Antistatica
Datasheet

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A Michelin Group Company

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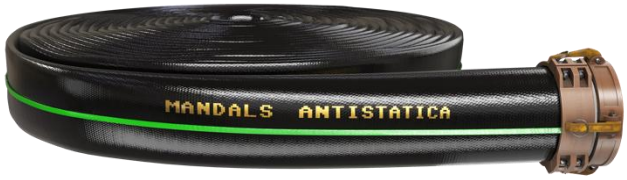

The Antistatica is a heavy-duty antistatic TPU hose that offers a high degree of flexibility. The hose can be used for transferring liquids such as oil, fuel, and chemicals. It can also be used as a general-purpose antistatic hose.

Antistatica is structurally like Boreman in properties, with two additional conductive straps along the hose ensuring conductivity between couplings.

Primary Uses & Applications

- Bulk refueling
- Refineries
- Hydraulic fracturing
- Military fuel transportation

Construction

- A high tensile polyester reinforcement jacket enveloped by a high-grade thermoplastic polyurethane (TPU) lining and cover material.
- The TPU is extruded through a circular woven reinforcement, creating a strong bond between cover and lining that prevents delamination, as well as firmly encapsulating the reinforcing polyester yarn.
- The antistatic property is ensured by dual longitudinal copper wire straps attached to the hose body and which are connected to the end couplings.

Features

- Excellent abrasion resistance and high tensile strength.
- Resistant to UV, ozone, fuels, and commonly used chemicals.
- Weathering and hydrolysis resistant.
- Positive buoyancy when operated in sea water or fresh water.
- Flexibility persistence at low temperatures.
- Easy access to the copper wires for safe installation.
- Low weight compared to alternatives.
- Little or no axial elongation at working pressure.

Properties

- Lengths up to 200 meters. Longer lengths upon request.
- Color options: Black with green lines (standard).
- Operating temperature from -50°C to + 60 °C (-58°F to +140°F), depending on fuel.
- Recommended operating pH range: 5-9.
- Electrical conductivity less than 0.05Ω/m, exceeding MIL-PRF-370 type C requirements.

Antistatica

Article Number	Inner Diameter[1]		Wall Thickness		Weight		Maximum Working Pressure[2]		Burst Pressure		Nom. Tensile Strength[3]	
-	Inch	mm	Inch	mm	lbs/ft	kg/m	psi	bar	psi	bar	X1000 lbs	X1000 kg
WMA051	**2**	51	0.13	3.3	0.50	0.74	225	15	900	62	10.1	4.6
WMA076	**3**	76	0.13	3.3	0.70	1.05	225	15	900	62	17.6	8.0
WMA102	**4**	102	0.15	3.8	1.10	1.64	225	15	900	62	30.8	14.0
WMA127	**5**	127	0.17	4.4	1.40	2.10	210	14	840	58	44.1	20.0
WMA152	**6**	152	0.17	4.4	1.74	2.60	215	15	870	60	50.7	23.0

Note: [1]Tolerance range based on ISO1307 Type C. [2]Safety factor 4 used for fuel transfer in accordance with MIL-PRF-370 type C. Values are for hose only, never use higher working pressure than the coupling is rated for. For questions about chemical resistance please check mandals.com/support. [3]Calculated value. Use a reduction factor of 0.75 for realistic maximum tensile strength values.