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## APPLICATION

- Multipurpose hose designed to ensure utmost purity during transport of pharmaceutical, cosmetic, food and chemical products in aseptic areas.
- Specifically engineered to combine the technical benefits of a perfluoropolymer with the elasticity and heat resistance of silicone.

## CONSTRUCTION

### TUBE

- PFA (Perfluoroalkoxy), fully fluorinated, white colour, mirror-smooth. Odourless and tasteless.
- Excellent flex-performance (resistance to repeated bending cycles in accordance with ASTM D 2176).
- Compliance: USP Class VI, 3-A Sanitary Standards n.20-27, FDA Standards, D.M. 21/03/73 and following amendments, Regulation EU n. 10/2011, ISO 10993-4, -10, -11, non-cytotoxic according to ISO 10993-Part 5, ICH Q3D.

### REINFORCEMENTS

- High strength plies of synthetic cord
- Embedded stainless steel helix wire.

### COVER

- Translucent silicone rubber (code: silicone 3362PT), ultra smooth and glossy finish.
- It may be easily cleaned with any mild detergent.
- Special finish with a low coefficient of friction.
- Compliance: USP Class VI, 3-A Sanitary Standards 18-03-Class I, FDA Standards, BfR, European Pharmacopoeia 3.1.9, ISO 10993-4, -10, -11, non-cytotoxic according to ISO 10993-Part 5.

## PATENT

- E.P. 1450092.

## MAIN BENEFITS

- Platinum-cured silicone cover with non-stick properties.
- Fluorinated, ultra-smooth inert liner, embedded into a high purity structure.
- Made in Cleanroom ISO 14644-1 Class 8.
- High flexibility, even under high and low temperature conditions, and excellent resistance of the structure to dynamic stress.
- Hose in accordance with EC 1935/2004 and 2023/2006/EC (GMP).
- The MTG production cycle does not employ animal derived ingredients, phthalates, adipates, nitrosamines, and materials subject to restrictions acc. to EC 1907/2006 (REACH).

## SAFETY FACTOR

- ≥ 3 times working pressure.

## TEMPERATURE RANGE

- From -30°C to +150°C depending on the fluids conveyed.

## STERILIZATION

- Sterilization with steam up to +135°C at 3.5 bar for max. 30 minutes.

## NOTE

- We suggest you to follow the instructions mentioned in the MTG "Use and maintenance guide for PFA/MFA hoses".

## MARKING



## TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: ± 0.8 mm - Length: ISO 1307

| Inner Diameter mm | Outer diameter mm | Wall thickness mm | Working pressure BAR | Burst pressure BAR | Vacuum BAR | Min. bending radius (Static) mm | Min. bending radius (Dynamic) mm | Approx. weight kg/m | Max. length m |
|-------------------|-------------------|-------------------|----------------------|--------------------|------------|---------------------------------|----------------------------------|---------------------|---------------|
| 10                | 22                | 6.0               | 10                   | 30                 | -0.9       | 35                              | 50                               | 0.36                | 20            |
| 13                | 25                | 6.0               | 10                   | 30                 | -0.9       | 45                              | 60                               | 0.42                | 20            |
| 16                | 28                | 6.0               | 10                   | 30                 | -0.9       | 55                              | 75                               | 0.57                | 20            |
| 19                | 31                | 6.0               | 10                   | 30                 | -0.9       | 65                              | 90                               | 0.65                | 30            |
| 25                | 37                | 6.0               | 10                   | 30                 | -0.9       | 85                              | 140                              | 0.80                | 30            |
| 32                | 44                | 6.0               | 10                   | 30                 | -0.9       | 120                             | 200                              | 1.00                | 30            |
| 38                | 51                | 6.5               | 10                   | 30                 | -0.9       | 140                             | 250                              | 1.27                | 30            |
| 51                | 67                | 8.0               | 10                   | 30                 | -0.9       | 180                             | 300                              | 1.98                | 30            |
| 63.5              | 79.5              | 8.0               | 5                    | 15                 | -0.9       | 320                             | 380                              | 2.53                | 20            |
| 76                | 92                | 8.0               | 5                    | 15                 | -0.9       | 380                             | 460                              | 3.62                | 20            |
| 100               | 118               | 9.0               | 3                    | 9                  | -0.9       | 500                             | 600                              | 5.02                | 20            |

Above technical data are referring to application at room temperature (+20°C). Chemical resistance according to MTG Chemical Resistance Chart. Other sizes are available upon request. Please contact our Sales Department.



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