

Sani-Tech® STHT®-R-HD

Heavy Duty Silicone Hose

Ideal for Elevated Pressure Applications

Sani-Tech® STHT®-R-HD high purity grade silicone hose is ideally suited for elevated pressure applications where strength, durability and continuous length are critical. Designed to meet the specific requirements of the pharmaceutical customer, this hose offers a high pressure rating, and unsurpassed performance characteristics.

Characteristics

Sani-Tech® STHT®-R-HD is a non-metallic reinforced platinum-cured silicone hose that can be repeatedly sterilized by autoclave, radiation, or ethylene oxide gas. This product remains flexible and performs as specified through a temperature range of -80°F (-62°C) to 500°F (260°C). Sani-Tech STHT-R-HD is available in sizes ranging from 1/2" ID through 2" ID enabling the specifier or user the flexibility of properly sizing the application. Sani-Tech STHT-R-HD comes in white (standard) as stocked products. Consult the factory for additional colors or customization options.

Biocompatibility

Sani-Tech®, STHT®-R-HD is manufactured from Sani-Tech® 65 brand silicone resin, a highly biocompatible silicone hose which meets USP Class VI, FDA CFR 177.2600, ISO 10993 and European Pharmacopoeia 3.1.9 standards. For additional compliance data please refer to the characterization information on the back page.

Features / Benefits

- High pressure ratings
- USP Class IV platinum-cured silicone
- Ultra-flexibility
- Improved bend radius over wire reinforced hose
- Sterilizable via autoclave or gamma
- Supplied in continuous lengths to reduce installation time
- Available in custom colors for line identification

Single-use Applications

- Load cell
- Skid transfer
- Pump cultures
- Vessel or tank transfer
- Laboratory use
- Media dispensing
- Bioreactor process lines

Connection

- Radially crimped 316L SS fittings

(consult factory for other connection options)

Sani-Tech® STHT®-R-HD Platinum-Cured Heavy Duty Reinforced Hose

Characterization

The bio-compatibility of STHT platinum-cured silicone manufactured with Sani-Tech® silicone has been tested and complies with the parameters set forth in the following test protocols:

Sani-Tech® STHT®-R-HD Toxicological Profile

- USP Class VI Systemic Toxicity and Intracutaneous Reactivity
- USP Intramuscular implant
- Cytotoxicity
- Pyrogen testing
- Hemolysis testing
- European Pharmacopoeia 3.1.9

Sterilization Methods

- Autoclavable
- Radiation - up to 5.0 Mrad (50 Kilogray)
- Gas - Ethylene Oxide

Inventory Sizes

Part Number	ID Inches (mm)	OD Inches (mm)	Supplied Length feet (cm)	Maximum Working Pressure PSI (bar) at 68°F	Minimum Bend Radius Inches (mm)	Minimum Burst Pressure PSI (bar) at 68°F
STHT-R-HD-0500	.500 (12.7)	.890 (20)	50 (1524)	200 (13.8)	2.50 (63.5)	800 (55)
STHT-R-HD-0750	.750 (19)	1.180 (30)	50 (1524)	170 (11.7)	3.00 (76.2)	680 (47)
STHT-R-HD-1000	1.000 (25.4)	1.430 (36)	50 (1524)	125 (8.6)	3.50 (88.9)	500 (35)
STHT-R-HD-1500	1.500 (38)	2.142 (54)	25 (762)	100 (6.9)	6.50 (165.1)	400 (28)
STHT-R-HD-2000	2.000 (50.8)	2.695 (69)	25 (762)	75 (5.2)	9.50 (241.3)	300 (21)

Temperature range: -80°F (-62°C) to 500°F (260°C)

Typical Physical Properties

Property	ASTM Method	Value or Rating (metric)
Durometer Hardness Shore A, 15 Sec	D2240	65
Tensile Strength psi, (MPa)	D412	1291 (8.9)
Ultimate Elongation, %	D412	580
Tear Resistance lb-f/inch (kN/m)	D624	343 (60.0)
Specific Gravity	D792	1.22
Tensile Modulus, @ 100% Elongation, psi (MPa)	D412	448 (3.1)

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.

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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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