



# PLTS-Q50 BioPh Silicone Tubing

**SaniSure PLTS-Q50 was developed as a more affordable platinum silicone tubing for Single Use applications. With a shore A of 50 it is softer and compliant and works well with bulk transfer and general pumping applications.**

- ISO Class 7 cleanroom manufacturing
- Standard and customer sizes available
- Manufactured for pharmaceutical and biomedical applications

## Key Features

- Platinum cured Silicone
- Translucent (Good Clarity)
- Hardness: durometer 50 Shore A
- Tasteless, odorless, noncytotoxic and nonhemolytic
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low-binding surface minimizes absorption of proteins and food products
- Sterilization Methods: autoclave, gamma irradiation, EtO, and chemical sterilants
- Working Low Temperature Range: -100°F (-73.3°C)
- Working High Temperature Range: 400°F (204.4°C)

## Applications

- Single Use
- Transfer Lines
- Cell media processing
- Bioreactor process lines
- Production filtration and fermentation
- Diagnostics and laboratory testing

## Compliance

- U.S. Pharmacopeia 43, National Formulary 38 (USP), General Chapter <88> Class VI, Biological Reactivity Tests, In Vivo (2020)
- U.S. Pharmacopeia 43, National Formulary 38 (USP), General Chapter <87> Class VI, Biological Reactivity Tests, In Vitro (2020)
- ISO 10993 (various parts)
- Request our comprehensive extractables and biocompatibility study for this product: [sanisure.com/resources](https://sanisure.com/resources)

## Physical

## Typical Values

<b>Shore A Hardness</b>	50
<b>Tensile (PSI)</b>	1232 (Min.)
<b>Elongation (%)</b>	450 (Min.)
<b>Tear Strength - PPI</b>	171 (Min.)



## Regulatory Testing

### Biocompatibility USP <87> and USP <88><sup>2</sup>

Based on the testing performed by SaniSure on representative samples of the above product, this product meets the requirements of the standards listed below:

- USP <87>
- USP <88>

### Biocompatibility Cont. (ISO 10993 and USP Class VI)<sup>1</sup>

A Representative sample of the compound used to manufacture this product has been tested according to ISO 10993 and USP Class VI testing requirements. The sample met the requirements of the following tests:

- Systemic Injection Test (USP Class VI and ISO 10993)
- Intracutaneous Toxicity Test (USP Class VI and ISO 10993)
- Intramuscular Implantation Test (USP Class VI and ISO 10993)
- Agar Diffusion (ISO 10993-5)
- L929 MEM Elution (ISO 10993-5)
- Hemolysis-Rabbit Blood (ISO 10993-4)
- Sensitization (Kligman Maximization) (ISO 10993-10)
- Mutagenicity (Ames Assay) (ISO 10993-3)

### Extractables - USP<sup>2</sup>

Based on the testing performed by SaniSure on representative samples of the above product, this product meets the requirements of the standards listed below:

- BPOG
- USP <665>
- USP <661.2>

<sup>1</sup>The biocompatibility information listed in this section is based on information provided by our compound source. Testing is based on single lots, although lot-to-lot variance would not be expected to show different results.

<sup>2</sup>The assessment is available upon request at <https://sanisure.com/resources/>

## Manufacturing Standard

The above material is manufactured in an ISO 9001:2015 accredited facility. Furthermore, this product is manufactured in an ISO 14644-1 Class 7 cleanroom.

## Dimensional Tolerance

Inside and outside diameter tolerances are maintained to RMA E1 tolerances.

## Presence of Substance

Based on the information made available to SaniSure by its material supplier, none of the following compounds are intentionally added in as a 'raw material' or as a 'process aid' to the above product:

- Bisphenol A (BPA)
- Melamine
- Latex
- N-Nitrosamines
- Phthalates
- Slip Agents

## European Union REACH Directive Substances of Very High Concern (SVHC)

The above product is known to contain the below SVHC in the listed quantities. This information is based on the EU REACH list as of June 08, 2021.

Chemical Name	CAS-No	Concentration
Dodecamethylcyclohexasiloxane	540-97-6	≤0,223%
Decamethylcyclopentasiloxane	541-02-6	≤0,22%
Octamethylcyclotetrasiloxane	556-67-2	≤0,19%



## Animal Derivatives, Plant Derivatives, BSE/TSE Statement\*

This product line is formulated from entirely synthetic ingredients; therefore, these polymers contain no animal byproducts, no substances of animal origin, nor are the polymers derived from specified risk materials for BSE/TSE.

