



STEEL MILL HOSES

MANIFATTURA TUBI GOMMA S.p.A.

Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com



APPLICATION

- Dielectric rubber hose, designed for delivery of industrial cooling water and acid or alkaline solutions in low concentration.
- Specifically engineered for applications where electric insulation is required.
- Normally used in foundries, glass industries, steel mills, frequency converters and electrical transformers.

CONSTRUCTION

TUBE

- Synthetic rubber, grey colour, highly impermeable, smooth.
- Dielectric strength ≥ 8000 V/mm.
- Electrical properties: Electrical Resistance $R > 10^9$ Ohm.

REINFORCEMENT

- High strength plies of synthetic cord.

COVER

- Dielectric synthetic rubber, blue colour, abrasion, ozone and weather resistant, cloth finish.
- Alternative: CR rubber, black colour, insulating (≥ 4000 V/mm), self-extinguishing according to ASTM C 542, (our ref. CORD/GREY-660/46N).

MARKING

- On demand.

TEMPERATURE RANGE

- From -40°C to $+100^{\circ}\text{C}$, peaks up to $+120^{\circ}\text{C}$.

SAFETY FACTOR

- ≥ 3 times working pressure.

FITTING

- By means of clamps, collars, crimping or other systems required by the equipment manufacturers.

TECHNICAL SPECIFICATIONS

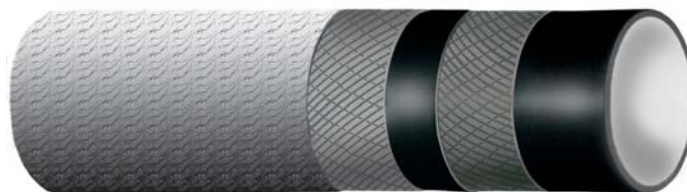
SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius mm	Approx. weight kg/m	Max. length m
8	17	4.5	15	45	-	45	0.21	40
10	19	4.5	15	45	-	60	0.25	40
12	21	4.5	15	45	-	70	0.29	40
13	23	5.0	15	45	-	75	0.33	40
14	24	5.0	15	45	-	80	0.36	40
15	25	5.0	15	45	-	90	0.37	40
18	28	5.0	15	45	-	120	0.43	40
19	28	4.5	15	45	-	160	0.40	40
19	30	5.5	15	45	-	120	0.52	40
20	28	4.0	15	45	-	160	0.38	40
20	31	5.5	15	45	-	120	0.54	40
25	34	4.5	15	45	-	200	0.50	40
25	36	5.5	15	45	-	150	0.64	40
28	38	5.0	15	45	-	230	0.64	40
28	40	6.0	15	45	-	180	0.78	40
30	42	6.0	15	45	-	240	0.82	40
32	44	6.0	15	45	-	260	0.86	40
35	49	7.0	15	45	-	280	1.10	40
40	54	7.0	15	45	-	300	1.20	40
45	60	7.5	15	45	-	340	1.45	40
50	66	8.0	15	45	-	350	1.80	40
60	78	9.0	15	45	-	480	2.40	40

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.

Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com



APPLICATION

- Dielectric rubber hose specifically designed for the delivery of cooling water in electrical transformers and frequency converters.
- Normally used in steel mills and generally in the steel sector.
- Delivery hose.

CONSTRUCTION

TUBE

- EPDM rubber, light colour, smooth.
- Dielectric: Dielectric strength ≥ 5000 V/mm.

REINFORCEMENT

- High resistance textile plies.

COVER

- EPDM rubber, clear colour, abrasion and ozone resistant, covered with vulcanised glass fiber.

MAIN BENEFITS

- The special glass fiber coating protects the structure from splashes of glowing material and radiation heat up to peaks of approx. +400°C.

TEMPERATURE RANGE

- From -35° to +120°C depending on fluids conveyed.

SAFETY FACTOR

- ≥ 3 times working pressure.

