



Fluoroplastic Tubing

Fluoroplastic tubing has many applications. The unique properties allow the tubing to solve problems possible with no other material.

Fluoropolymer tubing exhibits a remarkable combination of properties, from excellent chemical resistance, broad temperature capability, electrical insulation to high purity, toughness and non-stick features.

Our fluoropolymer tubing, including PTFE, FEP and PFA tubing, is available in a variety of wall thicknesses and in hundreds of standard sizes. Each application has different requirements, so we also produce special custom fluoropolymer tubing to order.



Fluoroplastic Unique Properties

- Virtual total chemical and solvent resistance
- Working temperature from -200 °C to +260 °C
- Remains flexible at cryogenic temperatures
- Very low coefficient of friction
- Non-stick surface
- Extremely high electrical resistance
- Very low dielectric loss at high frequencies
- Total resistance to UV radiation
- Naturally non-inflammable
- Non-toxic
- Inert to body tissue (does not cause reaction)

For more information about our Fluoroplastic Tubing, please visit [adtech.co.uk](https://www.adtech.co.uk).

For other custom sizes or technical assistance, contact our customer service team:

+44 (0)1285 762000 - sales@adtech.co.uk

Thin Wall Sleeving in PTFE, FEP & PFA

Standard Wall (TW) Series

Extra Thin Wall (LW) Series

Heavy Wall (HW) Series

Adtech Part No	Nom. ID (mm)	Wall (mm)	Adtech Part No	Nom. ID (mm)	Wall (mm)	Adtech Part No	Nom. ID (mm)	Wall (mm)
TW00	8.54	0.38	STW00	8.54	0.31	HW00	8.54	0.51
TW01	7.62	0.38	STW01	7.62	0.25	HW01	7.62	0.51
TW02	6.81	0.38	STW02	6.81	0.25	HW02	6.81	0.51
TW03	6.08	0.38	STW03	6.08	0.25	HW03	6.08	0.51
TW04	5.44	0.38	STW04	5.44	0.25	HW04	5.44	0.51
TW05	4.83	0.38	STW05	4.83	0.25	HW05	4.83	0.51
TW06	4.32	0.38	STW06	4.32	0.25	HW06	4.32	0.51
TW07	3.84	0.38	STW07	3.84	0.20	HW07	3.84	0.51
TW08	3.43	0.38	STW08	3.43	0.20	HW08	3.43	0.51
TW09	3.03	0.38	STW09	3.03	0.20	HW09	3.03	0.51
TW10	2.72	0.38	STW10	2.72	0.20	HW10	2.72	0.41
TW11	2.44	0.31	STW11	2.44	0.20	HW11	2.44	0.41
TW12	2.19	0.31	STW12	2.19	0.20	HW12	2.19	0.41
TW13	1.96	0.31	STW13	1.96	0.20	HW13	1.96	0.41
TW14	1.76	0.31	STW14	1.76	0.20	HW14	1.76	0.41
TW15	1.58	0.31	STW15	1.58	0.15	HW15	1.58	0.41
TW16	1.43	0.31	STW16	1.43	0.15	HW16	1.43	0.41
TW17	1.26	0.31	STW17	1.26	0.15	HW17	1.26	0.41
TW18	1.14	0.31	STW18	1.14	0.15	HW18	1.14	0.41
TW19	1.01	0.31	STW19	1.01	0.15	HW19	1.01	0.41
TW20	0.91	0.31	STW20	0.91	0.15	HW20	0.91	0.41
TW22	0.73	0.25	STW22	0.73	0.15	HW22	0.73	0.31
TW24	0.59	0.25	STW24	0.59	0.15	HW24	0.59	0.31
TW26	0.47	0.23	STW26	0.47	0.15	HW26	0.47	0.23
TW28	0.40	0.23	STW28	0.40	0.15	HW28	0.40	0.23
TW30	0.32	0.23	STW30	0.32	0.15	HW30	0.32	0.23

All of the above can be produced in FEP and PFA if required.

