

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



## BIOPHARMACEUTICAL PRODUCTS

### 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

#### 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.

## Sani-Tech® STHT®R Hose Inventory Sizes

Part Number	ID Inches (mm)	OD Inches (mm)	Wall Inches	Recommended Working Pressure PSI at 68°F	Minimum Burst Pressure, PSI at 68°F	Minimum Bend Radius Inches	Weight Per Foot, Lb.
STHT-R-0062	.062 (1.57)	.272 (6.91)	.105	200	775	C/F	C/F
STHT-R-0125	.125 (3.18)	.355 (9.02)	.115	190	775	C/F	C/F
STHT-R-0187	.187 (4.75)	.447 (11.35)	.130	185	750	C/F	C/F
STHT-R-0250	.250 (6.35)	.500 (12.70)	.125	180	725	1.00	.080
STHT-R-0375	.375 (9.53)	.625 (15.88)	.125	180	725	2.00	.117
STHT-R-0500	.500 (12.70)	.875 (22.23)	.187	175	700	3.00	.159
STHT-R-0625	.625 (15.88)	1.000 (25.40)	.187	125	500	4.00	.221
STHT-R-0750	.750 (19.05)	1.125 (28.58)	.187	105	425	4.00	.264
STHT-R-0875	.875 (22.23)	1.250 (31.75)	.187	100	400	5.00	.310
STHT-R-1000	1.000 (25.40)	1.375 (34.93)	.187	75	300	6.00	.347

### Characterization

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

### Sterilization Methods

- Autoclavable
- Radiation – up to 5.0 Mrad (50 Kilogray)
- 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 consistent steam applications.

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

### Typical Physical Properties

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

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® and STHT® are registered trademarks.

**SANI-TECH® HOSE IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL**

### BIOPHARMACEUTICAL PRODUCTS

*Come through clean.™*

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**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.

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