

# Sani-Tech® STHT®-W Wire-Reinforced Silicone Hose



## Sani-Tech® STHT®-W Wire-Reinforced Silicone Hose & STHT®-W-CO Wire-Reinforced Silicone Hose with Outer Convuluted Cover

Sani-Tech® STHT®-W platinum-cured silicone wire-reinforced hose is wrapped with multi-ply reinforcement and 316L SS helical wire. This product is manufactured with an extruded homogeneous silicone tubing I.D. to ensure product integrity, designed for vacuum and tight bend radius applications.

Sani-Tech® STHT®-W-CO platinum-cured silicone wire-reinforced hose with outer convuluted cover employs a 316L SS wire helix, multiple plies of reinforcement and a convuluted outer cover for the ultimate in hose flexibility. An extruded homogeneous silicone tubing I.D. promotes product integrity.

### Characteristics

The manufacturing process is carefully controlled from receiving through production. Inspection and lot traceability 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. STHT®-W and STHT®-W-CO are available in custom coded coloring.

### Biocompatibility

Sani-Tech® STHT®-W and STHT®-W-CO are 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. Sani-Tech® STHT®-W and STHT®-W-CO platinum-cured braid-reinforced silicone hose have a masterfile with the U.S Food and Drug Administration. For additional compliance data please review characterization information on the back page.

## BIOPHARMACEUTICAL PRODUCTS

### Platinum-Cured Wire-Reinforced Silicone Hose

STHT®-W: Wire-Reinforced Silicone Hose

STHT®-W-CO: Wire-Reinforced Silicone Hose with Outer Convuluted Cover

### Features/Benefits

- Biopharmaceutical grade
- Excellent bend radius
- Unsurpassed surface smoothness
- Autoclavable and sterilizable
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Imparts no taste or odors
- Custom color coding available
- Available in 12-foot lengths

### Typical Applications

- Pharmaceutical processing
- Bio-technology
- Vacuum pump applications
- Bulk transfer
- Load cell

### Connections

- Sanitary, vulcanized, non-metallic fittings
- Radially crimped 316L SS or non-metallic fittings
- Adapter connections

## Sani-Tech® STHT®-W 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.	Vacuum Rating IN. HG
STHT-W-0500	.500 (12.70)	.830 (21.08)	.190	150	500	3.00	.30	29.9
STHT-W-0750	.750 (19.05)	1.130 (28.70)	.190	125	500	4.00	.39	29.9
STHT-W-1000	1.000 (25.40)	1.380 (35.05)	.190	125	500	6.00	.43	29.9
STHT-W-1500	1.500 (38.10)	1.880 (47.75)	.190	125	500	8.00	.72	29.9
STHT-W-2000	2.000 (50.80)	2.380 (60.45)	.190	100	350	8.00	1.1	29.9
STHT-W-2500	2.500 (63.50)	2.580 (65.53)	.190	75	350	9.00	1.1	29.9
STHT-W-3000	3.000 (76.20)	3.380 (85.85)	.190	75	350	10.00	1.4	29.9
STHT-W-4000	4.000 (101.60)	4.330 (109.98)	.190	C/F	C/F	C/F	C/F	C/F

NOTE: Burst pressure will decrease by 5% for each 200°F (93°C) increase up to 500°F (260°C) maximum pressure for STHT®-W.  
C/F: Consult Factory.

## Sani-Tech® STHT®-W-CO 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.	Vacuum Rating IN. HG
STHT-W-CO-0750	.750 (19.05)	1.130 (28.70)	.190	150	600	2.50	.39	29.9
STHT-W-CO-1000	1.000 (25.40)	1.380 (35.05)	.190	125	500	4.50	.43	29.9
STHT-W-CO-1500	1.500 (38.10)	1.880 (47.75)	.190	100	450	6.00	.72	29.9
STHT-W-CO-2000	2.000 (50.80)	2.380 (60.45)	.190	100	450	7.50	1.1	29.9
STHT-W-CO-2500	2.500 (63.50)	2.580 (65.53)	.190	85	350	9.50	1.15	29.9
STHT-W-CO-3000	3.000 (76.20)	3.380 (85.85)	.190	C/F	C/F	C/F	C/F	C/F

NOTE: Burst pressure will decrease by 5% for each 200°F (93°C) increase up to 500°F (260°C) maximum pressure for STHT®-W-CO.  
C/F: Consult Factory.

## 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

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

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## BIOPHARMACEUTICAL PRODUCTS

*Come through clean.™*

### Saint-Gobain Performance Plastics

460 Milltown Road  
Bridgewater, NJ 08807  
Tel: (908) 218-8888  
Fax: (908) 541-0024



**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.

## Sterilization Methods

- Autoclavable
- Radiation - up to 2.5 Mrad (25 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	1291
Ultimate Elongation, 100%	D412	693
Tear Resistance lb-f/inch (kN/m)	D624	329
Specific Gravity	D792	1.19
Tensile Modulus	D412	351

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.