3i.	USP <381>	
Total Organic Carbon – Control, 0 Autoclave Cycles	USP <643>	24.5 mg/l
Total Organic Carbon – Control, 1 Autoclave Cycle	USP <643>	7.59 mg/l
Total Organic Carbon -- 5 Autoclave Cycles	USP <643>	4.19 mg/l
Total Organic Carbon - 10 Autoclave Cycles	USP <643>	3.77 mg/l
Physicochemical Tests for Plastics	USP <661>	Passed
Particulate Matter, See Summary, Section 3o.	USP <788>	
Total Extractables in Rubber Articles Intended for Repeated Use	21 CFR Part 117.2600	Passed
Semi-Quantification and Identification of Extractables: Post-Autoclave See Summary, Section 3q.		
Semi-Quantification and Identification of Extractables: Post-Autoclave See Summary, Section 3r.		





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Sani-Tech® STHT®-C Tubing Standard Size:

Part Number	ID			OD			Wall			Burst Pressure	
	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	psi**	BAR**
STHT-C-012-0*	0.012	1/80	0.3	0.024	1/50	0.61	0.006	1/160	0.2	56.0	3.86
STHT-C-020-0*	0.02	1/50	0.51	0.036	1/25	0.9	0.008	1/125	0.2	47.2	3.25
STHT-C-025-0*	0.025	1/40	0.64	0.047	1/2	1.2	0.011	1/100	0.3	50.9	3.51
STHT-C-030-0	0.03	1/40	0.76	0.066	1/16	1.7	0.08	2/25	0.5	63.3	4.36
STHT-C-030-2*	0.03	1/40	0.76	0.155	4/25	3.9	0.062	1/16	1.6	101.3	6.98
STHT-C-040-0*	0.04	1/25	1.00	0.086	2/25	2.2	0.023	1/50	0.6	61.6	4.25
STHT-C-058-0*	0.058	3/50	1.50	0.076	3/40	1.9	0.009	1/100	0.2	18.6	1.28

STHT-C-062-1	0.063	1/16	1.6	0.125	1/8	3.2	0.032	1/32	0.8	56.0	3.86
STHT-C-062-2	0.063	1/16	1.6	0.188	3/16	4.8	0.062	1/16	1.6	82.5	5.69
STHT-C-062-3	0.063	1/16	1.6	0.25	1/4	6.4	0.093	3/32	2.4	94.1	6.49
STHT-C-062-4	0.063	1/16	1.6	0.313	5/16	8	0.125	1/8	3.2	99.9	6.89
STHT-C-062-5	0.063	1/16	1.6	0.438	11/25	11.1	0.187	3/16	4.7	105.3	7.26
STHT-C-062-6*	0.063	1/16	1.6	0.563	14/25	14.3	0.25	1/4	6.4	107.7	7.43

STHT-C-078-1	0.078	2/25	2.0	0.141	7/50	3.6	0.032	1/32	0.8	47.2	3.25
STHT-C-078-2	0.078	2/25	2.0	0.203	1/5	5.2	0.062	1/16	1.6	74.6	5.14
STHT-C-078-3	0.078	2/25	2.0	0.266	13/50	6.8	0.093	3/32	2.4	88.1	6.07
STHT-C-078-4	0.078	2/25	2.0	0.328	8/25	8.3	0.125	1/8	3.2	95.5	6.58
STHT-C-078-5*	0.078	2/25	2.0	0.453	9/20	11.5	0.187	3/16	4.7	102.7	7.08
STHT-C-078-6*	0.078	2/25	2.0	0.578	14/25	14.7	0.25	1/4	6.4	106.0	7.31

