

+ Innovasil® P 50 Ultra Peristaltic pump silicone tubing

Innovasil P 50 Ultra series is specially developed for the use of single-use systems for biopharmaceuticals. It adopts platinum vulcanization system and high-purity silica gel raw materials, with special post-processing technology, and is produced and processed in NEBB-certified ISO Class 7 clean production workshops. Packaged so that the product is of high purity and very low leachable levels. At the same time, the advanced technology ensures that the product has a very smooth inner surface, which minimizes protein binding and ensures high purity of the finished product. The whole batch of raw materials and production process can be traced, and the authoritative third-party testing organization in the United States has a complete research report on biocompatibility and dissolved substances.

The Ultra series adopts a special formula to greatly increase the service life of the peristaltic pump while maintaining flow stability.

Adopt precision extrusion process, strictly control the dimensional tolerance, and can customize the cutting length. It can also be used for secondary treatment processes such as bonding buckles, shaping, coding, laser etching, etc., and customized production.

+ Innovasil® P 50 Ultra Product Specification

Pharmaceutical grade peristaltic pump silicone tubing		
Feature	Platinum cured silicone tubing - Suitable for use with peristaltic pumps - Chemical resistance, resistant to dye, detergent, vinegar, etc. - Smooth inner wall, low spalling - Clean room production - Sterilizable	
Caution	Avoid high pressure	
Material	Platinum cured silicone	
Operating temperature range	-40°C to +200C	
Physical properties	Colorless & transparent 50A Shore A Hardness ASTM D 2240 1.14 g/cm3 Density ASTM D792 9.7 MPa Tensile Strength at Break ASTM D 412 1000 % Tensile Elongation ASTM D 412 45 kN/m Tear Strength ASTM D 1004-94 17% Permanent Compression Set 70°C 22Hrs ASTM D 395	
Regulations and Certifications	FDA, ISO 10993, USP, RoHS, REACH	
Sterilization	121 °C 30 minutes steam sterilization single pass ETO ethylene oxide sterilized single-shot 25kGy irradiation sterilization single time	
Gas permeability	CO ₂ 25147 Gas volume [cm3] x wall thickness [mm] x 10 ⁻¹⁰ O ₂ 4715 Inner Diameter Sectional Area [cm2] x Time [sec] N ₂ 2284 x Pressure drop along pipe wall [cm Hg]	
Odor	none	
Toxicity	none	
Theoretical service life	at 0 bar life 200 hrs at 0.7 bar 90 hrs	



