



## MedFlex® SIL170

# Biopharmaceutical platinum cured silicone pressure resistant tubing

### Characteristic description:

MedFlex® SIL170 platinum cured silicone pressure hose developed specifically for high temperature & middle pressure application in the biopharmaceutical. Its excellent internal surface smoothness can inhibit protein binding and bacterial growth. And it is convenient for sterilization and aseptic processing.

MedFlex® SIL170 can endure the SIP & CIP repeatedly, suitable for durable use, and the design without wire reinforcement, having better flexibility and durability, it is good for middle pressure resistant around 4bar/60PSI, especially for using in chromatography system, such as TFF, VF.

MedFlex® SIL170 products sold is produced and packaged in a 10K class level clean room environment of ISO10993 & ISO13485 quality systems controls, comprehensive batch control is implemented from raw material receipt to finished products delivery.

### Material properties:

Main properties	Testing methods	Value
Hardness Value (SHA)	D2240	74
Tensile strength, PSI (MPa)	D412	1250 (8.5)
Ultimate elongation, %	D412	350
Gravity	D792	1.20
Tear strength, lb-f/in (kN/m)	D624	185 (32)
Color	-	translucent

### Key properties:

- Extreme low Smell & taste of Silica
- Excellent flexible & bending radius
- Endure temp from -62 to 240 degree C
- Manufactured in 10K Class clean room
- Endure the SIP & CIP repeatedly
- NO wire reinforcement
- NO recommendation for pump tubing

### Typical applications:

- Middle pressure transmission
- Steam sterilization
- Chromatography clarification
- Sanitary joint
- Biopharmaceutical

### Regulations:

- Rohs & Reach
- FDA 21 CFR 177.2600
- USP Class VI

### Sterilization method:

- Steam sterilization 134°C@60 mins
- Electron irradiation 25 to 50 kGy
- ETO



## MedFlex® SIL170 Items Size List

Part No.	I.D. /inch	I.D. /mm	O.D. /inch	O.D. /mm	Wall /inch	Wall /mm	Length /meter	Length /meter	Work pressure at Room Temp/bar	Burst pressure at Room Temp/bar
ASH-0125-0250	1/8	3.18	1/4	6.35	1/16	1.59	15	16#	5.0	15.0
ASH-0250-0375	1/4	6.35	3/8	9.53	1/16	1.59	15	17#	2.5	7.5
ASH-0250-0438	1/4	6.35	7/16	11.11	3/32	2.38	15	24#	4.0	12.0
ASH-0375-0625	3/8	9.53	5/8	15.88	1/8	3.18	15	73#	4.5	13.5
ASH-0500-0750	1/2	12.70	3/4	19.05	1/8	3.18	15	82#	3.0	9.0
ASH-0750-1000	3/4	19.05	1	25.40	1/8	3.18	15		2.5	7.5
ASH-1000-1250	1	25.40	1 1/4	31.75	1/8	3.18	15		2.5	7.5

Notes: at room temperature, the rate between its working pressure and blasting pressure is roughly 1:3.



NOTE: This document is intended to provide information about the product and possible applications, this document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Medloop cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application. MedFlex® is a trademark of Shanghai Medloop Material Technology Co, Ltd