# 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	<b>Working Pressure</b>						
°F (°C)	psig (bar)						
75	300	275	235	170	110	8	0
(23)	(20.6)	(18.9)	(16.1)	(11.7)	(7.5)	(5	.5)
350	60	35	30	20	15		0
(176)	(4.1)	(2.4)	(2.0)	(1.3)	(1.0)		.6)

## **Metric Tubing**

Tubing Size, mm	4	6	8	10
Temperature	Working Pressure			
°C (°F)	bar (psig)			
23	34.4	16.1	11.7	8.9
(75)	(500)	(235)	(170)	(130)
176	4.1	2.0	1.3	1.2
(350)	(60)	(30)	(20)	(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	
1/2	0.38	0.063
3/4	0.63	
1	0.88	
1 1/4	1.10	0.075

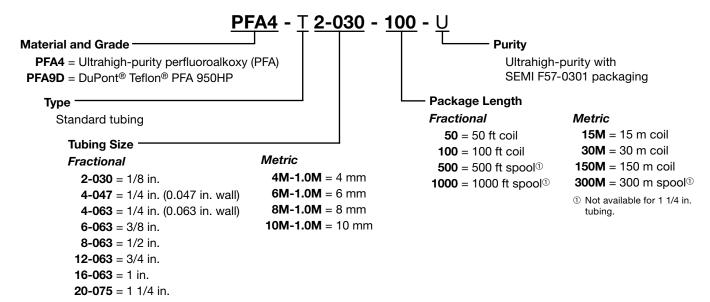
#### **Metric Tubing**

Tube OD mm	Tube ID mm	Nominal Wall Thickness mm
4	2.0	
6	4.0	1.0
8	6.0	1.0
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-HC-SC-1A

Replacement blade ordering number:

MS-HC-SC-1A-BLD



# **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  $^{\rm @}$  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 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 or contact your authorized Swagelok representative.

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