



## MedFlex® SIL170HP

# Biopharmaceutical platinum cured silicone pressure resistant braided hose

### Characteristic description:

MedFlex® SIL170HP platinum cured silicone pressure hose developed specifically for high temperature & high pressure applications 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® SIL170HP can endure the SIP & CIP easily, suitable for durable use, its good flexible, chemical compatible, high temperature resistance & high pressure resistant.

MedFlex® SIL170HP 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	72
Tensile strength, PSI (MPa)	D412	1150 (8)
Ultimate elongation, %	D412	450
Gravity	D792	1.18
Tear strength, lb-f/in (kN/m)	D624	200 (35)
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 easily
- Wire reinforcement withstands high pressure

### Typical applications:

- High pressure transmission
- High 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® SIL170HP Items Size List

Part No.	I.D. /inch	I.D. /mm	O.D. /inch	O.D. /mm	Wall /inch	Wall /mm	Length /meter	Work pressure at Room Temp/ psi	Burst pressure at Room Temp/psi
ASH-R-0250-0500	0.250	6.35	0.500	12.70	0.125	3.18	15	165	600
ASH-R-0375-0625	0.375	9.53	0.625	15.88	0.125	3.18	15	150	650
ASH-R-0500-0875	0.500	12.70	0.875	22.23	0.188	4.76	15	140	500
ASH-R-0750-1125	0.750	19.05	1.125	28.58	0.188	4.76	15	100	350
ASH-R-1000-1375	1.000	25.40	1.375	34.93	0.188	4.76	15	65	225

Notes: at room temperature, the rate between its working pressure and blasting pressure is roughly 1:4, and when the temperature reaches around 200 °C, the working pressure will decrease by about 10%-20%.



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