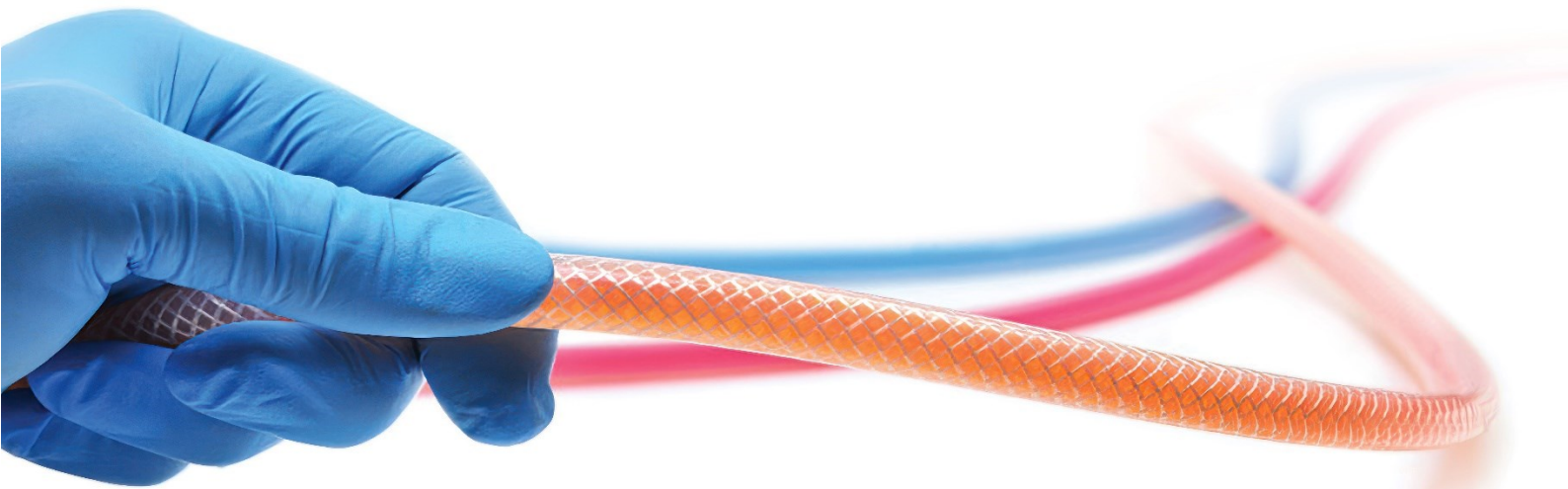




# Biopharmaceutical Single-Use Technology

Tubing and tubing integrated systems





## Focus on the advanced material technology & manufacture in Life Science:

Rely on more than 20 years of experience in **the advanced material technology** & manufacture, focus on the development and manufacturing of disposable high-performance tubing and disposable tubing integrated system products, we do commit to meet the high-quality needs of the critical fluid transmission and fluid management in biopharmaceutical industry.

## Implements ISO 9001 & ISO 13485 Quality Management System:

Locate in Building 4, Sapphire Park, Lingang New Area, Shanghai, China, 3200 square meters factory building in the first phase, and strictly implement the **ISO 9001 & ISO 13485** quality management system, all biopharmaceutical grade products are manufactured in the 10K Class level clean room.



**Key Markets:** Vaccine、Biosimilar、Antibody drug、Plasma、CGT



Sampling, Split Charging, Transferring, Pumping, Loading, SIP, CIP, Cell culture, fermentation, Chromatography, Filtration, Final Filling, Aseptic Sealing, Aseptic Welding • • • • •

## MedFlex® 360 Biopharmaceutical TPE Weldable tubing -AES

- **Well Sealing & Welding**, excellent internal surface smoothness
- Widely used in liquid storage bags, mixing bags & bioreactors
- Good cross-welding adaptability with C-Flex & AdvantaFlex TPE tubing
- Steam sterilization, electron gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ USP 85,87,88,381,643 &661
  - ✓ ISO10993-3, 5, 10 &11
  - ✓ European Pharmacopeia 3.2.9
  - ✓ Extractables report base on FDA & BPOG standards



