

# Saint-Gobain Life Sciences – Bioprocess Solutions



# 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 single or double packaged, as requested, in an ISO 7 clean room. Inspection and lot traceability are readily accessible as batch numbers are assigned. All products are identifiable by labeling on both the shipping box and the bagging that holds the hose.

Saint-Gobain Life Sciences' 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 European Pharmacopoeia 3.1.9. Sani-Tech® STHT®-R meets the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5 For additional compliance data please contact our customer service department.

# Platinum-Cured Braid-Reinforced Silicone Hose

# **Features/Benefits**

- Meets the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5
- 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

# **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	D412	1376		
Elongation, %	D412	668		
100% Modulus, psi	D412	444		
Tear Resistance, lb-f/inch	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.

# **General Sterilization Methods**

### Autoclavable

• Irradiation (gamma and x-ray) - up to 50 kGy

• 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  ${\sf STHT}^*$  silicone hose in hot oil or acid applications.

### **Biocompatible and Regulatory Compliant**

Sani-Tech® STHT®-R is manufactured from platinum-cured silicone materials and tested to a variety of specifications including:

### ADCF/BSE/TSE statements

USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5 I

### EP 3.1.9

For additional compliance data visit www.biopharm.saint-gobain.com to download the Technical Dossier or contact our customer service department.

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

Part number	ID		OD Wall		all	Burst Pressure		Recommended Working Pressure		Minimum Bend Radius		Weight*		
	in	mm	in	mm	in	mm	psi	bar	psi	bar	in	mm	lb/ft	kg/m
STHT-R-0125	0.125	3.2	0.355	9.0	0.115	2.9	777	53.6	194	13.4	0.29	7.4	0.045	0.067
STHT-R-0187	0.188	4.8	0.447	11.4	0.130	3.3	647	44.6	162	11.2	0.63	16.0	0.067	0.099
STHT-R-0250	0.250	6.4	0.500	12.7	0.125	3.2	597	41.2	149	10.3	0.38	9.7	0.076	0.113
STHT-R-0375	0.375	9.5	0.625	15.9	0.125	3.2	582	40.1	146	10.1	1.14	29.0	0.101	0.150
STHT-R-0500	0.500	12.7	0.875	22.2	0.188	4.7	769	53.0	193	13.3	1.05	26.7	0.205	0.305
STHT-R-0625	0.625	15.9	1.000	25.4	0.188	4.7	631	43.5	158	10.9	1.62	41.1	0.238	0.354
STHT-R-0750	0.750	19.1	1.125	28.6	0.188	4.7	371	25.6	93	6.4	2.61	66.3	0.287	0.427
STHT-R-0875	0.875	22.2	1.250	31.8	0.188	4.7	315	21.7	79	5.4	3.47	88.1	0.322	0.479
STHT-R-1000	1.000	25.4	1.375	34.9	0.188	4.7	246	17.0	62	4.3	4.42	112.3	0.362	0.538

Standard coil length is 25 feet. 50 foot coils available by adding "F" to the end of the part number.

Burst pressure test method is ASTM D1599; test media is water. Many factors can reduce or increase the tubing's ability to withstand pressure. It is imperative that the user conducts tests simulating the conditions of application prior to specifying the tubing for use.

Some part numbers may be subject to a minimum order quantity.

\*Weights displayed here are reference values; actual values may differ due to dimensional tolerances.

Sani-Tech® and STHT® are registered trademarks.



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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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