*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Per Package Length* (m) (foot)
SPU29-202-0050-0150	Metric size	0.50	1.50	0.50	15.2 50
SPU29-202-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50
SPU29-202-0100-0200	Metric size	1.00	2.00	0.50	15.2 50
SPU29-202-0150-0250	Metric size	1.50	2.50	0.50	15.2 50
SPU29-202-0100-0300	Metric size	1.00	3.00	1.00	15.2 50
SPU29-202-0159-0318		1.59 1/16	3.18 1/8	0.79 1/32	15.2 50
SPU29-202-0159-0476	14#	1.59 1/16	4.76 3/16	1.59 1/16	15.2 50
SPU29-202-0159-0635	119#	1.59 1/16	6.35 1/4	2.38 3/32	15.2 50
SPU29-202-0200-0400	Metric size	2.00	4.00	1.00	15.2 50
SPU29-202-0238-0556	19#	2.38 3/32	5.56 7/32	1.59 1/16	15.2 50
SPU29-202-0300-0500	Metric size	3.00	5.00	1.00	15.2 50
SPU29-202-0318-0476		3.18 1/8	4.76 3/16	0.79 1/32	15.2 50
SPU29-202-0318-0635	16#	3.18 1/8	6.35 1/4	1.59 1/16	15.2 50
SPU29-202-0318-0794	120#	3.18 1/8	7.94 5/16	2.38 3/32	15.2 50
SPU29-202-0397-0714		3.97 5/32	7.14 9/32	1.59 1/16	15.2 50
SPU29-202-0476-0794	25#	4.76 3/16	7.94 5/16	1.59 1/16	15.2 50
SPU29-202-0476-0953	15#	4.76 3/16	9.53 3/8	2.38 3/32	15.2 50
SPU29-202-0635-0953	17#	6.35 1/4	9.53 3/8	1.59 1/16	15.2 50
SPU29-202-0635-1111	24#	6.35 1/4	11.11 7/16	2.38 3/32	15.2 50
SPU29-202-0635-1270	26#	6.34 1/4	12.70 1/2	3.18 1/8	15.2 50
SPU29-202-0794-1111	18#	7.94 5/16	11.11 7/16	1.59 1/16	15.2 50
SPU29-202-0794-1270	35#	7.94 5/16	12.70 1/2	2.38 3/32	15.2 50
SPU29-202-0953-1270	96#	9.53 3/8	12.70 1/2	1.59 1/16	15.2 50
SPU29-202-0953-1429	36#	9.53 3/8	14.29 9/16	2.38 3/32	15.2 50
SPU29-202-0953-1588	73#	9.53 3/8	15.88 5/8	3.18 1/8	15.2 50
SPU29-202-1111-1429		11.11 7/16	14.29 9/16	1.59 1/16	15.2 50
SPU29-202-1270-1588		12.70 1/2	15.88 5/8	1.59 1/16	15.2 50
SPU29-202-1270-1905	82#	12.70 1/2	19.05 3/4	3.18 1/8	15.2 50
SPU29-202-1270-2223	88#	12.70 1/2	22.23 7/8	4.76 3/16	15.2 50
SPU29-202-1588-2064		15.88 5/8	20.64 13/16	2.38 3/32	15.2 50
SPU29-102-1588-2223	184#	15.88 5/8	22.23 7/8	3.18 1/8	7.62 25
SPU29-102-1588-2540	89#	15.88 5/8	25.4 1	4.76 3/16	7.62 25
SPU29-102-1905-2540		19.05 3/4	25.4 1	3.18 1/8	7.62 25
SPU29-102-1905-2858	191#	19.05 3/4	28.58 1-1/8	4.76 3/16	7.62 25
SPU29-102-1905-3175	91#	19.05 3/4	31.75 1-1/4	6.35 1/4	7.62 25
SPU29-102-2540-3175		25.40 1	31.75 1-1/4	3.18 1/8	7.62 25
SPU29-102-2540-3493	92#	25.40 1	34.93 1-3/8	4.76 3/16	7.62 25
SPU29-102-2540-3810		25.40 1	38.10 1-1/2	6.35 1/4	7.62 25

+ Innovasil® P 65 Pharmaceutical Grade Silicone Tubing

- Longest service life of Innovalene tubing material
- Excellent choice where purity and good pumping performance is needed

Innovasil P 65 series are biopharmaceutical grade platinum cured silicone tubing with Shore A 65 hardness. It is specially developed for the use of single-use systems for biopharmaceuticals. It adopts platinum vulcanization system and high-purity silica gel raw materials, with special post-processing technology, and is produced and packaged in NEBB-certified ISO Class 7 clean production workshops, so that the products have High purity and extremely low leachables levels. At the same time, the advanced technology ensures that the product has a very smooth inner surface, which minimizes protein binding and ensures high purity of the finished product. The whole batch of raw materials and production process can be traced, and the authoritative third-party testing organization in the United States has a complete research report on biocompatibility and dissolved substances.

