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ABRASIL-X TUBE white/black conductive

HOSES › Pipes for the pharmaceutical industry › SILICONE hoses for the pharmaceutical industry

Mastertubi.it/q?1604

Recommended hose for suction and transport in the food and pharmaceutical industries. Generally acceptable for pneumatic conveying of flammable and non-flammable liquids, bulk materials and for the suction of all types of abrasive particles. Also recommended for conveying liquids or semi-liquids in the food, cosmetic, pharmaceutical and chemical industries.
It is especially recommended when the internal product is abrasive. It has a smooth appearance both inside and outside.

Property:
Completely non-toxic tube. Black and smooth inner layer, white and smooth outer layer. The inner layer of the tube has a resistivity of less than 107 O. It can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 µm (or 0.5 µm on request).
Operating temperature range -20°C (-4°F) to +90°C (194°F),
with the possibility of reaching +120 °C (248 °F) for short periods.

The standard production length is 4 meters (13.12 feet), but for specific diameters it is possible to reach a length of 6 meters (19.69 feet).

It can be cleaned with steam or SIP process at 120°C.
Volume loss of 40-50mm³.

Limitations: Observe the established values for the bending radius and the operating pressure.

Regulations - Abrasil is produced in compliance with:
- US FDA Standard 21 CFR 177.2600
- ResAp 2004 (5), according to Reg. 1935/2004/EEC and Reg. 10/2011/EEC
- This tube complies with the RoHS Directive 2002/95/EEC for the restriction of the use of certain hazardous substances and its subsequent amendments, including RoHS2 Directive 2011/65/EU and RoHS3 Directive 2015/863

Diameter Internal		Thickness of wall	Pressure of exercise	Pressure of explosion	Radius of curvature
mm	inch	mm	bar at 20°C	bar at 20°C	mm
6	1/4"	5.0	14.5	43.5	28.6
8	5/16"	5.0	14.1	42.4	31.4
10	3/8"	5.0	13.7	41.2	34.4
13	1/2"	5.0	13.2	39.6	39.1
16	5/8"	5.0	12.7	38.0	44.3
19	3/4"	5.0	12.1	36.4	49.7
22	7/8"	5.0	11.6	34.8	55.6

25	1"	5.0	11.1	33.3	61.8
32	1"1/4	5.0	10.0	30.0	77.7
38	1"1/2	5.0	9.1	27.3	92.9
51	2"	5.0	7.3	22.0	130.8
63	2"1/2	5.0	5.9	17.7	171.8
76	3"	5.5	4.6	13.8	222.8
102	4"	5.5	2.7	8.2	345.2

Construction
This model is made with two polyester fabric reinforcements and a metal wire spring, all enclosed inside the tube.

Classification of hose grades ATEX standard Directive 2014/34/EU:
This reference falls outside the scope of the ATEX Product Directive as it is a product without its own ignition source.

Electrical characteristics information:
- ISO 8031:2020/EN12115 (if complete with end fittings) R<1000
- ISO 8031:2020 & IEC/TS 60079 32-1:2013 Antistatic on the inner lining only
(with built-in antistatic layer, 1?O=R=100?O)

Explosive atmosphere inside the tube
ATEX ZONES:
Zone 0-20 (Class I and II D1)
Zone 1-21 (Class I and II D1)
Zone 2-22 (Class I and II D2)
According to IEC/TS 60079-32-1:2013 the tube can be classified as "Acceptable" for flammable liquids with high conductivity (>10,000 pS/m) and as "Generally acceptable"-1 for liquids with medium and low conductivity (

Explosive atmosphere outside the tube
ATEX ZONES:
Zone 0-20 (Class I and II D1)
Zone 1-21 (Class I and II D1)
Zone 2-22 (Class I and II D2)
A specific risk analysis is required according to the point "Use precautions"

1 - "Generally acceptable". QL grade anti-static tubes are acceptable in most circumstances, but should be avoided immediately downstream of highly charged devices such as high flow fine filters that can generate more than 10 µA of current (IEC/TS 60079-32-1:2013, clause 7.7.3.5).

? Where the charge generation rate may exceed 10 µA, Antistatic QL. QL grade hoses may not be able to dissipate charges safely. In this case, QL or Q-CL grade conductive hose should be used.

The use of the CE mark and the ATEX logo on these hoses is prohibited.

Continuous electrical connection