

AltaFluor® 400 PFA Tubing

PFA (perfluoroalkoxy) is the product of choice for applications involving extreme chemical resistance combined with high temperature exposure. Although PFA is available in a variety of resin grades, ALTAFLUOR® 400 PFA tubing is made exclusively from the highest molecular weight resins available giving it superior physical properties making it suitable for even the most demanding applications. ALTAFLUOR® 400 is compatible with flare or conventional type fittings.

Features:

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to nearly all industrial chemicals and solvents
- Higher thermal stability than with FEP
- Lower permeability than with FEP
- Translucent
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Suitable for use with flare or conventional fittings
- Available in coiled hose and convoluted constructions
- Higher upper surface temperature vs. FEP

Applications:

- Chemical process
- Heat exchangers
- Laboratory applications
- Semiconductor
- Flow monitoring
- Food processing
- Electrical insulation
- Automotive

PART NUMBER	ID	OD	+/-	WALL	+/-	BEND RADIUS (IN)	WORKING PRESSURE @ 73°F
400-0062-015-XX	1/32	1/16	0.003	0.015	.003		
400-0125-030-XX	1/16	1/8	0.004	0.03	.003	1/2	449
400-0156-030-XX	3/32	5/32	0.004	0.03	.003	1/2	360
400-0188-030-XX	1/8	3/16	0.004	0.03	.003	3/4	299
400-0250-030-XX	3/16	1/4	0.004	0.03	.003	1	225
400-0313-030-XX	1/4	5/16	0.005	0.03	.003	1-3/4	179
400-0375-030-XX	5/16	3/8	0.005	0.03	.003	2-1/2	150
400-0438-030-XX	3/8	7/16	0.005	0.03	.003	3-1/2	128
400-0500-030-XX	7/16	1/2	0.005	0.03	.003	4	112
400-0562-030-XX*	1/2	9/16	0.005	0.03	.003		
400-0625-030-XX*	9/16	5/8	0.005	0.03	.003	6-1/2	90
400-0688-030-XX*	5/8	11/16	0.005	0.03	.003		
400-0750-030-XX*	11/16	3/4	0.005	0.03	.003	8	75
400-0250-040-XX	0.17	1/4	0.004	0.04	.003	1	300
400-0250-047-XX	0.156	1/4	0.004	0.047	.003	3/4	352
400-0188-062-XX	1/16	3/16	0.005	0.062	.003	1/2	617
400-0250-062-XX	1/8	1/4	0.005	0.062	.003	1/2	464
400-0313-062-XX	0.313	0.188		0.062	.003	1	371
400-0375-062-XX	1/4	3/8	0.005	0.062	.003	1	310
400-0438-062-XX	5/16	7/16	0.005	0.062	.003	2	265
400-0500-062-XX	3/8	1/2	0.005	0.062	.003	2	232
400-0625-062-XX	1/2	5/8	0.005	0.062	.003	3	186
400-0750-062-XX	5/8	3/4	0.005	0.062	.003	6	155
400-0875-062-XX*	3/4	7/8	0.005	0.062	.003	12	133
400-1000-062-XX	7/8	1	0.005	0.062	.003	22	116
400-1125-062-XX	1	1-1/8	0.006	0.062	.003	-	105
400-1250-062-XX**	1-1/8	1-1/4	0.006	0.062	.003	-	84
METRIC SIZES							
400-0157-040-XX	2mm	4mm	0.005	1mm	.003	1-1/2	468
400-0197-040-XX	3mm	5mm	0.005	1mm	.003		
400-0236-040-XX	4mm	6mm	0.005	1mm	.003	1-3/4	312
400-0276-040-XX	5mm	7mm	0.005	1mm	.003		
400-0315-040-XX	6mm	8mm	0.005	1mm	.003	2-1/2	234
400-0354-040-XX	7mm	9mm	0.005	1mm	.003		
400-0394-040-XX	8mm	10mm	0.005	1mm	.003	2-3/4	187
400-0433-040-XX	9mm	11mm	0.005	1mm	.003		
400-0472-040-XX	10mm	12mm	0.005	1mm	.003	4	156
400-0551-040-XX	12mm	14mm	0.005	1mm	.003		
400-0630-040-XX	14mm	16mm	0.005	1mm	.003		
400-0354-059-XX	6mm	9mm	0.005	1.5mm	.003		
400-0472-059-XX	9mm	12mm	0.005	1.5mm	.003		

* Custom item - please consult for lead time and minimum order requirements.

** Available in straight lengths only.

ADDITIONAL SIZES UP TO 4" OD ARE AVAILABLE AS CUSTOM EXTRUSIONS - MINIMUM ORDER REQUIREMENTS MAY APPLY.