+ Innovasil® P 65 Product Specification

Pharmaceutical grade peristaltic pump silicone tubing		
Feature	Platinum cured silicone tubing - Suitable for use with peristaltic pumps - Chemical resistance, resistant to dye, detergent, vinegar, etc. - Smooth inner wall with low spalling - Clean production - Sterilizable	
Caution	Avoid high pressure	
Material	Platinum cured silicone	
Operating temperature range	-40°C to +200C	
Physical properties	Colorless & transparent 65A Shore A Hardness ASTM D 2240 1.15 g/cm3 Density ASTM D792 9.7 MPa Tensile Strength at Break ASTM D 412 1000 % Tensile Elongation ASTM D 412 45 kN/m Tear Strength ASTM D 1004-94 17% Permanent Compression Set 23°C 22Hrs ASTM D 395	
Regulations and Certifications	FDA, ISO 10993, USP, RoHS, REACH	
Sterilization	121 °C 30 minutes steam sterilization single pass ETO ethylene oxide sterilized single-shot 25kGy irradiation sterilization single time	
Gas permeability	CO ₂ 25147 Gas volume [cm3] x wall thickness [mm] x 10 ⁻¹⁰ O ₂ 4715 Inner Diameter Sectional Area [cm2] x Time [sec] N ₂ 2284 x Pressure drop along pipe wall [cm Hg]	
Odor	none	
Toxicity	none	
Theoretical service life	at 0 bar life 250 hrs at 0.7 bar 130 hrs	

*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Per Package Length* (m) (foot)
SP59-202-0050-0150	Metric size	0.50	1.50	0.50	15.2 50
SP59-202-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50
SP59-202-0100-0200	Metric size	1.00	2.00	0.50	15.2 50
SP59-202-0150-0250	Metric size	1.50	2.50	0.50	15.2 50
SP59-202-0100-0300	Metric size	1.00	3.00	1.00	15.2 50
SP59-202-0159-0318		1.59 1/16	3.18	0.79 1/32	15.2 50
SP59-202-0159-0476	14#	1.59 1/16	4.76	1.59 1/16	15.2 50
SP59-202-0159-0635	119#	1.59 1/16	6.35	2.38 3/32	15.2 50
SP59-202-0200-0400	Metric size	2.00	4.00	1.00	15.2 50
SP59-202-0238-0556	19#	2.38 3/32	5.56	1.59 1/16	15.2 50
SP59-202-0300-0500	Metric size	3.00	5.00	1.00	15.2 50
SP59-202-0318-0476		3.18 1/8	4.76	0.79 1/32	15.2 50
SP59-202-0318-0635	16#	3.18 1/8	6.35	1.59 1/16	15.2 50
SP59-202-0318-0794	120#	3.18 1/8	7.94	2.38 3/32	15.2 50
SP59-202-0397-0714		3.97 5/32	7.14	1.59 1/16	15.2 50
SP59-202-0476-0794	25#	4.76 3/16	7.94	1.59 1/16	15.2 50
SP59-202-0476-0953	15#	4.76 3/16	9.53	2.38 3/32	15.2 50
SP59-202-0635-0953	17#	6.35 1/4	9.53	1.59 1/16	15.2 50
SP59-202-0635-1111	24#	6.35 1/4	11.11	2.38 3/32	15.2 50
SP59-202-0635-1270	26#	6.34 1/4	12.70	3.18 1/8	15.2 50
SP59-202-0794-1111	18#	7.94 5/16	11.11	1.59 1/16	15.2 50
SP59-202-0794-1270	35#	7.94 5/16	12.70	2.38 3/32	15.2 50
SP59-202-0953-1270	96#	9.53 3/8	12.70	1.59 1/16	15.2 50
SP59-202-0953-1429	36#	9.53 3/8	14.29	2.38 3/32	15.2 50
SP59-202-0953-1588	73#	9.53 3/8	15.88	3.18 1/8	15.2 50
SP59-202-1111-1429		11.11 7/16	14.29	1.59 1/16	15.2 50
SP59-202-1270-1588		12.70 1/2	15.88	1.59 1/16	15.2 50
SP59-202-1270-1905	82#	12.70 1/2	19.05	3.18 1/8	15.2 50
SP59-202-1270-2223	88#	12.70 1/2	22.23	4.76 3/16	15.2 50
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SP59-102-1905-2858	191#	19.05 3/4	28.58	4.76 3/16	7.62 25
SP59-102-1905-3175	91#	19.05 3/4	31.75	6.35 1/4	7.62 25
SP59-102-2540-3175		25.40 1	31.75	3.18 1/8	7.62 25
SP59-102-2540-3493	92#	25.40 1	34.93	4.76 3/16	7.62 25
SP59-102-2540-3810		25.40 1	38.10	6.35 1/4	7.62 25