

AP-Tube PFA High Purity

PFA-tubing made of high-purity PFA raw material.

flame retardant | food approved | spiral-free | metal-free | resistant to chemicals

Product Details

Key facts

- Product Advantages: heat- and steam-resistant material, material with excellent non-stick properties, material is non-stick and therefore easy to clean, NSF/ANSI 51 approval (depending on the product type), food compliant (FDA/EU...) depending on the product type, antistatic and electrically conductive in accordance with ATEX 94/9/EC (depending on the product type), good weldability, tubes are autoclavable or steam sterilisable

Construction / Material

- Type of construction: extruded hose without metal spiral
- Execution of the wall: made from a copolymer of TFE (tetrafluoroethylene) with a side chain modification of PPVE (perfluoropropylvinyl ether)
- Material of the wall: fully fluorinated plastic PFA (perfluoroalkoxy)
- Specifications of the wall: compliant with SEMI F57 and C90, non-flammable (UL 94: V0)

Properties

- Chemical Properties: good resistance to solvents, good UV resistance, weather-resistant, free from paint wetting impairment substances (LABS), low extractability, low permeation, chemical inertness, good resistance to aggressive chemicals
- Mechanical Properties: high mechanical strength and surface hardness, very high resistance to stress cracking, very low sliding and static friction expressed by a low coefficient of friction, high elongation at break
- Physical Properties: low surface energy, good dielectric properties

- Colour: transparent to translucent (depending on wall thickness), other colours available according to the RAL colour chart
- Other: resistance to harsh environment

Operating Temperature

- Temperature Range: -200to 260°C

Delivery Information

- Delivery, type of production: coils 50/100 m, cut lengths, ppools, lengths on request, inch dimensions are available as standard, other dimensions can be produced at short notice on request, packaging: clean, dust-free, double-packed in PE film, end caps

Application Areas

- Areas of application: Plant & Mechanical Engineering, Semiconductor Industry, Chemistry

Article Variants

Article number	Inch	Inner diameter in mm	Outer diameter in mm	Bending radius* in mm	Wall thickness in mm	Wall thickness tolerance in mm	Tolerance outer diameter in mm	Theoretical burst pressure in bar
/	1/16“	0.81	1.57	7	0.38	0.38	+/-0,08	78.0
/	1/8“	1.59	3.18	13	0.79	0.79	+/-0,08	80.5
009698	3/16“	3.18	4.76	29	0.79	0.79	+/-0,08	53.8
/	1/4“	3.21	6.35	26	1.57	1.57	+/-0,10	80.1
010801	1/4“	3.97	6.35	34	1.19	1.19	+/-0,10	60.7
009558	1/4“	4.76	6.35	51	0.79	0.79	+/-0,10	40.3
/	5/16“	6.35	7.94	80	0.79	0.79	+/-0,10	32.2
/	3/8“	7.94	9.52	115	0.79	0.79	+/-0.10	26.9
/	3/8“	6.38	9.52	58	1.57	1.57	+/-0.10	53.4
/	1/2“	11.12	12.70	204	0.79	0.79	+/-0.12	20.2
009736	1/2“	9.56	12.70	103	1.57	1.57	+/-0.12	40.1
009741	3/4“	15.91	19.05	232	1.57	1.57	+/-0.12	26.7
/	1“	22.26	25.40	411	1.57	1.57	+/-0.20	20.0
009744	1 1/4“	27.95	31.75	531	1.90	1.90	+/-0.20	19.4
/	1 1/2“	33.73	38.10	666	2.18	2.18	+/-0.20	18.5

Data sheet PFA tubings, imperial, e.g. PFA 450 High Purity (HP)
The minimum bending radius specifications for our tubings are partly theoretical and represent typical values at 23 °C. The specifications are provided for comparison purposes only and do not represent guaranteed properties. They must be verified by the user.
The burst pressure specifications for our tubings are partly theoretical and are based on the unit bar at a room temperature of 23 °C. The values are used for product comparison purposes, but do not represent guaranteed properties of our products. Pressure resistance decreases as temperatures rise. For safe operation, we recommend maintaining at least three times the safety margin (max. operating pressure = ambient pressure at the corresponding operating temperature /3).

Delivery Variants

Available in other lengths, other nominal diameters, with customer-specific customer-specific imprint.

Disposal instructions

After use, the product must be disposed of in accordance with the legal regulations applicable in the user's region (in Germany in accordance with the applicable Waste Catalogue Ordinance (AVV)).



Individual consultation

We offer consultation by phone: **+49 209 97077 0**

Product requests via: **https://www.masterflex-slang.nl/**

Headquarters for your sales area

Masterflex SE

Willy-Brandt-Allee 300
45891 Gelsenkirchen
Germany