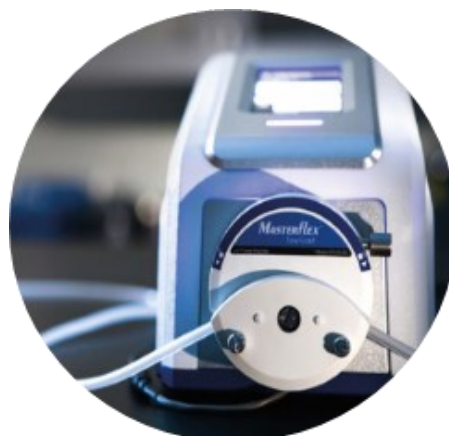
## MedFlex® SIL150 Biopharmaceutical platinum silicone tubing-AST

- Good Peristaltic pump performance, pump life reach 60 hr@600RPM
- High-temperature resistance, online steam sterilization SIP & CIP
- Used for **bioreactors**, **cell culture**, **filtration**, **sampling** and filling
- Steam sterilization, electron gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ USP 85,87,88,381 & 661
  - ✓ ISO10993-3, 5, 10 &11
  - ✓ European Pharmacopeia 3.1.9
  - ✓ Extractables report base on FDA & BPOG standards



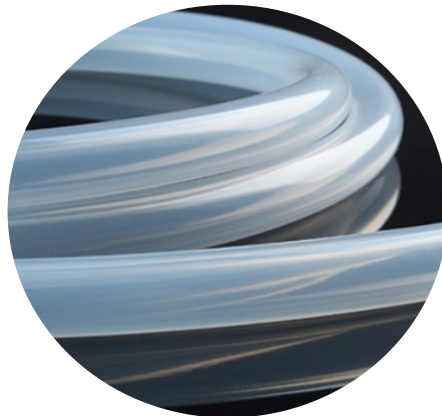
## MedFlex® SIL250 High Purity Biopharmaceutical Pt silicone tubing -ASL

- Designed for **downstream** and **final filling** of biopharmaceutical.
- Extremely low material dissolution ensures fluid high purity.
- Steam sterilization, electron gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ USP 85,87,88,381 & 661
  - ✓ ISO10993-3, 5, 10 &11
  - ✓ European Pharmacopeia 3.1.9
  - ✓ Extractables report base on FDA & BPOG standards



### MedFlex® SIL050 Biomedical sanitary grade Pt silicone tubing-ASC

- Designed for **long pump life application** up to 150hrs@600RPM
- Steam sterilization, gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ ISO10993
  - ✓ USP 85, 88,151&788
  - ✓ Extractables report base on FDA & BPOG standards



### MedFlex® SIL170 Biopharmaceutical Pt silicone pressure tubing-ASH

- Designed for SIP and CIP pressure resistant steam sterilization.
- General **working pressure to 4bar**, Max burst pressure to 12bar
- NO wire design and No Particles residue when cutting.
- Steam sterilization, gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ ISO10993
  - ✓ USP 85, 88,151&788
  - ✓ Extractables report base on FDA & BPOG standards



### MedFlex® SIL170HP Biopharmaceutical Pt silicone braided tubing-ASH-R

- Designed for SIP and CIP pressure resistant steam sterilization.
- General **working pressure to 10bar**, Max burst pressure to 20bar
- Steam sterilization, gamma irradiation sterilization & ETO
- ADCF materials formula and & full regulation documents
  - ✓ ISO10993
  - ✓ USP 85, 88,151&788
  - ✓ Extractables report base on FDA & BPOG standards





## Medloop® Biopharmaceutical platinum silicone molded manifolds

- Developed for **zero leakage** risk applications in downstream biopharmaceutical
- Unique inner channel design effectively reduce fluid & particles residual
- Molded design replacing cable ties greatly reduce risk of leakage
- Steam sterilization, electron gamma irradiation sterilization & ETO
- ADCF materials formula and full regulation documents
  - ✓ USP 85,87,88,381 & 661
  - ✓ ISO10993-3, 5, 10 & 11
  - ✓ European Pharmacopeia 3.1.9
  - ✓ Extractables report base on FDA & BPOG standards



## MedFlex® SIL250 Light avoidance Pt silicone tubing -ASL BK

- Designed for the application of **light sensitive fluid processing**.
- The inner layer ensures the medicine is clean and pollution-free
- Outer layer coextrusion technology without material layering
- ADCF materials formula and full regulation documents
  - ✓ USP 85,87,88,381 & 661
  - ✓ ISO10993-3, 5, 10 & 11
  - ✓ European Pharmacopeia 3.1.9
  - ✓ Extractables report base on FDA & BPOG standards