FITTING

- With pressed-in couplings, safety clamps, collars or other systems required by equipment manufacturers.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: On demand - Length: ISO 1307

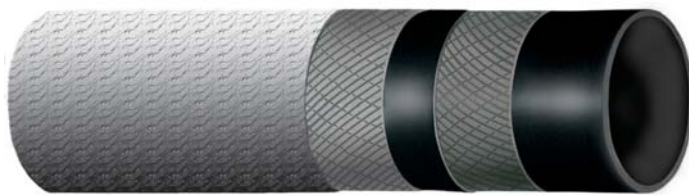
Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius mm	Approx. weight kg/m	Max. length m
13	25	6.0	20	60	-	65*	0.44	40
19	32	6.5	20	60	-	95*	0.62	40
25	39	7.0	20	60	-	125*	0.78	40
32	48	8.0	20	60	-	160*	1.05	40
38	55	8.5	20	60	-	190*	1.28	40
50	68	9.0	20	60	-	250*	1.78	40
60	80	10.0	20	60	-	300*	2.50	40
75	95	10.0	20	60	-	380*	2.90	40
80	100	10.0	20	60	-	400*	3.15	40
100	124	12.0	20	60	-	500*	4.90	40

(*) Values at a working pressure > 3 bar.

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.

Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com



APPLICATION

- Dielectric rubber hose specifically engineered for the protection and demineralised water cooling of electrical feeder cables for industrial furnaces.
- Normally used in foundries, steel mills and glass industry.
- Dielectric strength ≥ 5000 V/mm.

CONSTRUCTION

TUBE

- NR rubber, black colour, abrasion resistant, smooth.
- Insulating (Electrical resistance $R > 10^{11}$ Ohm).

REINFORCEMENT

- High resistance synthetic textile plies.

COVER

- CR dielectric rubber, black colour, smooth, self-extinguishing to ASTM C 542, covered with vulcanised glass fiber, clear colour.

ALTERNATIVE VERSIONS

MANICABLE/5046

- Without glass fiber, with smooth CR dielectric rubber cover (cloth finish), resistant to ozone, weather and mineral oils contact, self-extinguishing acc. to ASTM C 542.

MANICABLE/10-FV/46

- With built-in vulcanised glass fiber, covered with smooth CR dielectric rubber, black colour, resistant to ozone, weather and mineral oils contact, self-extinguishing acc. to ASTM C 542.

MAIN BENEFITS

- Self-extinguishing cover according to ASTM C 542.
- The glass fiber cover protects the rubber hose from splashes of incandescent material and radiation heat up to a maximum of +500°C.

MARKING

- On demand.

TEMPERATURE RANGE

- From -40° up to +90°C.

SAFETY FACTOR

- ≥ 3 times working pressure.

FITTING

- By means of clamps, collars, crimping or other systems required by the equipment manufacturers.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: on demand - Length: ISO 1307

Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius mm	Approx. weight kg/m	Max. length m
19	32	6.5	10	30	-	95*	0.65	40
25	39	7.0	10	30	-	125*	0.80	40
32	48	8.0	10	30	-	160*	1.20	40
40	58	9.0	10	30	-	200*	1.65	40
50	68	9.0	10	30	-	250*	1.90	40
65	85	10.0	10	30	-	400*	2.80	40
75	95	10.0	10	30	-	450*	3.00	40
80	100	10.0	10	30	-	480*	3.25	40
102	126	12.0	10	30	-	600*	5.50	20
115	139	12.0	10	30	-	700*	5.90	20
127	157	15.0	10	30	-	800*	8.10	20
133	163	15.0	10	30	-	800*	8.50	12
140	170	15.0	10	30	-	950*	9.20	12
152	182	15.0	10	30	-	1000*	9.90	20

(*) Bending radius at a working pressure > 1 bar.

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.

Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com



APPLICATION

- Delivery hose for cooling water.
- Normally used in foundries and steel mills.
- Delivery hose.

CONSTRUCTION

TUBE

- Synthetic rubber. Black colour, smooth.

REINFORCEMENT

- High resistance textile plies.

COVER

- Synthetic rubber, covered with a vulcanized glass fiber fabric. Smooth, light colour.

MAIN BENEFITS

- The special glass fiber coating protects the structure from splashes of glowing material and radiation heat up to peaks of approx. +400°C.

TEMPERATURE RANGE

- From -30°C to +70°C, peaks up to +90°C.

SAFETY FACTOR

- ≥ 3 times working pressure.

