

FURON[®] HP PFA 400 UC TUBING

ULTRA CLEAN WITH LOW
EXTRACTABLES AND
LEACHABLES

Furon HP PFA 400 UC tubing is specifically designed and produced to be used with the harshest chemicals while offering the greatest level of purity, matching industry standards such as SEMI C90. The specific choice of raw material and process selected for its production yields tubing with the lowest total metal extractables and at the same time offers the least surface contamination.

Furon HP PFA 400 UC tubing is ideal for use in the semiconductor industry specifically striving for the smallest printing node and highest yield.

FEATURES AND BENEFITS

- Non-destructive/non-contaminating laser scribing for positive identification of size, material and 100% lot traceability*
- 100% virgin, high-purity, ultra-clean PFA resin
 - Specific material grades available
- Custom laser scribing available (for identifying chemicals/process media, tool number, OEM's name/private label, etc.)
- Optional ISO Class 7 cleanroom manufacturing environment
- Tube ends capped to prevent I.D. contamination
- "Clean-Pak" packaging available
- Fixed interval testing, per Saint Gobain SOP, is in place to ensure product meets SEMI C90 standard

* 1/8" (3.17 mm) OD tubing cannot accommodate scribing

Furon® HP PFA 400 UC Tubing

NOMENCLATURE

Furon HP PFA 400 UC Tubing part numbers are created depending upon various properties of the tube. It is based on selected options available for each property.

Example Part Number

FUI12OFUXFX-001

FU	I	12	O	F	U	X	F	X	-001		
Furon HP PFA 400 UC	Imperial	3/4 inch	OD	0.062	HP PFA UC	Undefined	Feet	Unit Length	Special Item #		
Furon Tubing Product	Size Unit	Size Diameter		ID/OD Definition	Wall Thickness		Material	Packaging	Length Unit	Length	Iteration # (Non-Standard/ Specialty Item)
		in	mm		in	mm					
Furon HP PFA 400 UC = FU	Imperial = I Metric = M	1/8 = 2 1/4 = 4 5/16 = 5 3/8 = 6 7/16 = 7 1/2 = 8 9/16 = 9 5/8 = 10 11/16 = 11 3/4 = 12 13/16 = 13 7/8 = 14 15/16 = 15 1 = 16 1-1/4 = 20 1-1/2 = 24 2 = 32	3 mm = 3 4 mm = 4 5 mm = 5 6 mm = 6 7 mm = 7 8 mm = 8 9 mm = 9 10 mm = 10 11 mm = 11 12 mm = 12 40 mm = 40	ID = I OD = O	0.026 = C 0.031 = D 0.047 = E 0.062 = F 0.075 = G 0.086 = H 0.093 = I	0.5 mm = M 1 mm = N 1.5 mm = O 2 mm = P 2.18 mm = H	HP PFA UC = U	Coil = C Reel = R Straight = S Undefined = X	Feet = F Meters = M	1 - 9 for single digit length in ft 10 = O 15 = A 20 = P 30 = B 50 = C 100 = D 200 = E 250 = F 300 = G 400 = H 500 = I 1000 = J Unit Length = X Note: Length availability dependent upon diameter. Contact us for verification. If length is unknown at time of quote, default to "standard" length for that diameter	This number will only appear on a part number if it is any of the following 1. Special material 2. Specific to a customer 3. Customer configuration Daikin 231SH = 231 Chemours 450HP = 450 Chemours 451HP = 451 Chemours 950HP = 950 Chemours 951HP = 951 Other iterations are present when other material or customization is used. If there is no number or dash in the part number in this position, the tubing is a standard configuration.

FUI12OFUXFX = Standard HP PFA 400 UC Tubing Part Number

FUI12OFUXFX-001 = Non-Standard, Specialty, Customized HP PFA 400 UC Tubing Part Number

Furon® HP PFA 400 UC Tubing

High-purity, all-virgin, thermoplastic fluoropolymer (PFA) material regularly has the ability to withstand a wide range of temperatures from -60°F (-50°C) up to +450°F (232°C). Please [Contact Us](#) for any temperature inquiries.

