

Sani-Tech® STHT®-C Sanitary Silicone Tubing



Permanently laser marked with part number and lot code for total product traceability.

Sani-Tech® STHT®-C

Sani-Tech® STHT®-C is an ultra-pure, biopharmaceutical-grade tubing that has a useful life unmatched by any other known process tubing. Sani-Tech® STHT®-C platinum-cured silicone tubing resists temperature extremes, ozone, corona, radiation, moisture, compression sets, weathering and chemical attack and imparts no taste or odors to fluids transported within it. Sani-Tech® STHT®-C silicone tubing withstands repeated autoclaving and resists the adherence of blood products and other sanitary fluids. Sani-Tech® STHT®-C, in 1/16" ID and greater, comes with laser marked part numbers and lot codes to provide total product traceability.

Characteristics

The manufacturing process is carefully controlled from receiving through production. Inspection 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.

Biocompatibility

Sani-Tech® STHT®-C is manufactured from the finest grade of silicone materials and is fully characterized, validated and tested to a variety of specifications including USP Class VI criteria, ISO 10993, European Pharmacopoeia 3.1.9, and Japanese Pharmacopoeia – Section 51. For additional compliance data please contact our customer service department. Sani-Tech® STHT®-C has a Master File with the U.S. Food and Drug Administration.

BIOPHARMACEUTICAL PRODUCTS

Clear platinum-cured non-reinforced silicone tubing

Features/Benefits

- Ultra-pure, biopharmaceutical-grade silicone
- Permanently laser marked with part number and lot code for total product traceability
- Unsurpassed surface smoothness
- Ultra-flexible
- Autoclavable and sterilizable
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Imparts no taste or odors
- Available in bulk or assemblies
- Available in 25-, 50- and 100-foot coils

Typical Applications

- Sterile fill and transfers
- Drug delivery
- Media processing
- Sanitary peristaltic pump tubing
- Laboratory use
- Cell harvest
- Media processing
- Liquid chromatography

