

MANIFATTURA TUBI GOMMA S.p.A.

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APPLICATION

- Multipurpose hose "Full Ohm", designed for conveying cosmetic, pharmaceutical and highly flammable chemical products in working areas requiring utmost safety.
- Execution complying with EN 12115: 2011.
- Engineered to ensure dissipation of electrostatic charges not only on the surfaces (tube and cover $R < 10^6 \Omega$) but also through the hose wall ($R < 10^9 \Omega$).

CONSTRUCTION

TUBE

- PFA (Perfluoroalkoxy), fully fluorinated, mirror-smooth, black colour, antistatic ($R < 10^6 \Omega$), patented.
- Compliance: USP Class VI, FDA Standards, Regulation EU n. 10/2011, ISO 10993-4, -10, -11, non-cytotoxic according to ISO 10993-Part 5.

REINFORCEMENT

- High-strength plies of synthetic cord and embedded steel helix wire.
- Copper wires on request.

COVER

- Marble finish (UPE), black and white, patented, smooth; resistant to abrasion, ozone and ageing. The special marble finish with a low coefficient of friction complies with FDA Standards, odourless and tasteless.
- The cover does not stain the contact surfaces.
- Antistatic: Electrical resistance $R < 10^6 \Omega$.

PATENTS

- E.P. 1450092, E.P. 1580475.
- U.S. Patent 7,389,799.

SAFETY FACTOR

- ≥ 4 times working pressure.

MAIN BENEFITS

- The fluorinated inner liner ensures utmost chemical and temperature resistance, an excellent impermeability, and absolutely contamination-free transport of the fluid conveyed.
- Marble finish cover, smooth and easy to clean. Resistant to mild chemicals and aggressive acids for short time.
- Hose in accordance with EC 1935/2004 and 2023/2006/EC (GMP).
- The MTG production cycle is free from animal derived ingredients, phthalates, adipates, and materials subject to restrictions acc. to EC 1907/2006 (REACH).
- Non-plasticized inner tube.

TEMPERATURE RANGE

- In accordance with EN 12115: 2011.

ELECTRICAL PROPERTIES

- Electrical resistance through the hose wall: $R < 10^9 \Omega$.
- Identification symbol:
 - Ω/T for version without copper wires;
 - M/T for version with copper wires.

NOTE

- Please check recommendations and instructions mentioned in the MTG "use and maintenance guideline for PFA/MFA hoses".
- Not autoclavable.

MARKING

- Embossed tape according to EN 12115: 2011, lengthwise.



TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: EN 12115 - Wall thickness: EN 12115 - 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
13	25	6.0	10	40	-0.9	135	-	0.55	20
19	31	6.0	10	40	-0.9	188	-	0.72	30
25	37	6.0	10	40	-0.9	225	-	0.89	30
32	45	6.5	10	40	-0.9	262	-	1.16	30
38	51	6.5	10	40	-0.9	338	-	1.47	30
51	65.5	7.25	10	40	-0.9	412	-	2.08	30
63.5	79.5	8.0	10	40	-0.9	450	-	2.80	20
76	92	8.0	10	40	-0.9	525	-	3.48	20
100	117	8.5	10	40	-0.9	700	-	4.70	20

(*) In case of dynamic application please contact our Technical Dept.
Above technical data are referring to application at room temperature (+20°C). Other sizes and colours are available upon request. Please contact our Sales Department.



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