SPECIFICATIONS

Part Number	O.D.		I.D.		Wall Thickness		Tolerance		Min. Bend Radius*	
	in	mm	in	mm	in	mm	in	mm	in	mm
Standard										
FUI2ODUXFX	1/8	3.17	1/16	1.59	0.031	0.79	+/-0.004	+/- 0.1	0.37	9.30
FUI4OEUXFX	1/4	6.35	5/32	3.97	0.047	1.19			1.20	30.46
FUI6OFUXFX	3/8	9.52	1/4	6.35	0.062	1.57	+/- 0.005	+/- 0.12	2.41	61.10
FUI8OFUXFX	1/2	12.7	3/8	9.52					3.73	94.84
FUI12OFUXFX	3/4	19.05	5/8	15.87					6.78	172.25
FUI16OFUXFX	1	25.4	7/8	22.22	+/- 0.006	+/- 0.15	+/- 0.008	+/- 0.20	10.23	259.93
FUI20OGUXFX	1-1/4	31.75	1.1	27.94					14.99	380.68
FUM40OHUXFX	1.575	40	1.403	35.64	0.086	2.18			21.83	554.39
Heavy Wall										
FUI4OFUXFX	1/4	6.35	1/8	3.17	0.062	1.57	+/- 0.005	+/- 0.12	1.25	31.86
FUI12OIUXFX	3/4	19.05	0.564	14.33	0.093	2.36			16	406.4
FUI16OIUXFX	1	25.4	0.814	20.68			21	533.4		
FUI20OIUXFX	1-1/4	31.75	1.064	27.03			27	685.8		
FUI24OIUXFX	1-1/2	38.1	1.314	33.38	+/- 0.008	+/- 0.20	32	812.8		
Thin Wall										
FUI4ODUXFX	1/4	6.35	3/16	4.76	0.031	0.79	+/- 0.003	+/- 0.08	1.09	27.69
FUI6ODUXFX	3/8	9.52	5/16	7.94					1.98	50.30
FUI8ODUXFX	1/2	12.7	7/16	11.11					2.99	75.90
FUI12ODUXFX	3/4	19.05	11/16	17.46					5.27	133.97

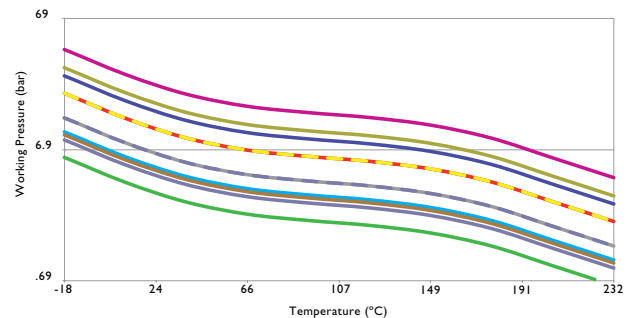
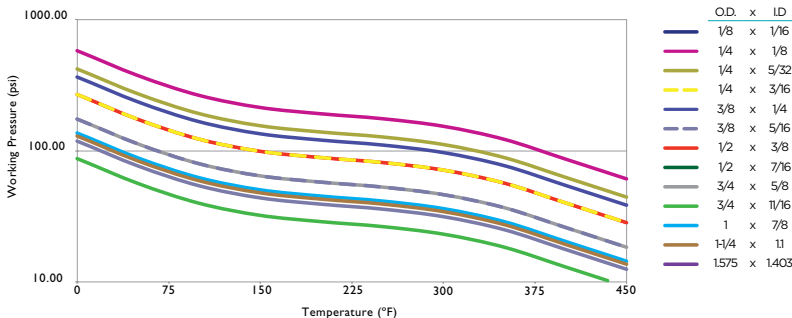
* Values are obtained either by testing or calculation. [Contact us for more detail.](#)

[Using previous part numbers? Click here to see Part Number Comparison Guide for Furon HP PFA 400 UC Tubing](#)

CUSTOMIZATION

Special order sizes, thicknesses and lengths are available; contact the factory for items not listed above. Specific grades of raw materials may be required (for example Chemours™ PFA 450HP, Chemours™ PFA 451HP or Daikin® 231 SH); contact us for the related PN. Cleanroom-compliant plastic reels are available upon request. Coils are available based on length and are shipped in cleanroom-compliant double bags.

FURON HP PFA 400 UC TUBING - WORKING PRESSURES**



** For pressure curves not represented on this graph, [contact us for more detail.](#)



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