FITTING

- With pressed-in couplings, safety clamps, collars or other systems required by equipment manufacturers.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: On demand - Length: ISO 1307

Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius mm	Approx. weight kg/m	Max. length m
19	32	6.5	10	30	-	95*	0.59	40
25	39	7.0	10	30	-	125*	0.80	40
32	48	8.0	10	30	-	160*	1.20	40
40	58	9.0	10	30	-	200*	1.66	40
50	68	9.0	10	30	-	250*	1.90	40
65	85	10.0	10	30	-	400*	2.80	40
75	95	10.0	10	30	-	450*	3.00	40
80	100	10.0	10	30	-	480*	3.25	40
90	110	10.0	10	30	-	540*	3.70	40
100	120	10.0	10	30	-	600*	4.15	40
125	145	10.0	10	30	-	800*	5.30	40
150	180	15.0	10	30	-	1000*	8.70	20
203	234	15.5	10	30	-	1400*	12.80	12

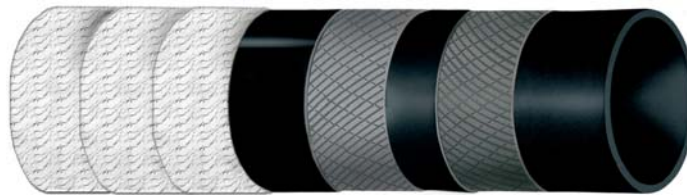
NOTE: Diameters 254 mm and 305 mm available upon request.

(*) Values at a working pressure > 3 bar.

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.

Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com



APPLICATION

- Rubber hose for delivery of cooling water.
- Normally used in foundries and steel mills.
- Suitable for applications requiring bending and twisting up to max 6 degrees/meter.

CONSTRUCTION

TUBE

- Synthetic rubber, black colour, smooth.

REINFORCEMENT

- High strength plies of synthetic cord.

COVER

- Synthetic rubber, black colour, covered with vulcanized glass fiber.
- It withstands splashes of hot material and radiating heat up to approximately +400°C.
- Self-extinguishing cover according to ASTM C 542.

TEMPERATURE RANGE

- From -30°C to +70°C, peaks up to +90°C.

SAFETY FACTOR

- ≥ 3 times working pressure.

FITTING

- It is only supplied in service lengths with vulcanized fittings at the ends.

MARKING

- On demand.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius mm	Approx. weight kg/m	Max. length m
100	125	12.5	10	30	-	500	4.80	20
125	150	12.5	10	30	-	625	6.10	20
150	178	14.0	10	30	-	750	7.70	20
200	236	18.0	10	30	-	1000	13.60	20

In order to calculate the overall torsion, please consider the nominal length of the hose and deduct 2 meters.
Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com

APPLICATION

- Suction and delivery hose for cooling water, normally used in foundries and steel mills.

CONSTRUCTION

TUBE

- Synthetic rubber, smooth, black colour.

REINFORCEMENT

- High strength plies of synthetic cord.
- Embedded steel helix wires.

COVER

- Synthetic rubber covered with a double glass fiber fabric vulcanized on top, and an additional red silicone smooth coating.

NOTE

- It is supplied in service lengths.
- Not suitable for bending and twisting.

FITTING

- By means of clamps, collars, crimping or other systems required by the equipment manufacturers.

MAIN BENEFITS

- The glass fiber cover coated with vulcanized silicone protects the hose from splashes of incandescent material and heat radiation up to approx. + 500°C.

WORKING PRESSURE

- 16 bar.

VACUUM

- -0.9 bar.

MIN. BENDING RADIUS

- 8 times the inner diameter.

TEMPERATURE RANGE

- From -25°C to +80°C. Peaks up to +100°C.

SAFETY FACTOR

- ≥ 3 times working pressure.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).

MANIFATTURA TUBI GOMMA S.p.A.Grisignano di Zocco, 36040 (VI) ITALY
T. +39 0444.614755 | info@mtgspa.com
www.mtgspa.com

APPLICATION

- Suction and delivery hose for cooling water, normally used in foundries and steel mills.

CONSTRUCTION

TUBE

- Synthetic rubber, smooth, black colour.

REINFORCEMENT

- High strength plies of synthetic cord and embedded steel helix wires.

COVER

- Synthetic rubber covered with a vulcanized glass fiber fabric, smooth, light colour.

NOTE

- It is supplied in fixed lengths; enlarged cuffs at the ends if required.
- The couplings will have to be agreed with our Technical Department.
- Not suitable for bending and twisting.

FITTING

- Stems applied to the hose by vulcanization.

MAIN BENEFITS

- The glass fiber cover protects the hose from splashes of hot material and radiant heat up to approx. +400°C.

WORKING PRESSURE

- 10 bar.

VACUUM

- -0.9 bar.

MIN. BENDING RADIUS

- 6 times the inner diameter.

TEMPERATURE RANGE

- From -25°C to +80°C. Peaks up to +100°C.

SAFETY FACTOR

- ≥ 3 times working pressure.

TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Other sizes and colours are available on request. Please contact our Sales Department. Above technical data are referring to application at room temperature (20°C).