Sani-Tech® STHT®-C Tubing Available Sizes

| Part Number | ID (inches) | OD (inches) | Wall (inches) | Pressure Rating | | Part Number | ID (inches) | OD (inches) | Wall (inches) | Pressure Rating | |
|---------------|-------------|-------------|---------------|-----------------|---------------|----------------|-------------|-------------|---------------|-----------------|---------------|
| | | | | Burst (psi) | Working (psi) | | | | | Burst (psi) | Working (psi) |
| STHT-C-012-0 | 0.012 | 0.024 | 0.006 | 48 | 10 | STHT-C-250-3 | 0.25 | 0.438 | 0.093 | 41 | 8 |
| STHT-C-020-0 | 0.02 | 0.036 | 0.008 | 41 | 8 | STHT-C-250-4 | 0.25 | 0.5 | 0.125 | 52 | 10 |
| STHT-C-025-0 | 0.025 | 0.047 | 0.011 | 44 | 9 | STHT-C-250-5* | 0.25 | 0.625 | 0.187 | 74 | 15 |
| STHT-C-030-0 | 0.03 | 0.066 | 0.018 | 56 | 11 | STHT-C-250-6* | 0.25 | 0.75 | 0.25 | 105 | 21 |
| STHT-C-030-2 | 0.03 | 0.155 | 0.062 | 161 | 32 | STHT-C-312-1 | 0.312 | 0.375 | 0.032 | 17 | 3 |
| STHT-C-040-0 | 0.04 | 0.086 | 0.023 | 54 | 11 | STHT-C-312-2 | 0.312 | 0.438 | 0.062 | 22 | 4 |
| STHT-C-058-0 | 0.058 | 0.076 | 0.009 | 24 | 5 | STHT-C-312-3 | 0.312 | 0.5 | 0.093 | 41 | 8 |
| STHT-C-062-1 | 0.062 | 0.125 | 0.032 | 51 | 10 | STHT-C-312-4 | 0.312 | 0.563 | 0.125 | 48 | 10 |
| STHT-C-062-2 | 0.062 | 0.188 | 0.062 | 85 | 17 | STHT-C-312-5 | 0.312 | 0.688 | 0.187 | 69 | 14 |
| STHT-C-062-3 | 0.062 | 0.25 | 0.093 | 118 | 24 | STHT-C-312-6* | 0.312 | 0.813 | 0.25 | 90 | 18 |
| STHT-C-062-4 | 0.062 | 0.313 | 0.125 | 164 | 33 | STHT-C-375-1* | 0.375 | 0.438 | 0.032 | 14 | 3 |
| STHT-C-062-5 | 0.062 | 0.438 | 0.187 | 239 | 48 | STHT-C-375-2 | 0.375 | 0.5 | 0.062 | 17 | 3 |
| STHT-C-062-6* | 0.062 | 0.563 | 0.25 | 316 | 63 | STHT-C-375-3 | 0.375 | 0.563 | 0.093 | 31 | 6 |
| STHT-C-078-1 | 0.078 | 0.141 | 0.032 | 43 | 9 | STHT-C-375-4 | 0.375 | 0.625 | 0.125 | 42 | 8 |
| STHT-C-078-2 | 0.078 | 0.203 | 0.062 | 73 | 15 | STHT-C-375-5 | 0.375 | 0.75 | 0.187 | 56 | 11 |
| STHT-C-078-3 | 0.078 | 0.266 | 0.093 | 104 | 21 | STHT-C-375-6 | 0.375 | 0.875 | 0.25 | 80 | 16 |
| STHT-C-078-4* | 0.078 | 0.328 | 0.125 | 135 | 27 | STHT-C-500-1* | 0.5 | 0.563 | 0.032 | 10 | 2 |
| STHT-C-078-5 | 0.078 | 0.453 | 0.187 | 197 | 39 | STHT-C-500-2 | 0.5 | 0.625 | 0.062 | 18 | 4 |
| STHT-C-078-6 | 0.078 | 0.578 | 0.25 | 259 | 52 | STHT-C-500-3 | 0.5 | 0.688 | 0.093 | 22 | 4 |
| STHT-C-093-1 | 0.093 | 0.156 | 0.032 | 39 | 8 | STHT-C-500-4 | 0.5 | 0.75 | 0.125 | 33 | 7 |
| STHT-C-093-2 | 0.093 | 0.219 | 0.062 | 66 | 13 | STHT-C-500-5 | 0.5 | 0.875 | 0.187 | 47 | 9 |
| STHT-C-093-3 | 0.093 | 0.281 | 0.093 | 90 | 18 | STHT-C-500-6* | 0.5 | 1 | 0.25 | 66 | 13 |
| STHT-C-093-4 | 0.093 | 0.344 | 0.125 | 104 | 21 | STHT-C-625-1* | 0.625 | 0.688 | 0.032 | 6 | 1 |
| STHT-C-093-5* | 0.093 | 0.469 | 0.187 | 170 | 34 | STHT-C-625-2 | 0.625 | 0.75 | 0.062 | 13 | 3 |
| STHT-C-093-6* | 0.093 | 0.594 | 0.25 | 224 | 45 | STHT-C-625-3* | 0.625 | 0.813 | 0.093 | 20 | 4 |
| STHT-C-125-1 | 0.125 | 0.188 | 0.032 | 32 | 6 | STHT-C-625-4 | 0.625 | 0.875 | 0.125 | 27 | 5 |
| STHT-C-125-2 | 0.125 | 0.25 | 0.062 | 52 | 10 | STHT-C-625-5 | 0.625 | 1 | 0.187 | 42 | 8 |
