

## APST Silicon Tubing

### Description/Construction

The APST hose from AdvantaPure® is an extremely flexible, particularly high-purity, platinum-cured, high-quality silicone hose. It is manufactured and packaged in a certified ISO 14644 Class 7 clean room.

**BSE/TSE-free** products are guaranteed in production and packaging. Due to this production method, it is predestined for sterile applications and is therefore the basic product for all silicone tubing systems that are manufactured for SINGLE USE applications.

The APST hose has been subjected to an extensive program of physical, chemical and biological tests. A detailed description can be found under the item specification.

The APST hose is resistant to ozone and UV radiation and is characterized by good chemical resistance.

The hose is also suitable for sterilization by autoclaving, for radiation sterilization (gamma radiation) and SIP/CIP cleaning.

The product is not suitable for long-term steam use, as steam accelerates the natural aging process of the silicone. Furthermore, the APST tube is not to be used as an implant.

Due to its material advantages, the main areas of application are the pharmaceutical industry, medical technology and biotechnology.

### Specifications/Dimensions

Due to the large number of possible inner diameters in combination with the wall thickness, you will find a list with the standard dimensions in the APST hose table.

Shore A hardness  $50 \pm 5$  quality (according to ASTM D 2240)

The APST hose is in a temperature range of  $-73.3\text{ °C}$  to  $+204.4\text{ °C}$  can be used (depending on the medium).



### Specifications

The APST hose is manufactured from a specified raw material in Shore A hardness 50 ± 5 quality (designation NI 201). This quality meets the following guidelines, among others:

- FDA 21 CFR 177.2600
- USP <85> Bacterial Endotoxin Test
- USP <87> In Vitro, L929 MEM Elution Test
- USP <88> In Vivo, USP Class VI
- USP <381> Elastomeric Closures for Injection Test
- USP <661> Physicochemical Test for plastics
- USP <788> Microscopic Particle Count Test
- ISO 10993-3, -4, -10 und -11

- Europäische Pharmakopöe 3.1.9.
- 18-03  
3A Sanitary Standard
- EPA 6010A  
Metal Analysis
- Extractables-Studie

All tests have been carried out on the end product by accredited laboratories.

The comprehensive validation program is available on request.

### APST - Tubing Chart

ID x Wall	Operating Pressure*	Article Number	ID x Wall	Operating Pressure*	Article Number
mm	bar		mm	bar	
1,6 x 1,6	2,3	APST160160	7,9 x 1,6	0,8	APST790160
3,2 x 1,6	1,6	APST320160	7,9 x 2,4	1,2	APST790240
3,2 x 2,4	2,0	APST320240	7,9 x 3,2	1,4	APST790320
4,8 x 1,6	1,1	APST480160	9,5 x 2,4	1,1	APST950240
4,8 x 2,4	1,4	APST480240	9,5 x 3,2	1,1	APST950320
6,4 x 1,6	0,9	APST640160	12,7 x 3,2	0,8	APST127320
6,4 x 2,4	1,2	APST640240	15,9 x 3,2	0,8	APST159320
6,4 x 3,2	1,5	APST640320	19,0 x 3,2	0,7	APST190320

Other dimensions are available on request. / \* in bar at 20°C. Standard roll length = 30.48m

The restrictions on use stated are always to be understood as a guide only. Such a list can never account for (all possible factors) the wide variety of different applications.