STHT-C-093-1*	0.094	3/32	2.4	0.156	3/20	4	0.032	1/32	0.8	40.4	2.79
STHT-C-093-2*	0.094	3/32	2.4	0.219	11/50	5.6	0.062	1/16	1.6	67.5	4.65
STHT-C-093-3*	0.094	3/32	2.4	0.281	7/25	7.1	0.093	3/32	2.4	82.5	5.69
STHT-C-093-4*	0.094	3/32	2.4	0.344	17/50	8.7	0.125	1/8	3.2	91.1	6.28
STHT-C-093-5*	0.094	3/32	2.4	0.469	23/50	11.9	0.187	3/16	4.7	99.9	6.89
STHT-C-093-6*	0.094	3/32	2.4	0.594	3/5	15.1	0.25	1/4	6.4	104.1	7.18



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Part Number	ID			OD			Wall			Burst Pressure	
	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	psi**	BAR**
STHT-C-125-1*	0.125	1/8	3.2	0.188	7/40	4.8	0.032	1/32	0.8	30.8	2.12
STHT-C-125-2*	0.125	1/8	3.2	0.25	1/4	6.4	0.062	1/16	1.6	56.0	3.86
STHT-C-125-3*	0.125	1/8	3.2	0.313	5/16	8	0.093	3/32	2.4	72.1	4.97
STHT-C-125-4*	0.125	1/8	3.2	0.375	3/8	9.5	0.125	1/8	3.2	82.5	5.69
STHT-C-125-5*	0.125	1/8	3.2	0.5	1/2	12.7	0.187	3/16	4.7	94.1	6.49
STHT-C-125-6*	0.125	1/8	3.2	0.625	5/8	15.9	0.25	1/4	6.4	99.9	6.89

STHT-C-156-1	0.156	4/25	4.0	0.219	11/50	5.6	0.032	1/32	0.8	24.5	1.69
STHT-C-156-2	0.156	4/25	4.0	0.281	7/25	7.1	0.062	1/16	1.6	47.2	3.25
STHT-C-156-3	0.156	4/25	4.0	0.344	17/50	8.7	0.093	3/32	2.4	63.3	4.36
STHT-C-156-4	0.156	4/25	4.0	0.406	2/5	10.3	0.125	1/8	3.2	74.6	5.14
STHT-C-156-5*	0.156	4/25	4.0	0.531	13/25	13.5	0.187	3/16	4.7	88.1	6.07
STHT-C-156-6	0.156	4/25	4.0	0.656	13/20	16.7	0.25	1/4	6.4	95.5	6.58

STHT-C-187-1	0.187	3/16	4.7	0.25	1/4	6.4	0.032	1/32	0.8	20.1	1.54
STHT-C-187-2	0.187	3/16	4.7	0.313	5/16	8	0.062	1/16	1.6	40.4	2.71
STHT-C-187-3	0.187	3/16	4.7	0.375	3/8	9.5	0.093	3/32	2.4	56.0	3.52
STHT-C-187-4	0.187	3/16	4.7	0.438	11/25	11.1	0.125	1/8	3.2	67.5	4.11
STHT-C-187-5*	0.187	3/16	4.7	0.653	13/20	14.3	0.187	3/16	4.7	82.5	4.82
STHT-C-187-6*	0.187	3/16	4.7	0.688	7/10	17.5	0.25	1/4	6.4	91.1	5.23

STHT-C-250-1*	0.25	1/4	6.4	0.313	3/10	8	0.032	1/32	0.8	14.5	1.00
STHT-C-250-2	0.25	1/4	6.4	0.375	3/8	9.5	0.062	1/16	1.6	30.8	2.12
STHT-C-250-3*	0.25	1/4	6.4	0.438	11/25	11.1	0.093	3/32	2.4	44.7	3.08
STHT-C-250-4	0.25	1/4	6.35	0.5	1/2	12.7	0.13	1/8	3.18	56.0	3.86
STHT-C-250-5*	0.25	1/4	6.35	0.63	3/5	15.88	0.19	3/16	4.76	72.1	4.97
STHT-C-250-6*	0.25	1/4	6.35	0.75	3/4	19.05	0.25	1/4	6.35	82.5	5.69





