

Ultrahigh-Purity PFA Tubing

PFA4 and PFA9D

Features

- Available in ultrahigh-purity and advanced (fluorosurfactant resistant) ultrahigh-purity grades
- 100 % virgin material
- PFA has high thermal stability
- Meets SEMI F57-0301 specifications
- Flammability: UL 94 rated V-O (self-extinguishing)



Pressure-Temperature Ratings

Fractional Tubing

Tubing Size, in.	1/8	1/4	3/8	1/2	3/4	1	1 1/4
Temperature °F (°C)	Working Pressure psig (bar)						
75 (23)	300 (20.6)	275 (18.9)	235 (16.1)	170 (11.7)	110 (7.5)	80 (5.5)	
350 (176)	60 (4.1)	35 (2.4)	30 (2.0)	20 (1.3)	15 (1.0)	10 (0.6)	

Metric Tubing

Tubing Size, mm	4	6	8	10
Temperature °C (°F)	Working Pressure bar (psig)			
23 (75)	34.4 (500)	16.1 (235)	11.7 (170)	8.9 (130)
176 (350)	4.1 (60)	2.0 (30)	1.3 (20)	1.2 (18)

Marking

Tubing is laser etched with the tubing size, material designator, and lot traceability number.

Cleaning and Packaging

Ultrahigh-purity fluoropolymer tubing is packaged and shipped with the ends capped in accordance with SEMI F57-0301.

Tubing Sizes

Fractional Tubing

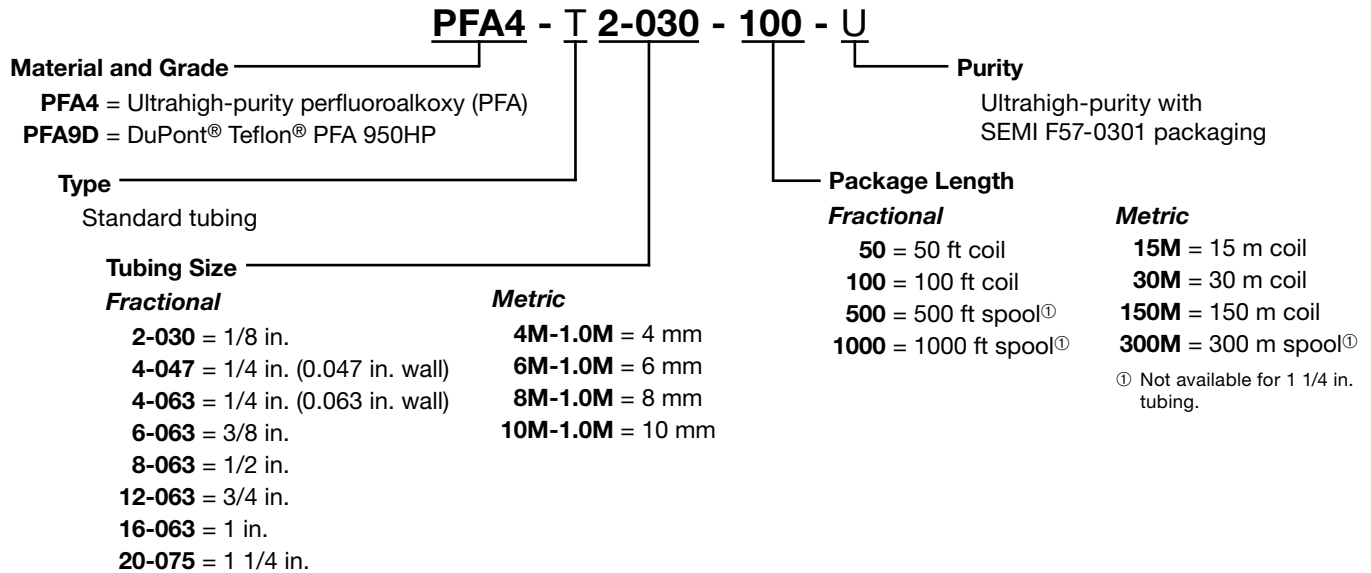
Tube OD in.	Tube ID in.	Nominal Wall Thickness in.
1/8	0.06	0.030
1/4	0.16	0.047
	0.12	
3/8	0.25	0.063
1/2	0.38	
3/4	0.63	
1	0.88	0.075
1 1/4	1.10	

Metric Tubing

Tube OD mm	Tube ID mm	Nominal Wall Thickness mm
4	2.0	1.0
6	4.0	
8	6.0	
10	8.0	

Ordering Information

Build an ultrahigh-purity fluoropolymer tubing ordering number by combining the designators as shown below.



Accessories

Tube Cutter

A tube cutter for plastic tubing up to 1 in. outside diameter is available.

Ordering number: **MS-FT-TC**



Plastic Tube Flaring System

Model FTF 1000

- Precision tube flaring system for use with fine thread flare connections
- Accommodates tubing sizes of 1/4, 3/8, 1/2, 3/4, and 1 in.
- Electronic controls ensure uniform tube heating and repeatable flared ends
- Complete flaring cycle in approximately one minute
- Easy to learn and operate



See the Swagelok® *Plastic Tube Flaring System* catalog, MS-02-319, for more information.

Ultrahigh-Purity Fluoropolymer Products

The Swagelok family of UHP fluoropolymer products includes pneumatically actuated and quarter-turn manual radial diaphragm-sealed shutoff valves, O-ring-free poppet check valves, and fine thread flare fittings.

See these Swagelok catalogs for more information:

- *Ultrahigh-Purity Fluoropolymer Diaphragm Valves—DRP Series*, MS-02-171
- *Ultrahigh-Purity Fluoropolymer O-Ring-Free Poppet Check Valves—CHP Series*, MS-02-320
- *High-Purity PFA Fine Thread Flare Fittings*, MS-02-195

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

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