## MedFlex® 365 Sanitary grade ultra long-life rubber tubing -AYL

- **Ultra Long peristaltic pump life** up to 1000hrs@600RPM
- Better chemical resistance than silicone and TPE materials
- Steam sterilization, gamma irradiation sterilization & ETO
- ADCF materials formula and full regulation documents
  - ✓ ISO10993
  - ✓ USP 85, 88,151&788
  - ✓ Extractables report base on FDA & BPOG standards



## MedFlex® Item Size List

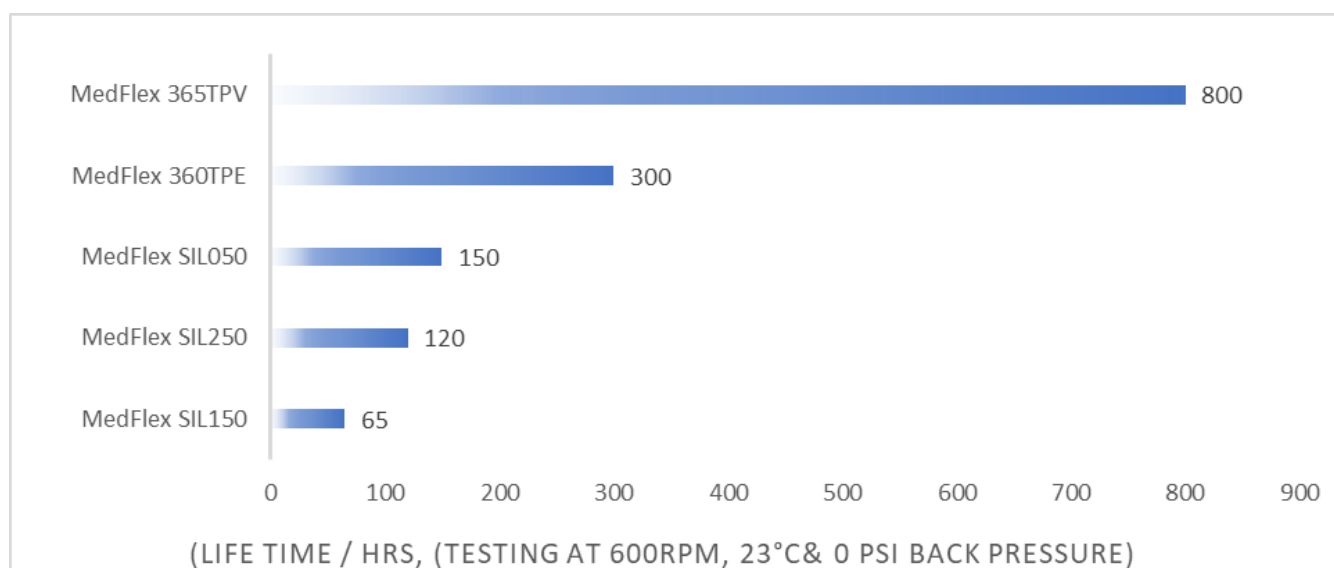
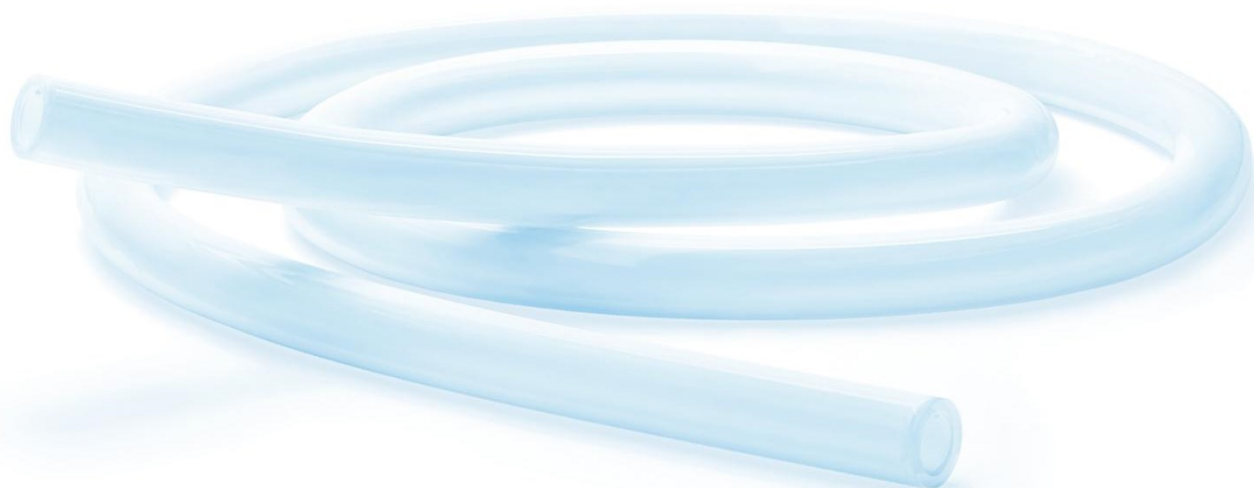
Part No.	I.D. /inch	I.D. /mm	O.D./inch	O.D./mm	Wall/inch	Wall/mm	Length/meter	Metrc NO.
AES-0031-0094	1/32	0.79	3/32	2.38	1/32	0.79	15 & 30	
AES-0063-0125	1/16	1.59	1/8	3.18	1/32	0.79	15 & 30	
AES-0063-0188	1/16	1.59	3/16	4.76	1/16	1.59	15 & 30	14#
AES-0094-0156	3/32	2.38	5/32	3.97	1/32	0.79	15 & 30	
AES-0094-0219	3/32	2.38	7/32	5.56	1/16	1.59	15 & 30	19#
AES-0125-0188	1/8	3.18	3/16	4.76	1/32	0.79	15 & 30	
AES-0125-0250	1/8	3.18	1/4	6.35	1/16	1.59	15 & 30	16#
AES-0125-0375	1/8	3.18	3/8	9.53	1/8	3.18	15 & 30	
AES-0156-0219	5/32	3.97	7/32	5.56	1/32	0.79	15 & 30	
AES-0188-0250	3/16	4.76	1/4	6.35	1/32	0.79	15 & 30	
AES-0188-0313	3/16	4.76	5/16	7.94	1/16	1.59	15 & 30	25#
AES-0188-0375	3/16	4.76	3/8	9.53	3/32	2.38	15 & 30	15#
AES-0188-0438	3/16	4.76	7/16	11.11	1/8	3.18	15 & 30	
AES-0250-0313	1/4	6.35	5/16	7.94	1/32	0.79	15 & 30	
AES-0250-0375	1/4	6.35	3/8	9.53	1/16	1.59	15 & 30	17#
AES-0250-0438	1/4	6.35	7/16	11.11	3/32	2.38	15 & 30	24#
AES-0250-0500	1/4	6.35	1/2	12.70	1/8	3.18	15 & 30	26#