STOCKED IN NATURAL COLOR - PLEASE CONSULT FOR DETAILS ON AVAILABLE COLORS.

THE ABOVE INFORMATION IS BASED ON TESTS PERFORMED AT 73° F AND CAN VARY IN INDIVIDUAL APPLICATIONS BASED ON PARAMETERS SUCH AS TEMPERATURE, CHEMICAL CONCENTRATION, PRESSURE, ETC.

FOR AN ESTIMATE ON BURST PRESSURE AT AMBIENT TEMPERATURE WE CONSIDER A 3:1 RATIO WHEN EXPOSURE TEMPERATURE IS 73° F. HOWEVER ALTAFLUOR DOES NOT RECOMMEND EXCEEDING THE SUGGESTED WORKING PRESSURE LISTED.

Specifications:

- General: Meets or exceeds the requirements listed in ASTM D 6867-03
- Temperature: -300 °F to 500 °F
- Flammability: UL 94 VO rated. PFA resists combustion and does not promote flame spread
- FDA: ALTAFLUOR® 400 PFA is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550
- USP CLASS VI: ALTAFLUOR® 400 meets the requirements of USP Class VI
- NSF: ALTAFLUOR® 400 PFA tubing is certified to NSF 51, NSF 61 and NSF 372



This ALTAFLUOR® 400 PFA has been tested and certified by WQA against NSF/ANSI 51, NSF/ANSI 61 to Commercial Hot (180° F/82° C), and NSF/ANSI 372 for lead free compliance.

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp.		°F	500
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	4200
Elongation	D 638	%	400
Flex Modulus	D 790	PSI	90 000
MIT Flex Life	D 2176		500 000+
Hardness	D 2240	Shore D	60

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NOTE: THE VALUES REPRESENTED ABOVE ARE BASED ON THE USE OF 100% VIRGIN GRADE HIGH PERFORMANCE - LOW MELT FLOW PFA RESIN AS USED IN THE PRODUCTION OF ALTAFLUOR® 400 SERIES TUBING. WHEN COMPARING DATA IT IS CRITICAL THAT PERFORMANCE VALUES ARE LISTED FOR THE GRADE OF RESIN USED.

ALTAFLUOR® 400 PFA - STANDARD AND ULTRAFLEX CONVOLUTED CONSTRUCTION

PART NUMBER**	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	STANDARD CONVOLUTED	ULTRA FLEX CONVOLUTED
						CONVOLUTIONS PER INCH	
40C-0375-020-XX*	3/8	0.251	0.275	0.375	0.02	6	9
40C-0500-023-XX*	1/2	0.364	0.375	0.5	0.023	6	9
40C-0625-025-XX*	5/8	0.485	0.5	0.625	0.025	5.5	9
40C-0750-025-XX*	3/4	0.608	0.625	0.75	0.025	5	8
40C-0875-025-XX*	7/8	0.73	0.75	0.875	0.025	4	8
40C-1000-025-XX*	1	0.86	0.875	1	0.025	3.5	8

* Custom item - please consult for lead time and minimum order requirements.

** For Ultraflex Convoluted Construction replace C with U

ALTAFLUOR® 400 PFA - TUBING SCHEDULE 40 PIPE

PART NUMBER	NOMINAL SIZE (IN)	ACTUAL SIZE (IN)	WALL (IN)	STOCK LENGTH (FT)
400-0540-088-0C*	1/4	.540 ± .010	.088 ± .020,-0	5/10
400-0840-109-0C*	1/2	.840 ± .010	.109 ± .020,-0	5/10
400-1050-113-0C*	3/4	1.050 ± .010	.113 ± .020,-0	5/10
400-1315-133-0C*	1	1.315 ± .010	.133 ± .020,-0	5/10
400-1660-140-0C*	1-1/4	1.660 ± .015	.140 ± .020,-0	10
400-1900-145-0C*	1-1/2	1.900 ± .015	.145 ± .020,-0	10
400-2375-154-0C*	2	2.374 ± .015	.154 ± .020,-0	10

*Custom item - please consult for lead time and minimum order requirements.

PLEASE SEE ALTAFLUOR® 480 PIPE FOR STOCK ITEMS. ADDITIONAL SIZES AND SCHEDULE 80 PIPE AVAILABLE UPON REQUEST.

CUSTOM ITEM - SEE COILED HOSE ORDER FORM FOR ORDERING INFORMATION.

480 SERIES UHP PFA SCHEDULE 40 PIPE IS A STOCK ITEM AND AVAILABLE FOR IMMEDIATE SHIPMENT.

AltaFluor® 400 PFA Coiled Hose

