Sani-Tech® STHT™-R Braid-Reinforced Silicone Hose

BIOPHARMACEUTICAL PRODUCTS

Platinum-Cured 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, ozone, corona, radiation, moisture, compression sets, weathering and chemical attack and imparts no taste or odors 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. 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. Sani-Tech® STHT™-R can be manufactured with a variety of custom colored striping and braiding color selections.

Biocompatibility

Sani-Tech® STHT™-R is 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. For additional compliance data please contact our customer service department. Sani-Tech® STHT™-R platinum-cured braid-reinforced silicone hose has a masterfile with the U.S Food and Drug Administration.

Features/Benefits

- Biopharmaceutical Grade
- High Pressure Rating
- Ultra-flexible
- Improved Bend Radius over Wire-reinforced Hose
- Autoclavable and Sterilizable
- Temperature Range From -80°F (-62°C) to 500°F (260°C)
- Imparts No Taste or Odors
- Color Striping Available
- Available in 50 ft. 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
- Adaptor Connections

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Sani-Tech® STHT™-R 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.
STHT-R-0062	.062 (1.57)	.272 (6.91)	.105	200	775	C/F	C/F
STHT-R-0125	.125 (3.18)	.355 (9.02)	.115	175	700	C/F	C/F
STHT-R-0187	.187 (4.75)	.447 (11.35)	.130	160	650	C/F	C/F
STHT-R-0250	.250 (6.35)	.500 (12.70)	.125	170	575	1.00	.080
STHT-R-0375	.375 (9.53)	.625 (15.88)	.125	150	650	2.00	.117
STHT-R-0500	.500 (12.70)	.875 (22.23)	.187	140	500	3.00	.159
STHT-R-0625	.625 (15.88)	1.000 (25.40)	.187	115	400	4.00	.221
STHT-R-0750	.750 (19.05)	1.125 (28.58)	.187	100	350	4.00	.264
STHT-R-0875	.875 (22.23)	1.250 (31.75)	.187	100	400	5.00	.310
STHT-R-1000	1.000 (25.40)	1.375 (34.93)	.187	65	225	6.00	.347

NOTE: Burst pressure will decrease by 10% for each 200°F (93°C) increase up to 500°F (260°C) maximum pressure for STHT™-R.

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

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	1376
Ultimate Elongation, 100%	D412	668
Tear Resistance lb-f/inch (kN/m)	D624	326
Specific Gravity	D792	1.21
Tensile Modulus	D412	444

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.

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

BIOPHARMACEUTICAL PRODUCTS
Come through clean.℠

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