AES-0313-0438	5/16	7.94	7/16	11.11	1/16	1.59	15 & 30	18#
AES-0313-0500	5/16	7.94	1/2	12.70	3/32	2.38	15 & 30	35#
AES-0375-0500	3/8	9.53	1/2	12.70	1/16	1.59	15 & 30	
AES-0375-0563	3/8	9.53	9/16	14.29	3/32	2.38	15 & 30	36#
AES-0375-0625	3/8	9.53	5/8	15.88	1/8	3.18	15 & 30	73#
AES-0438-0563	7/16	11.11	9/16	14.29	1/16	1.59	15 & 30	
AES-0438-0625	7/16	11.11	5/8	15.88	3/32	2.38	15 & 30	
AES-0500-0625	1/2	12.70	5/8	15.88	1/16	1.59	15	
AES-0500-0688	1/2	12.70	11/16	17.46	3/32	2.38	15	
AES-0500-0750	1/2	12.70	3/4	19.05	1/8	3.18	15	82#
AES-0625-0813	5/8	15.88	13/16	20.64	3/32	2.38	15	
AES-0625-0875	5/8	15.88	7/8	22.23	1/8	3.18	15	
AES-0750-1000	3/4	19.05	1	25.40	1/8	3.18	15	90#
AES-1000-1125	1	25.40	1 1/8	28.58	1/16	1.59	15	

Item size rule description: AES-0125-0250 or AES-0125-0250L

1. AES is the MedFlex® product formula series, 0125 is ID ,0250 is OD of tubing.
2. AES is MedFlex® 360 TPE weldable tubing; AST is MedFlex SIL150 Pt Si tubing, ASL is SIL250, ASC IS SIL050.
3. Without Suffix means 15 meters length per package; Suffix L means 30 meters length, Suffix S means 7.5 meters length.

# MedFlex®

High quality tubing for Bioprocessing



Comments: Pump tests conducted used Cole Parmer Masterflex® 17 standard pump heads using MedFlex® ID0.25" x OD0.375" tubing, run continuously at 600 rpm to failure with zero back pressure and water as a medium.

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**Medloop®**

Dedicate for Life Science Materials