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Metric Size Tubing in PTFE, FEP & PFA

Metric 0.5mm Wall Series

ID (mm)	PTFE	FEP	PFA
1	A	A	O
2	A	A	O
3	A	A	O
4	A	A	O
5	O	O	O
6	A	A	O
7	O	A	O
8	A	O	O
9	O	A	O
10	A	A	O
11	O	A	O
12	O	O	O
13	O	A	O
14	O	O	O
15	O	O	O
16	O	A	O
18	O	O	O
19	O	A	O
20	O	O	O
22	X	O	O
23	X	A	O
25	X	O	O
27	X	A	O
30	X	O	O
32	x	A	O

Metric 1.0mm Wall Series

ID (mm)	PTFE	FEP	PFA
2	A	O	O
3	A	A	O
4	A	A	O
5	A	O	O
6	A	A	A
7	A	O	O
8	A	A	A
10	A	A	A
11	O	O	O
12	A	O	O
13	O	O	O
14	A	O	O
15	O	O	O
16	O	O	O
18	O	O	O

Metric 1.5mm Wall Series

ID (mm)	PTFE	FEP	PFA
10	O	O	O
12	O	O	O
14	O	O	O
15	O	O	O
16	A	O	O
18	O	O	O
19	A	A	O
23	O	A	O
25	O	O	O
29	O	A	O
30	O	O	O
32	X	O	O
47	X	O	O
66	X	O	O
74	O	O	O

Ultra Thin Wall Metric Tubing (UT)

INSIDE DIA mm	Wall Mm	PTFE	FEP	PFA
0.20	0.10	A	X	X
0.30	0.10	A	X	X
0.40	0.10	A	X	X
0.50	0.10	A	X	X
0.60	0.10	A	X	X
0.70	0.10	A	X	X
0.80	0.10	A	X	X
0.90	0.10	A	X	X
1.0	0.10	A	X	X

Product Status:

- A Normally available from stock
- O Made to order
- X Size not available

Imperial (Inch) Size Tubing in PTFE, FEP & PFA

Thin (0.031") Wall Series

ID		OD		PTFE	FEP	PFA
Inch	mm	Inch	mm			
1/32	0.80	3/32	2.40	A	O	O
1/16	1.60	1/8	3.20	A	A	A
3/32	2.40	5/32	4.00	A	O	O
1/8	3.20	3/16	4.80	A	A	O
3/16	4.80	1/4	6.30	A	A	A
1/4	6.30	5/16	8.00	A	A	O
5/16	8.00	3/8	9.60	A	O	O
3/8	9.60	7/16	11.10	O	O	O
1/2	12.70	9/16	14.30	O	O	O
3/4	19.00	13/16	20.60	O	O	O

Thick (0.0625") Wall Series

ID		OD		PTFE	FEP	PFA
Inch	mm	Inch	mm			
1/8	3.20	1/4	6.30	A	A	A
3/16	4.80	5/16	8.00	A	O	O
1/4	6.30	3/8	9.60	A	A	A
5/16	8.00	7/16	11.10	O	O	O
3/8	9.60	1/2	12.70	A	A	A
1/2	12.70	5/8	15.90	A	A	A
5/8	15.90	3/4	19.00	A	O	A
3/4	19.00	7/8	22.20	O	O	O
7/8	22.20	1	25.40	O	O	O
1	25.40	1 1/8	28.60	O	O	O

Special Fractional (inch) Size Tubes

ID		OD		PTFE	FEP	PFA
Inch	mm	Inch	mm			
1/64	0.40	1/16	1.60	A	A	O
1/32	0.80	1/16	1.60	A	A	A
3/32	2.40	1/8	3.20	A	A	O
5/16	4.00	1/4	6.30	A	O	A

Standard Tolerances

The following minimum tolerances apply to all our tubing. Tighter tolerances can be met on

ID (mm)	Tolerance (mm)	Wall (mm)	Tolerance (mm)
0.20 - 1.00	+/-0.05	0.10 - 0.15	+/-0.03
1.10 - 2.00	+/-0.10	0.16 - 0.30	+/-0.05
2.10 - 4.00	+/-0.15	0.31 - 0.60	+/-0.07
4.10 - 8.00	+/-0.20	0.61 - 0.90	+/-0.10
8.10 - 12.50	+/-0.30	0.91 - 2.00	+/-0.20
12.60 - 25.00	+/-0.50		

Product Status:

- A Normally available from stock
- O Made to order

Pin Pack Tubing: All smaller common sizes of PTFE sleeving are available in plastic pin packs. Smaller lengths are blister packed and these are ideal for developers, or laboratories needing to experiment with different sizes of sleeving. This sleeving as standard comes with UL approval, essential for those manufacturers exporting electrical products to the USA.

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