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	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	psi**	BAR**
STHT-C-312-1	0.31	5/16	7.94	0.38	3/8	9.53	0.03	1/32	0.79	11.1	0.77
STHT-C-312-2	0.31	5/16	7.94	0.44	11/25	11.11	0.06	1/16	1.59	24.5	1.69
STHT-C-312-3	0.31	5/16	7.94	0.5	1/2	12.7	0.09	3/32	2.38	36.7	2.53
STHT-C-312-4	0.31	5/16	7.94	0.56	11/20	14.29	0.13	1/8	3.18	47.2	3.25
STHT-C-312-5	0.31	5/16	7.94	0.69	7/10	17.46	0.19	3/16	4.76	63.3	4.36
STHT-C-312-6*	0.31	5/16	7.94	0.81	4/5	20.64	0.25	1/4	6.35	74.6	5.14

STHT-C-375-1*	0.38	3/8	9.53	0.44	11/25	11.11	0.03	1/32	0.79	8.9	0.61
STHT-C-375-2	0.38	3/8	9.53	0.5	1/2	12.7	0.06	1/16	1.59	20.1	1.39
STHT-C-375-3	0.38	3/8	9.53	0.56	11/20	14.29	0.09	3/32	2.38	30.8	2.12
STHT-C-375-4	0.38	3/8	9.53	0.63	3/5	15.88	0.13	1/8	3.18	40.4	2.79
STHT-C-375-5	0.38	3/8	9.53	0.75	3/4	19.05	0.19	3/16	4.76	56.0	3.86
STHT-C-375-6*	0.38	3/8	9.53	0.88	7/8	22.23	0.25	1/4	6.35	67.5	4.65

STHT-C-500-1*	0.50	1/2	12.7	0.56	11/20	14.29	0.03	1/32	0.79	6.2	0.43
STHT-C-500-2	0.50	1/2	12.7	0.63	3/5	15.88	0.06	1/16	1.59	14.5	1.00
STHT-C-500-3	0.50	1/2	12.7	0.69	7/10	17.46	0.09	3/32	2.38	22.9	1.58
STHT-C-500-4	0.50	1/2	12.7	0.75	3/4	19.05	0.13	1/8	3.18	30.8	2.12
STHT-C-500-5	0.50	1/2	12.7	0.88	7/8	22.23	0.19	3/16	4.76	44.7	3.08
STHT-C-500-6*	0.50	1/2	12.7	1.0	1.00	25.4	0.25	1/4	6.35	56.0	3.86

STHT-C-625-1*	0.63	5/8	15.88	0.69	7/10	17.46	0.03	1/32	0.79	4.7	0.32
STHT-C-625-2	0.63	5/8	15.88	0.75	3/4	19.05	0.06	1/16	1.59	11.1	0.77
STHT-C-625-3*	0.63	5/8	15.88	0.81	4/5	20.64	0.09	3/32	2.38	17.9	1.23
STHT-C-625-4	0.63	5/8	15.88	0.88	7/8	22.23	0.13	1/8	3.18	24.5	1.69
STHT-C-625-5	0.63	5/8	15.88	1.0	1	25.4	0.19	3/16	4.76	36.7	2.53
STHT-C-625-6*	0.63	5/8	15.88	1.13	1 1/10	28.58	0.25	1/4	6.35	47.2	3.25



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Part Number	ID			OD			Wall			Burst Pressure	
	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	in.	in. (Fraction)	mm.	psi**	BAR**
STHT-C-750-1*	0.75	3/4	19.05	0.81	4/5	20.64	0.03	1/32	0.79	3.7	0.26
STHT-C-750-2*	0.75	3/4	19.05	0.9	7/8	22.23	0.06	1/16	1.59	8.9	0.61
STHT-C-750-3*	0.75	3/4	19.05	0.94	9/10	23.81	0.09	3/32	2.38	14.5	1.00
STHT-C-750-4	0.75	3/4	19.05	1	1	25.4	0.13	1/8	3.18	20.1	1.39
STHT-C-750-5	0.75	3/4	19.05	1.13	1 1/10	28.58	0.19	3/16	4.76	30.8	2.12
STHT-C-750-6	0.75	3/4	19.05	1.25	1 1/8	31.75	0.25	1/4	6.35	40.4	2.79

