

## PUMPSIL TUBING

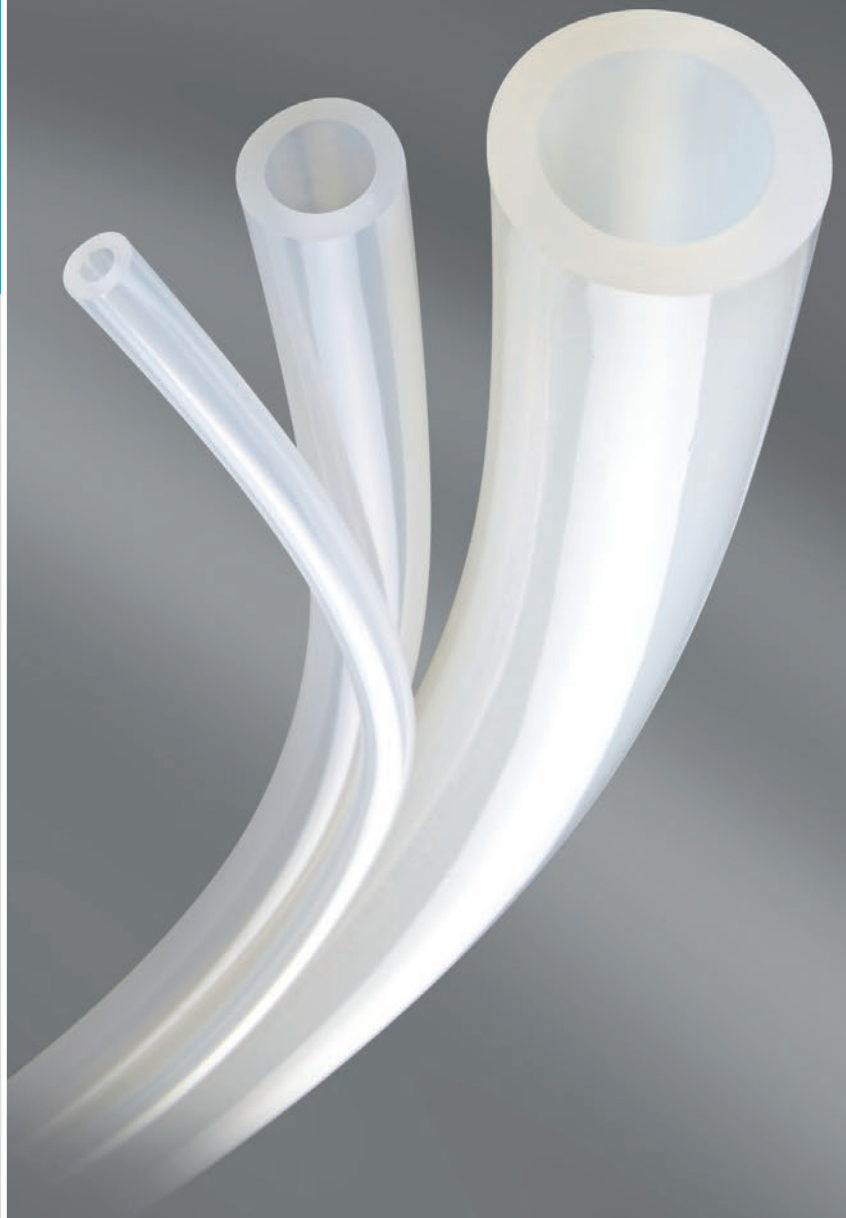
Platinum-cured silicone tubing

Ideal for:

**Single-use biopharm applications. Accurate metering, transfer and filtration**

Developed for the biopharmaceutical industry, Pumpsil is exceptionally pure tubing offering an ultra-smooth bore which helps minimise protein binding and ensures high purity in the finished product.

- Fully documented biocompatibility and comprehensive validation pack
- Absolute traceability with laser-etched part number, lot number and use-by date
- Excellent flow stability for accurate process control
- Comprehensive stock of a wide range of sizes
- Suitable for single-use applications



# PUMPSIL TUBING

## Pure platinum-cured silicone tubing

Pumpsil is widely used for single-use biopharm applications, as well as pH control and media feed in fermentation, accurate metering, transfer and filtration.

As well as continuous tubing, cut lengths and bulk reels, LoadSure elements operating up to 2bar are also available.

