

FURON[®] HP PFA 400 CUSTOM LOGIC TUBING

LOW EXTRACTABLES
AND LEACHABLES

Furon HP PFA 400 Custom Logic Tubing is specifically designed to be used with the harshest chemicals, while offering an excellent level of purity ideal for use in the semiconductor industry. Saint-Gobain selects specific validated raw HP PFA material that meets our industry requirement needs.

For the HP PFA Ultra Clean (UC) version of this tubing, [Contact Us](#) or see the datasheet for the [Furon HP UC Tubing Datasheet](#).

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 F57 standard

Furon® HP PFA 400 Custom Logic Tubing

NOMENCLATURE

Furon HP PFA 400 Custom Logic 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

FH I 6 O F H R F X -451

FH	I	6	O	F	H	R	F	X	-451		
400 HP PFA	Imperial	3/8 inch	OD	0.062	HP PFA	Reel	Feet	Unit Length	Chemours 451HP		
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					
400 HP PFA = FH	Imperial = I Metric = M	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	0.031 = D 0.047 = E 0.062 = F 0.075 = G 0.086 = H	0.5 mm = M 1 mm = N 1.5 mm = O 2 mm = P 2.18 mm = H	HP PFA = 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	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.

ULTRA CLEAN TUBING NEEDED?

Click below to see more on our High Purity PFA Ultra Clean (UC) Custom Logic Tubing*

*Must be connected to internet, or go to [furon.com](http://www.furon.com)

**Furon 400 HP UC
CUSTOM LOGIC TUBING
DATASHEET**

Furon® HP PFA 400 Custom Logic 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

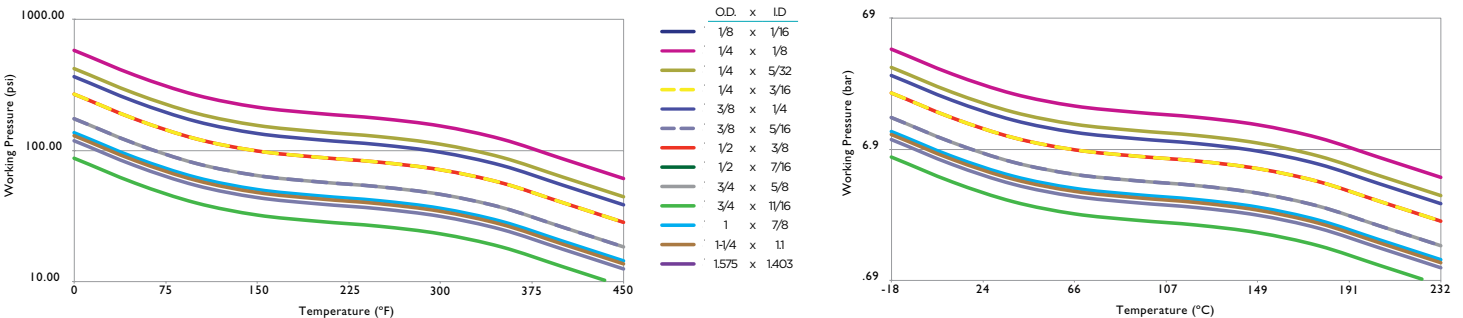
O.D.		I.D.		Wall Thickness		Tolerance		Min. Bend Radius*	
in	mm	in	mm	in	mm	in	mm	in	mm
1/4	6.35	5/32	3.97	0.047	1.19	+/- 0.004	+/- 0.10	1.20	30.46
3/8	9.52	1/4	6.35	0.062	1.57	+/- 0.005	+/- 0.12	2.41	61.10
1/2	12.7	3/8	9.52					3.73	94.84
3/4	19.05	5/8	15.87					6.78	172.25
1	25.4	7/8	22.22					10.23	1259.93
1-1/4	31.75	1.10	27.94	0.075	1.83	+/- 0.008	+/- 0.20	14.99	380.68
1.575	40	1.403	35.64	0.086	2.18			21.83	554.39

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

FURON HP PFA 400 CUSTOM LOGIC MATERIAL

O.D.		I.D.		450HP Chemours™	451HP Chemours™	950HP Chemours™	951HP Chemours™	231SH Daikin®
in	mm	in	mm	Part Number	Part Number	Part Number	Part Number	Part Number
1/4	3.17	5/32	1.59	FHI40EHRFX-450	FHI40EHRFX-451	FHI40EHRFX-950	FHI40EHRFX-951	FHI40EHRFX-231
3/8	6.35	1/4	3.97	FHI60FHRFX-450	FHI60FHRFX-451	FHI60FHRFX-950	FHI60FHRFX-951	FHI60FHRFX-231
1/2	9.52	3/8	6.35	FHI80FHRFX-450	FHI80FHRFX-451	FHI80FHRFX-950	FHI80FHRFX-951	FHI80FHRFX-231
3/4	12.7	5/8	9.52	FHI120FHRFX-450	FHI120FHRFX-451	FHI120FHRFX-950	FHI120FHRFX-951	FHI120FHRFX-231
1	19.05	7/8	15.87	FHI160FHRFX-450	FHI160FHRFX-451	FHI160FHRFX-950	FHI160FHRFX-951	FHI160FHRFX-231
1-1/4	25.4	1.1	22.22	FHI200GHRFX-450	FHI200GHRFX-451	FHI200GHRFX-950	FHI200GHRFX-951	FHI200GHRFX-231
1.575	40	1.403	35.64	FHM400HHRFX-450	FHM400HHRFX-451	FHM400HHRFX-950	FHM400HHRFX-951	FHM400HHRFX-231

FURON HP PFA 400 TUBING - WORKING PRESSURES**



* Values are obtained either by testing or calculation. For pressure curves not represented on this graph, [contact us for more detail.](#)

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Saint-Gobain Performance Plastics

China (+8621) 5472 1568
Sales.PPLCN@saint-gobain.com

Europe (+49) 2131 53359-59
sales-neuss@saint-gobain.com

India (+91) 76208 22999
pplindia.hc@saint-gobain.com

Japan (+81) 3 6256 9703
ls-japan@saint-gobain.com

Korea (+82) 2 6098 0180
LS-Korea@saint-gobain.com

Southeast Asia (+66) 38 667 800
cs.sgplsea@saint-gobain.com

Taiwan (+886) 2 2503 4201
Taiwan.ppl@saint-gobain.com

United States (+1) 856-423-6630
DL-NA-MickletonCustomerService@saint-gobain.com

All Other Regions
www.furon.com

NOTE: This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document should not be considered a Product warranty or guaranty. To the extent this document mentions any tests done by Saint-Gobain, such tests are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values. Saint-Gobain strongly recommends that you conduct practical tests simulating the conditions of your application to ensure that the product meets your requirements for your specific application.

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