

# 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
<b>Temperature</b> °F (°C)	<b>Working Pressure</b> 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
<b>Temperature</b> °C (°F)	<b>Working Pressure</b> 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

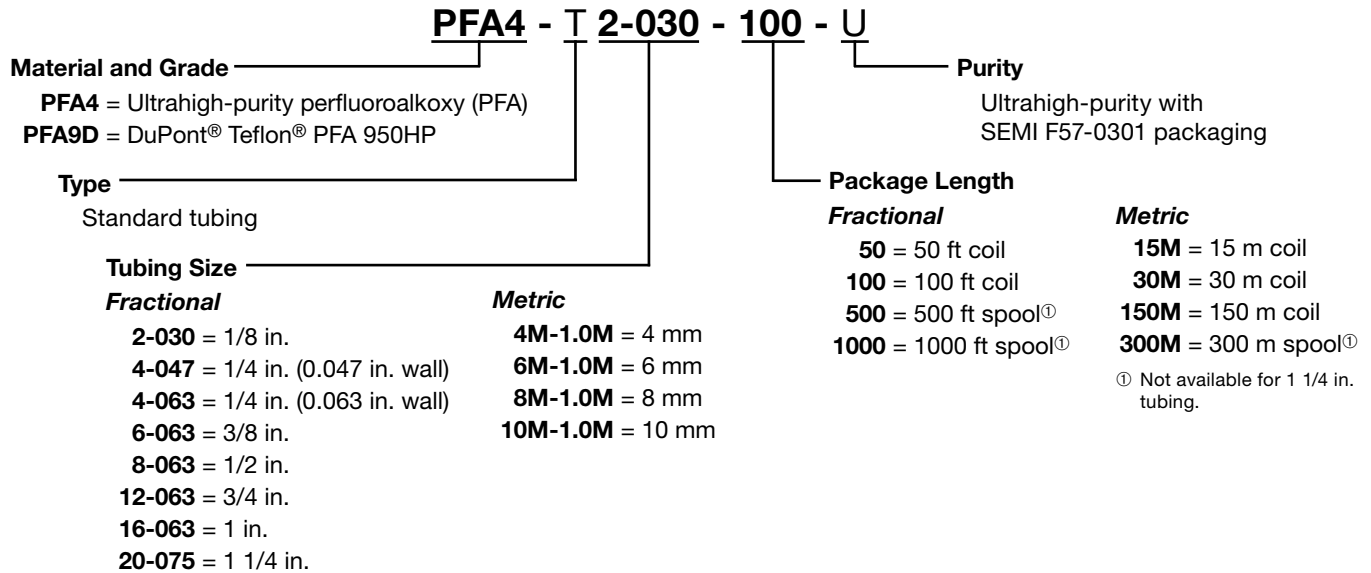
Tube OD in.	Tube ID in.	Nominal Wall Thickness in.
1/8	0.06	0.030
1/4	0.16	0.047
	0.12	
3/8	0.25	0.063
1/2	0.38	
3/4	0.63	
1	0.88	0.075
1 1/4	1.10	

#### 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.

#### 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.**

## 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 Diaphragm Valves with Adjustable Flow and Bypass Features—Adjustable DRP Series*, MS-02-300
- *Ultrahigh-Purity Fluoropolymer 3-Way Diaphragm Valves, Pneumatically Actuated—DRP Series*, MS-02-321
- *Ultrahigh-Purity Fluoropolymer O-Ring-Free Poppet Check Valves—CHP Series*, MS-02-320
- *High-Purity PFA Fine Thread Flare Fittings*, MS-02-195

## Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit [swagelok.com](http://swagelok.com) or contact your authorized Swagelok representative.

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