

Sani-Tech® STHT-W and W-CO Platinum-Cured Wire-Reinforced Silicone Hose

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

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

Sani-Tech® STHT®-W-CO platinum-cured wire-reinforced silicone hose with outer convoluted cover employs a 316L SS wire helix, multiple plies of reinforcement and a convoluted 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 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. STHT®-W and STHT®-W-CO are available with custom coded coloring.

Biocompatibility

Sani-Tech® STHT®-W and STHT®-W-CO are manufactured from the finest grade of silicone materials and are fully characterized, validated and tested to a variety of specifications including USP Class VI criteria, ISO 10993-4 Hemolysis: Direct Contact, ISO 10993-4 Hemolysis: Indirect Contact, ISO 10993-10 Irritation and Skin Sensitization Tests, ISO 10993-11 Tests for Systemic Toxicity – Systemic Injection, and European Pharmacopoeia 3.1.9. For additional compliance data please review characterization information on the other side.

STHT®-W: Wire-Reinforced
Silicone Hose

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

Features/Benefits

- Excellent bend radius
- Unsurpassed surface smoothness
- Autoclavable and sterilizable
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- SANIseal® hose identification system offers labeling and custom color coding

Typical Applications

- Pharmaceutical processing
- Biotechnology
- Vacuum pump applications
- Bulk transfer
- Load cell

Connections

- Sanitary, radially crimped 316L SS or non-metallic fittings

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	.50 (12.70)	.88 (22.35)	.190	150	600	3.00	.30	29.9
STHT-W-0750	.75 (19.05)	1.13 (28.70)	.190	125	500	4.00	.39	29.9
STHT-W-1000	1.00 (25.40)	1.38 (35.05)	.190	125	500	6.00	.43	29.9
STHT-W-1500	1.50 (38.10)	1.88 (47.75)	.190	125	500	8.00	.72	29.9
STHT-W-2000	2.00 (50.80)	2.38 (60.45)	.190	100	400	8.00	1.1	29.9
STHT-W-2500	2.50 (63.50)	2.88 (73.15)	.190	85	350	9.00	1.1	29.9
STHT-W-3000	3.00 (76.20)	3.38 (85.85)	.190	75	300	10.00	1.4	29.9
STHT-W-4000	4.00 (101.60)	4.38 (111.25)	.190	75	300	36.00	C/F	C/F

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	.75 (19.05)	1.25 (31.75)	0.25	150	600	2.50	.39	29.9
STHT-W-CO-1000	1.00 (25.40)	1.50 (38.10)	0.25	125	500	4.50	.43	29.9
STHT-W-CO-1500	1.50 (38.10)	2.00 (50.80)	0.25	100	450	6.00	.72	29.9
STHT-W-CO-2000	2.00 (50.80)	2.50 (63.50)	0.25	100	450	7.50	1.1	29.9

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 10993-4 Hemolysis: Direct Contact, ISO 10993-4 Hemolysis: Indirect Contact, ISO 10993-10 Irritation and Skin Sensitization Tests, ISO 10993-11 Tests for Systemic Toxicity – Systemic Injection
- FDA 21 CFR 177.2600
- 3A approved

To request a validation summary, please go to our website, www.biopharm.saint-gobain.com/en/productvalidationguides

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Sterilization Methods

- Autoclavable
- Radiation — up to 2.5 Mrad (25 Kilogray)
- Gas — ethylene oxide

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

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

Sani-Tech® and STHT® are registered trademarks.

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain Performance Plastics assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product to be free of 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.

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