



# Sani-Tech® STHT®-R

## Braid-Reinforced Silicone Hose

### 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, radiation, moisture, compression sets, and chemical attack 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. In all our production sites our tubing is produced and double bag packaged in an ISO 7 clean room. 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.

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 braiding color selections.

### Biocompatibility

Sani-Tech® STHT®-R is manufactured from the finest grade of silicone materials and is 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.

### Platinum-Cured Braid-Reinforced Silicone Hose

#### Features/Benefits

- Meets USP Class VI and ISO 10993
- High pressure rating
- Ultra-flexible
- Improved bend radius over wire-reinforced hose
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Available in 25 and 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
- Overmold

## Typical Physical Properties of Sani-Tech® STHT®-R

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
Tensile Modulus	D412	444
Tear Resistance, lb-f/inch (kN/m)	D624	326
Specific Gravity	D792	1.21

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.

## 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 continuous steam applications.

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

## 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
- European Pharmacopoeia 3.1.9

## Selection Guide of Sani-Tech® STHT®-R Hose

Part number	I.D. inches (mm)	O.D. inches (mm)	Wall thickness inches (mm)	Recommended working pressure PSI (bar) at 68°F	Minimum burst pressure PSI (bar) at 68°F	Minimum bend radius inches (mm)	Weight per foot lb (kg/m)
STHT-R-0062	.062 (1.6)	.272 (6.9)	.105 (2.7)	200 (13.8)	775 (53.4)	C/F	C/F
STHT-R-0125	.125 (3.2)	.355 (9.0)	.115 (2.9)	190 (13.1)	775 (53.4)	C/F	C/F
STHT-R-0187	.187 (4.8)	.447 (11.4)	.130 (3.3)	185 (12.8)	750 (51.7)	C/F	C/F
STHT-R-0250	.250 (6.4)	.500 (12.7)	.125 (3.2)	180 (12.4)	725 (50)	1.00 (25)	.080 (.36)
STHT-R-0375	.375 (9.5)	.625 (15.9)	.125 (3.2)	180 (12.4)	725 (50)	2.00 (50)	.117 (.05)
STHT-R-0500	.500 (12.7)	.875 (22.2)	.187 (4.7)	175 (12.1)	700 (48.3)	3.00 (76)	.159 (.07)
STHT-R-0625	.625 (15.9)	1.000 (25.4)	.187 (4.7)	125 (8.6)	500 (34.5)	4.00 (102)	.221 (.10)
STHT-R-0750	.750 (19.1)	1.125 (28.6)	.187 (4.7)	105 (7.2)	425 (29.3)	4.00 (102)	.264 (.12)
STHT-R-0875	.875 (22.2)	1.250 (31.8)	.187 (4.7)	100 (6.9)	400 (27.6)	5.00 (127)	.310 (.14)
STHT-R-1000	1.000 (25.40)	1.375 (34.93)	.187	75	300	6.00	.347

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