

ALTAFLUOR® 400 PFA

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 Series PFA does not impart taste or odor. ALTAFLUOR® 400 is compatible with flare or conventional type fittings.

ALTAFLUOR® 400 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

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.

ALTAFLUOR® 400 - PFA TUBING

PART NUMBER	ID	OD	+/-	WALL	+/-
Industrial Wall					
400-0062-015-XX	1/32	1/16	.003	0.015	.003
400-0125-030-XX	1/16	1/8	.004	0.030	.003
400-0156-030-XX	3/32	5/32	.004	0.030	.003
400-0188-030-XX	1/8	3/16	.004	0.030	.003
400-0250-030-XX	3/16	1/4	.004	0.030	.003
400-0313-030-XX	1/4	5/16	.005	0.030	.003
400-0375-030-XX	5/16	3/8	.005	0.030	.003
400-0438-030-XX	3/8	7/16	.005	0.030	.003
400-0500-030-XX	7/16	1/2	.005	0.030	.003
400-0562-030-XX†	1/2	9/16	.005	0.030	.003
400-0625-030-XX†	9/16	5/8	.005	0.030	.003
400-0688-030-XX†	5/8	11/16	.005	0.030	.003
400-0750-030-XX†	11/16	3/4	.005	0.030	.003
Heavy Wall					
400-0188-062-XX	1/16	3/16	.005	0.062	.003
400-0250-062-XX	1/8	1/4	.005	0.062	.003
400-0313-062-XX	3/16	5/16	.005	0.062	.003
400-0375-062-XX	1/4	3/8	.005	0.062	.003
400-0438-062-XX	5/16	7/16	.005	0.062	.003
400-0500-062-XX	3/8	1/2	.005	0.062	.003
400-0625-062-XX	1/2	5/8	.005	0.062	.003
400-0750-062-XX	5/8	3/4	.005	0.062	.003
400-0875-062-XX†	3/4	7/8	.005	0.062	.003
400-1000-062-XX*	7/8	1	.005	0.062	.003
400-1125-062-XX*	1	1-1/8	.006	0.062	.003
400-1250-062-XX**	1-1/8	1-1/4	.006	0.062	.003
400-1375-062-XX**	1-1/4	1-3/8	.008	0.062	.003
400-1500-062-XX**†	1-3/8	1-1/2	.010	0.062	.003
400-1625-062-XX**†	1-1/2	1-5/8	.012	0.062	.003
400-1750-062-XX**†	1-5/8	1-3/4	.015	0.062	.003
400-2000-062-XX**†	1-7/8	2	.015	0.062	.003
400-2125-062-XX**†	2	2-1/8	.015	0.062	.003
Stock Custom Size					
400-0250-040-XX	.170	1/4	.004	0.040	.003
400-0250-047-XX	.156	1/4	.004	0.047	.003
400-0375-047-XX	.281	3/8	.005	0.047	.003
400-1100-050-XX*	1	1.10	.010	0.050	.003

* Straight length or reels

** Straight lengths only

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

Additional sizes up to 4" OD are available as custom extrusions - minimum order requirements may apply. Please contact Altaflo office for details. Stocked in natural color - please consult factory for details on available colors.



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ALTAFLUOR® 400 - PFA TUBING

PART NUMBER	ID	OD	+/-	WALL	+/-
Metric Sizes					
400-0157-040-XX	.079	.157	.005	0.040	.003
	2mm	4mm		1mm	
400-0197-040-XX†	.118	.197	.005	0.040	.003
	3mm	5mm		1mm	
400-0236-040-XX	.157	.236	.005	0.040	.003
	4mm	6mm		1mm	
400-0276-040-XX†	.197	.276	.005	0.040	.003
	5mm	7mm		1mm	
400-0315-040-XX	.236	.315	.005	0.040	.003
	6mm	8mm		1mm	
400-0354-040-XX†	.276	.354	.005	0.040	.003
	7mm	9mm		1mm	
400-0394-040-XX	.315	.394	.005	0.040	.003
	8mm	10mm		1mm	
400-0433-040-XX†	.354	.433	.005	0.040	.003
	9mm	11mm		1mm	
400-0472-040-XX	.394	.472	.005	0.040	.003
	10mm	12mm		1mm	
400-0512-040-XX†	.433	.512	.005	0.040	.003
	11mm	13mm		1mm	
400-0551-040-XX	.472	.551	.005	0.040	.003
	12mm	14mm		1mm	
400-0630-040-XX	.551	.630	.005	0.040	.003
	14mm	16mm		1mm	
400-0354-059-XX†	.236	.354	.005	0.059	.003
	6mm	9mm		1.5mm	
400-0472-059-XX†	.354	.472	.005	0.059	.003
	9mm	12mm		1.5mm	