\*Please note that the information provided is based on best available knowledge; we do not test for the presence of trace amounts of substances that may be introduced our products as contaminants. We do not routinely analyze our products for the presence of the above reportable substances; however, based on information provided by our supplier and to the best of our knowledge, the above material is free from animal derivatives.

### Genetically Modified Organisms (GMO)

This product is not manufactured with any genetically modified organisms (GMO's).

## Sterilization

### Gamma Irradiation:

The recommended maximum dosage for gamma irradiation of the above product is 50 kGy. When required of SaniSure, the standard range for gamma irradiation of products is between 25 and 40 kGy.

### Autoclave:

The above product is generally compatible with autoclave sterilization. Please note that users must validate their sterilization conditions and procedure to ensure this product is suitable for a particular application. Below are some examples of common autoclave conditions:

- 30 minutes at 121 °C (250 °F)
- 10 minutes at 132 °C (270 °F)

## Shelf Life and Storage Conditions

If stored according to the following recommendations, SaniSure recommends that customers dispose of this product after eight (8) years from the date of manufacturing. Store this product in an ambient temperature and humidity environment. The product should be free from exposure to direct outside weather influences and stored in a dark space out of direct contact with light. The area should be free from volatile solvents, corrosive gases, or other potentially harmful vapors. Stack the product flat in an opaque container during storage. The container should be kept off the floor (e.g., on shelving or skids) and remain closed and sealed while in storage. The product should be free of kinking and not be subjected to crushing forces from the weight of the product above it.



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## Sizing Chart

Part Number	Pump Size	ID		OD		Wall Thickness	
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)
PLTS-Q50-062x187	N/A	0.062	1.5	0.187	4.7	0.062	1.6
PLTS-Q50-093x218	N/A	0.093	2.3	0.218	5.5	0.062	1.6
PLTS-Q50-093x281	N/A	0.093	2.3	0.281	7.1	0.094	2.4
PLTS-Q50-125x250	N/A	0.125	3.1	0.25	6.3	0.062	1.6
PLTS-Q50-125x312	N/A	0.125	3.1	0.312	7.9	0.093	2.4
PLTS-Q50-187x312	N/A	0.187	4.7	0.312	7.9	0.062	1.6
PLTS-Q50-187x375	N/A	0.187	4.7	0.375	9.5	0.094	2.4
PLTS-Q50-250x375	N/A	0.248	6.3	0.375	9.5	0.062	1.6
PLTS-Q50-250x437	N/A	0.248	6.3	0.437	11.1	0.093	2.4
PLTS-Q50-250x500	N/A	0.248	6.3	0.500	12.7	0.125	3.2
PLTS-Q50-312x437	N/A	0.312	7.9	0.437	11.1	0.093	2.4
PLTS-Q50-312x500	N/A	0.312	7.9	0.500	12.7	0.125	3.2
PLTS-Q50-312x562	N/A	0.312	7.9	0.562	14.3	0.125	3.2
PLTS-Q50-375x500	N/A	0.375	9.5	0.500	12.7	0.094	2.4
PLTS-Q50-375x562	N/A	0.375	9.5	0.562	14.3	0.125	3.2
PLTS-Q50-375x625	N/A	0.375	9.5	0.625	15.9	0.125	3.2
PLTS-Q50-500x687	N/A	0.500	12.7	0.687	17.5	0.156	4.0
PLTS-Q50-500x750	N/A	0.500	12.7	0.750	19.1	0.125	3.2
PLTS-Q50-625x875	N/A	0.625	15.8	0.875	22.2	0.062	1.6
PLTS-Q50-750x1000	N/A	0.748	19.0	1.000	25.4	0.062	1.6
PLTS-Q50-750x1125	N/A	0.748	19.0	1.125	28.5	0.062	1.6
PLTS-Q50-875x1125	N/A	0.875	22.2	1.125	28.5	0.062	1.6
PLTS-Q50-875x1250	N/A	0.875	22.2	1.248	31.7	0.187	4.8
PLTS-Q50-1000x1250	N/A	1.000	25.4	1.248	31.7	0.187	4.8
PLTS-Q50-1000x1375	N/A	1.000	25.4	1.375	34.9	0.187	4.8

**NOTE:** Standard coil length is 50 feet. Other length and spools available, consult factory.  
Custom sizes available

### Tubing has no printing

Please contact our quality department for the most up-to-date regulatory information. Specifications in this document are subject to change without notice.

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