



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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