



Heavy Duty—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 complete lot traceability, and unsurpassed performance characteristics.

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, USDA, ISO 10993 and European Pharmacopoeia 3.1.9 standards. For additional compliance data please refer to the characterization information on the back page.

Characteristics

Sani-Tech STHT-R-HD is a non-metallic reinforced platinum-cured silicone hose that can be repeatedly autoclaved, radiated, or sterilized by 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), red, and blue as stocked products. Consult the factory for additional colors or customization options. Sani-Tech STHT-R-HD has a Master File with the U.S. Food and Drug Administration.

BIOPHARMACEUTICAL PRODUCTS

Heavy Duty, Platinum-Cured Reinforced Silicone Hose

Features/Benefits

- High pressure ratings
- Biopharmaceutical grade platinum-cured silicone
- Ultra-flexibility
- Improved bend radius over wire reinforced hose
- Sterilizable
- Autoclavable
- Imparts no taste or odor
- Supplied in continuous lengths to reduce installation time
- Available in custom colors for line identification
- Lot number traceability

Typical Applications

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

Connections

- Radially crimped 316L SS fitting
(Consult Sani-Tech West for other connection options)

Sani-Tech® STHT®-R-HD Hose Inventory Sizes

| Part Number | ID Inches (mm) | OD Inches (mm) | Supplied Length (feet) | Maximum Working Pressure PSI at 68°F | Minimum Burst Pressure PSI at 68°F | Minimum Bend Radius Inches |
|----------------|----------------|----------------|------------------------|--------------------------------------|------------------------------------|----------------------------|
| STHT-R-HD-0500 | .500 (12.7) | .890 (22.606) | 50' | 200 | 800 | 2.50 |
| STHT-R-HD-0750 | .750 (19.05) | 1.180 (29.972) | 50' | 170 | 680 | 3.00 |
| STHT-R-HD-1000 | 1.000 (25.4) | 1.430 (36.322) | 50' | 125 | 500 | 3.50 |
| STHT-R-HD-1500 | 1.500 (38.1) | 2.142 (54.407) | 25' | 100 | 400 | 6.50 |
| STHT-R-HD-2000 | 2.000 (50.8) | 2.695 (68.453) | 25' | 75 | 300 | 9.50 |

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

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:

- 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

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 | 1.21 |
| Tensile Modulus @ 100% Elongation, psi (MPa) | D412 | 448 (3.1) |

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

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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.

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