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, ozone, corona, radiation, moisture, compression sets, weathering and chemical attack and imparts no taste or odors 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. Inspection and lot traceability information is 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.

Saint-Gobain Performance Plastics’ 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 colored striping and braiding color selections.

Biocompatibility
Sani-Tech® STHT®-R 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 and European Pharmacopoeia 3.1.9. For additional compliance data please contact our customer service department. Sani-Tech® STHT®-R platinum-cured braid-reinforced silicone hose has a Master File with the U.S. Food and Drug Administration.

Platinum-Cured Braid-Reinforced Silicone Hose

Features/Benefits
• Biopharmaceutical grade
• High pressure rating
• Ultra-flexible
• Improved bend radius over wire-reinforced hose
• Autoclavable and sterilizable
• Temperature range from -80°F (-62°C) to 500°F (260°C)
• Imparts no taste or odors
• Color striping available
• Available in 50-foot lengths
• Lot number traceability

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
The bio-compatibility of STHT® platinum-cured silicone hose, manufactured with Sani-Tech® silicone, has been tested and complies with the parameters set forth in the following test protocols:

- USP XXIV (88) biological reactivity, in vivo
  - Intracutaneous test
  - Systemic injection test
  - Implantation test
- USP XXIV (87) biological reactivity, in vitro
  - L929 MEM elution
  - AGAR diffusion
- ISO 10993
- FDA CFR 177.2600
- Meets or exceeds USDA standard and 3A approval
- European Pharmacopoeia 3.1.9

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

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

### Sterilization Methods
- Autoclavable
- Radiation – up to 5.0 Mrad (50 Kilogram)
- Gas – Ethylene Oxide

IMPORTANT: It is the user’s responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics 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.

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.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer’s risk.


### Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Method</th>
<th>Value or Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durometer Hardness Shore A, 15 Sec</td>
<td>D2240</td>
<td>65</td>
</tr>
<tr>
<td>Tensile Strength psi (MPa)</td>
<td>D412</td>
<td>1376</td>
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<tr>
<td>Ultimate Elongation, 100%</td>
<td>D412</td>
<td>668</td>
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<tr>
<td>Tear Resistance lb-f/inch (kN/m)</td>
<td>D624</td>
<td>326</td>
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<tr>
<td>Specific Gravity</td>
<td>D792</td>
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<tr>
<td>Tensile Modulus</td>
<td>D412</td>
<td>444</td>
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</tbody>
</table>

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.

**BIOPHARMACEUTICAL PRODUCTS**  
*Come through clean.*

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**SAINT-GOBAIN PERFORMANCE PLASTICS**

**ACCUFLOW SYSTEMS**

**Sani-Tech® Hose is not intended for use as an implant material**