

PUMPSIL® TUBING

Post-cured platinum silicone tubing

... for additional protection from contamination during the pumping process

Post-cured for purity

Developed for the biopharmaceutical industry, Pumpsil offers an ultra-smooth bore which helps minimise protein binding and ensure high purity in the finished product. Pumpsil is fully post-cured, a process which removes cytotoxic cyclic siloxanes and other volatile process aids, resulting in an exceptionally pure tube.

Accurate for longer

Another major benefit of post-curing is increased cross-linking between molecules. These tighter molecular bonds maximize resistance to flexing stress. The tubing fatigues more slowly.

It retains its original shape for longer and dispensed volumes remain accurate for longer



When purity is your business, you demand it from your suppliers. Its purity is why post-cured Watson-Marlow Pumpsil leads the way in silicone pump tubing

- Ultra-smooth bore to control protein binding and bacterial growth. Tight surface cure. Non-tacky surface
- Fully documented bio-compatibility 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
- Excellent general chemical resistance and life
- Suitable for use in disposable applications
- USP Class VI validation

Watson-Marlow Pumpsil: high-purity tubing to give you confidence in your sterile process

Pumpsil platinum-cured tubing is more than just a commodity

When purity is your business

Pumpsil is widely used for single use and disposable filling applications, handling, dispensing, metering, transfer and filtration of pharmaceuticals, pH control and media feed in fermentation and bioreactors, and manufacturing processes using fluids, such as metering sterilizing fluids on to bandages.

First choice dispensing tube for superior dispensing accuracy. Bottle and vial filling applications. Disposable dispensing systems.

Pumpsil	Typical values
Material	Platinum-cured silicone
Colour / transparency	Translucent
Spallation	Good
Life, hours	313/314 pumpheads, 230; 520R pumpheads: 200; 620R pumpheads: 230
Certification	USP Class VI, FDA regulations 21 CFR 177.2600 for contact with aqueous food. ISO 10993-1, USDA and 3A approved
Sterilisation methods	Gamma, autoclave, EtO
Operating temperature	-20C-80C
Hardness, shore A (5 sec)	60
Specific gravity	1.16
Tear B, ppi	279
Ultimate tensile strength, psi	1306
Elongation at break, %	861
Tensile stress at 100% elongation, psi	118
Compression set, %	18
Weather resistance	Excellent
Sunlight resistance	Excellent
Gas permeability, O ₂ cc.cm x 10 ⁻² / cm ² .sec.atm	400
Gas permeability rating	Poor
Water absorption	Good
Odour	Excellent
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

Bore	Wall	Coil size	Part number	Coil size	Part number	Coil size	Part number
inch	mm	inch	mm				
1/50	0.5	1/16	1.6	50ft / 15m	913.A005.016	913.AJ05.016	913.B005.R16
1/32	0.8	1/16	1.6		913.A008.016	913.AJ08.016	913.B008.R16
3/64	1.2	1/16	1.6		913.A012.016	913.AJ12.016	913.B012.R16
1/16	1.6	1/16	1.6		913.A016.016	913.AJ16.016	913.B016.R16
3/32	2.4	1/16	1.6		913.A024.016	913.AJ24.016	913.B024.R16
1/8	3.2	1/16	1.6		913.A032.016	913.AJ32.016	913.B032.R16
3/16	4.8	1/16	1.6		913.A048.016	913.AJ48.016	913.B048.R16
1/4	6.4	1/16	1.6		913.A064.016	913.AJ64.016	913.B064.R16
5/16	8.0	1/16	1.6		913.A080.016	913.AJ80.016	913.B080.R16
1/50	0.5	3/32	2.4		913.A005.024	913.AJ05.024	913.B005.R24
1/32	0.8	3/32	2.4	50ft / 15m	913.A008.024	913.AJ08.024	913.B008.R24
1/16	1.6	3/32	2.4		913.A016.024	913.AJ16.024	913.B016.R24
1/8	3.2	3/32	2.4		913.A032.024	913.AJ32.024	913.B032.R24
3/16	4.8	3/32	2.4		913.A048.024	913.AJ48.024	913.B048.R24
1/4	6.4	3/32	2.4		913.A064.024	913.AJ64.024	913.B064.R24
5/16	8.0	3/32	2.4		913.A080.024	913.AJ80.024	913.B080.R24
3/8	9.6	3/32	2.4		913.A096.024	913.AJ96.024	913.B096.R24
1/2	12.7	1/8	3.2		913.A048.032	913.A048.I32	913.B048.R32
3/4	19.0	1/8	3.2		913.A064.032	913.A064.I32	913.B064.R32
1	25.4	1/8	3.2		913.A096.032	913.A096.I32	913.B096.R32
1 1/2	38.1	1/4	6.4	10ft / 3m	913.A127.032	913.A127.I32	913.B127.R32
2	50.8	1/4	6.4		913.A159.032	913.A159.I32	Custom sizes are available to order, as are other specific requirements
2 1/2	63.5	1/4	6.4		913.A190.048	913.A190.I48	
3	76.2	1/4	6.4		913.A254.048	913.A254.I48	
3 1/2	88.9	3/8	9.6		913.A080.040	913.A080.I40	
4	101.6	3/8	9.6		913.A120.040	913.A120.I40	
4 1/2	114.3	3/8	9.6		913.A160.040	913.A160.I40	
5	127.0	3/8	9.6		913.A096.048	913.A096.I48	
5 1/2	140.0	1/2	12.7		913.A127.048	913.A127.I48	
6	152.4	1/2	12.7		913.A159.048	913.A159.I48	
6 1/2	165.1	1/2	12.7		913.A190.048	913.A190.I48	

Pumpsil for purity

The Watson-Marlow Pumps Group has direct operations in 16 countries:

United States | Mexico | Belgium | Brazil | China | Denmark | France | Germany | Italy | Korea | Malaysia | Netherlands | South Africa | Sweden | Switzerland | United Kingdom

Distributors in over 50 countries. For local contact information please visit:

www.watson-marlow.com

The information contained in this document is believed to be correct, but Watson-Marlow accepts no liability for any errors it contains and reserves the right to, alter specifications without notice.

WARNING These products are not designed for use in and should not be used for, patient connected applications.

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