| STHT-C-125-3 | 0.125 | 0.313 | 0.093 | 70 | 14 | STHT-C-625-6* | 0.625 | 1.25 | 0.25 | 56 | 11 |
| STHT-C-125-4 | 0.125 | 0.375 | 0.125 | 93 | 19 | STHT-C-750-1* | 0.75 | 0.813 | 0.032 | 3 | 1 |
| STHT-C-125-5 | 0.125 | 0.5 | 0.187 | 114 | 23 | STHT-C-750-2* | 0.75 | 0.875 | 0.068 | 12 | 2 |
| STHT-C-125-6 | 0.125 | 0.625 | 0.25 | 176 | 35 | STHT-C-750-3* | 0.75 | 0.938 | 0.093 | 16 | 3 |
| STHT-C-156-1 | 0.156 | 0.219 | 0.032 | 28 | 6 | STHT-C-750-4 | 0.75 | 1 | 0.125 | 23 | 5 |
| STHT-C-156-2 | 0.156 | 0.281 | 0.062 | 44 | 9 | STHT-C-750-5 | 0.75 | 1.125 | 0.187 | 31 | 6 |
| STHT-C-156-3 | 0.156 | 0.344 | 0.093 | 55 | 11 | STHT-C-750-6 | 0.75 | 1.25 | 0.25 | 48 | 10 |
| STHT-C-156-4 | 0.156 | 0.406 | 0.125 | 77 | 15 | STHT-C-875-1* | 0.875 | 0.938 | 0.032 | 3 | 1 |
| STHT-C-156-5* | 0.156 | 0.531 | 0.187 | 114 | 23 | STHT-C-875-2 | 0.875 | 1 | 0.062 | 5 | 1 |
| STHT-C-156-6 | 0.156 | 0.656 | 0.25 | 148 | 30 | STHT-C-875-3* | 0.875 | 1.0625 | 0.093 | 11 | 2 |
| STHT-C-187-1 | 0.187 | 0.25 | 0.032 | 25 | 5 | STHT-C-875-4 | 0.875 | 1.125 | 0.125 | 18 | 4 |
| STHT-C-187-2 | 0.187 | 0.313 | 0.062 | 39 | 8 | STHT-C-875-5 | 0.875 | 1.25 | 0.187 | 30 | 6 |
| STHT-C-187-3 | 0.187 | 0.375 | 0.093 | 54 | 11 | STHT-C-875-6 | 0.875 | 1.375 | 0.25 | 42 | 8 |
| STHT-C-187-4 | 0.187 | 0.438 | 0.125 | 65 | 13 | STHT-C-1000-1* | 1 | 1.0625 | 0.032 | 3 | 1 |
| STHT-C-187-5 | 0.187 | 0.563 | 0.187 | 90 | 18 | STHT-C-1000-2* | 1 | 1.125 | 0.062 | 4 | 1 |
| STHT-C-187-6 | 0.187 | 0.688 | 0.25 | 130 | 26 | STHT-C-1000-3* | 1 | 1.187 | 0.093 | 8 | 2 |
| STHT-C-250-1 | 0.25 | 0.313 | 0.032 | 11 | 2 | STHT-C-1000-4 | 1 | 1.25 | 0.125 | 18 | 4 |
| STHT-C-250-2 | 0.25 | 0.375 | 0.062 | 28 | 6 | STHT-C-1000-5 | 1 | 1.375 | 0.187 | 25 | 5 |
| STHT-C-250-3 | 0.25 | 0.438 | 0.093 | 41 | 8 | STHT-C-1000-6 | 1 | 1.5 | 0.25 | 35 | 7 |

Burst pressures are calculated at a 5:1 ratio relative to working pressure using ASTM D1599.

* Please consult factory for availability

Typical Physical Properties

| Property | ASTM Method | Value or Rating (metric) |
|-------------------------------------|-------------|--------------------------|
| Durometer Hardness, Shore A, 15 Sec | D2240 | 50 |
| Tensile Strength, psi (MPa) | D412 | 1250 (8.62 MPa) |
| Ultimate Elongation, 100% | 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) |

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.

Sani-Tech® STHT®-C Options

- Custom laylines
- Bulk spool packaging
- Custom sizes available
- Additional durometers available

Sterilization Methods

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

Sizing Formula

| | | | |
|--------|------|--------|------|
| WALL 1 | 1/32 | WALL 4 | 1/8 |
| WALL 2 | 1/16 | WALL 5 | 3/16 |
| WALL 3 | 3/32 | WALL 6 | 1/4 |



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Important: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics Corporation tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from 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. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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BIOPHARMACEUTICAL PRODUCTS
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