STHT-C-875-1*	0.88	8/9	22.23	0.94	9/10	23.81	0.03	1/32	0.79	3.1	0.21
STHT-C-875-2	0.88	8/9	22.23	1.0	1	25.4	0.06	1/16	1.59	7.4	0.51
STHT-C-875-3*	0.88	8/9	22.23	1.06	1 3/50	26.99	0.09	3/32	2.38	12.1	0.83
STHT-C-875-4	0.88	8/9	22.23	1.13	1 1/10	28.58	0.13	1/8	3.18	16.9	1.17
STHT-C-875-5	0.88	8/9	22.23	1.25	1 1/4	31.75	0.19	3/16	4.76	26.3	1.81
STHT-C-875-6	0.88	8/9	22.23	1.38	1 2/5	34.93	0.25	1/4	6.35	35.1	2.42

STHT-C-1000-1*	1.00	1	25.4	1.06	1 3/50	26.99	0.03	1/32	0.79	2.6	0.18
STHT-C-1000-2*	1.00	1	25.4	1.13	1 1/10	28.58	0.06	1/16	1.59	6.2	0.43
STHT-C-1000-3*	1.00	1	25.4	1.19	1 1/5	30.16	0.09	3/32	2.38	10.3	0.71
STHT-C-1000-4	1.00	1	25.4	1.25	1 1/4	31.75	0.13	1/8	3.18	14.5	1.00
STHT-C-1000-5	1.00	1	25.4	1.38	1 2/5	34.93	0.19	3/16	4.76	22.9	1.58
STHT-C-1000-6	1.00	1	25.4	1.5	1 1/2	38.1	0.25	1/4	6.35	30.8	2.12

*Please consult International Filter Products Inc. for availability.

**Burst pressure measurement is using ASTM D1599.

Sani-Tech® STHT®-C Silicone Tubing – Packaging Option

- Custom Lay lines
- Bulk Spool Packaging
- Custom sizes available



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Ordering Guide



[1]	[2]	[3]	[4]
Hardness	Inner Diameter [ID] Code	Wall Thickness Code	Coil
<ul style="list-style-type: none"> • C: 50 Shore • 65: 65 Shore 	<ul style="list-style-type: none"> • 031: 0.031 inch or 1/32 inch • 062: 0.0625 inch or 1/16 inch • 125: 0.125 inch or 1/8 inch • 156: 0.156 inch or 4/25 inch • 187: 0.1875 inch or 3/16 inch • 250: 0.250 inch or 1/4 inch • 312: 0.3125 inch or 5/16 inch • 375: 0.375 inch or 3/8 inch • 500: 0.500 inch or 1/2 inch • 625: 0.625 inch or 5/8 inch • 750: 0.750 inch or 3/4 inch • 875: 0.8750 inch or 8/9 inch • 1000: 1.00 inch or 1 inch 	<ul style="list-style-type: none"> • 1: 0.031 inch or 1/32 inch • 2: 0.063 inch or 1/16 inch • 3: 0.094 inch or 3/32 inch • 4: 0.125 inch or 1/8 inch • 6: 0.188 inch or 3/16 inch • 8: 0.250 inch or 1/4 inch 	<ul style="list-style-type: none"> • Blank: 25ft Coil • F: 50ft Coil • H: 100ft Coil

Example:

STHT-C-250-2

Sani-Tech® STHT-C Platinum Cured Silicone Tubing, ID 0.250 in X OD 0.375 in X Wall thickness 0.062 in, Burst Pressure 29.3 PSI, 25 Ft per Coil

Part Number

Description



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