Pumpsil	Characteristics
Material	Platinum-cured silicone
Colour/transparency	Translucent
Spallation	Low
Life/hours	313/314 pumpheads - 230 520R pumpheads - 200 620R pumpheads - 230
Certification	USP Class VI and Eur.Ph. 3.1.9 FDA 21CFR177.2600 and EC1935/2004 food contact compliant
Sterilisation methods	Gamma, autoclave, EtO
Operating temperature	-20C to 80C
Hardness, shore A (5sec)	60
Specific gravity	1.16
Tear B, ppi	200-500
Ultimate tensile strength psi	1306
Elongation at break %	550 - 1500
Tensile stress at 100% elongation, psi	118
Compression set, %	5 - 42.5
UV resistance	Excellent
Gas permeability rating O <sub>2</sub> cc.cm x 10 <sup>-8</sup> /cm <sup>2</sup> sec.atm	400
Gas permeability rating	Low
Water absorption	Low

Tube ordering codes						
Bore		Wall		Coil size		
mm	inch	mm	inch	15m/50ft	5m/16ft	152m/500ft
0.5	1/50	1.6	1/16	913.A005.016	913.AJ05.016	913.B005.R16
0.8	1/32	1.6	1/16	913.A008.016	913.AJ08.016	913.B008.R16
1.2	3/64	1.6	1/16	913.A012.016	913.AJ12.016	913.B012.R16
1.6	3/32	1.6	1/16	913.A016.016	913.AJ16.016	913.B016.R16
2.4	1/16	1.6	1/16	913.A024.016	913.AJ24.016	913.B024.R16
3.2	1/8	1.6	1/16	913.A032.016	913.AJ32.016	913.B032.R16
4.8	3/16	1.6	1/16	913.A048.016	913.AJ48.016	913.B048.R16
6.4	1/4	1.6	1/16	913.A064.016	913.AJ64.016	913.B064.R16
						122m/400ft
8.0	5/16	1.6	1/16	913.A080.016	913.AJ80.016	913.B080.R16
						152m/500ft
0.5	1/50	2.4	3/32	913.A005.024	913.AJ05.024	913.B005.R24
0.8	1/32	2.4	3/32	913.A008.024	913.AJ08.024	913.B008.R24
1.6	1/16	2.4	3/32	913.A016.024	913.AJ16.024	913.B016.R24
3.2	1/8	2.4	3/32	913.A032.024	913.AJ32.024	913.B032.R24
						122m/400ft
4.8	3/16	2.4	3/32	913.A048.024	913.AJ48.024	913.B048.R24
						91m/300ft
6.4	1/4	2.4	3/32	913.A064.024	913.AJ64.024	913.B064.R24
						61m/200ft
8.0	5/16	2.4	3/32	913.A080.024	913.AJ80.024	913.B080.R24
						46m/150ft
9.6	3/8	2.4	3/32	913.A096.024	913.AJ96.024	913.B096.R24
					3m/10ft	91m/300ft
4.8	3/16	3.2	1/8	913.A048.032	913.A048.I32	913.B048.R32
						61m/200ft
6.4	1/4	3.2	1/8	913.A064.032	913.A064.I32	913.B064.R32
						46m/150ft
9.6	3/8	3.2	1/8	913.A096.032	913.A096.I32	913.B096.R32
						30m/100ft
12.7	1/2	3.2	1/8	913.A127.032	913.A127.I32	913.B127.R32
15.9	5/8	3.2	1/8	913.A159.032	913.A159.I32	-
8.0	5/16	4.0	-	913.A080.040	913.A080.I40	-
12.0	-	4.0	-	913.A120.040	913.A120.I40	-
16.0	-	4.0	-	913.A160.040	913.A160.I40	-
9.6	3/8	4.8	3/16	913.A096.048	913.A096.I48	-
12.7	1/2	4.8	3/16	913.A127.048	913.A127.I48	-
15.9	5/8	4.8	3/16	913.A159.048	913.A159.I48	-
19.0	3/4	4.8	3/16	913.A190.048	913.A190.I48	-
25.4	1	4.8	3/16	913.A254.048	913.A254.I48	-

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B, Ultimate tensile strength, Elongation at break, Tensile stress at 100% elongation; ASTM D 412

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Please state the product code when ordering pumps and tubing.

**WATSON  
MARLOW  
Tubing**

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