* Straight length or reels

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ALTAFLUOR® 400 PFA - BEND RADIUS AND WORKING PRESSURE CHART

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 73°F
400-0125-030-XX	0.125	0.030	0.062	1/2"	445
400-0156-030-XX	0.156	0.030	0.094	1/2"	357
400-0188-030-XX	0.188	0.030	0.125	3/4"	296
400-0188-062-XX	0.188	0.062	0.062	1/2"	612
400-0250-030-XX	0.250	0.030	0.188	1"	223
400-0250-040-XX	0.250	0.040	0.170	1"	297
400-0250-047-XX	0.250	0.047	0.156	3/4"	349
400-0250-062-XX	0.250	0.062	0.125	1/2"	460
400-0313-030-XX	0.313	0.030	0.250	1-3/4"	178
400-0313-062-XX	0.313	0.062	0.188	1"	368
400-0375-030-XX	0.375	0.030	0.313	2-1/2"	148
400-0375-062-XX	0.375	0.062	0.250	1"	307
400-0438-030-XX	0.438	0.030	0.375	3-1/2"	127
400-0438-062-XX	0.438	0.062	0.313	2"	263
400-0500-030-XX	0.500	0.030	0.438	6"	111
400-0500-062-XX	0.500	0.062	0.375	2"	230
400-0625-030-XX	0.625	0.030	0.562	6-1/2"	89
400-0625-062-XX	0.625	0.062	0.500	3"	184
400-0750-030-XX	0.750	0.030	0.688	8"	74
400-0750-062-XX	0.750	0.062	0.625	6"	153
400-0875-062-XX	0.875	0.062	0.750	12"	132
400-1000-062-XX	1.000	0.062	0.875	22"	115
400-1125-062-XX	1.125	0.062	1.000	30"	75
400-1250-062-XX	1.250	0.062	1.125	N/A	70
Metric Sizes					
400-0157-040-XX	.157	0.040	.079	1-1/2"	464
	4mm	1mm	2mm		
400-0197-040-XX†	.197	0.040	.118	1-3/4"	380
	5mm	1mm	3mm		
400-0236-040-XX	.236	0.040	.157	2-1/2"	312
	6mm	1mm	4mm		
400-0276-040-XX†	.276	0.040	.197	2-1/2"	274
	7mm	1mm	5mm		
400-0315-040-XX	.315	0.040	.236	2-3/4"	234
	8mm	1mm	6mm		
400-0354-040-XX†	.354	0.040	.276	2-3/4"	210
	9mm	1mm	7mm		
400-0394-040-XX	.394	0.040	.315	2-3/4"	187
	10mm	1mm	8mm		
400-0433-040-XX†	.433	0.040	.354	4"	170
	11mm	1mm	9mm		
400-0472-040-XX	.472	0.040	.394	4"	156
	12mm	1mm	10mm		
400-0512-040-XX†	.512	0.040	.433		
	13mm	1mm	11mm		
400-0551-040-XX	.551	0.040	.472		
	14mm	1mm	12mm		
400-0630-040-XX	.630	0.040	.551		
	16mm	1mm	14mm		
400-0354-059-XX†	.354	0.059	.236	1"	290
	9mm	1.5mm	6mm		
400-0472-059-XX†	.472	0.059	.354	2"	220
	12mm	1.5mm	9mm		



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ALTAFLUOR® 400 SERIES PFA - PHYSICAL PROPERTIES

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp.			400° F
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	4000
Elongation	D 638	%	400
Flex Modulus	D 790	PSI	90,000
MIT Flex Life	D 2176		200,000
Hardness	D 2240	Shore D	57-60

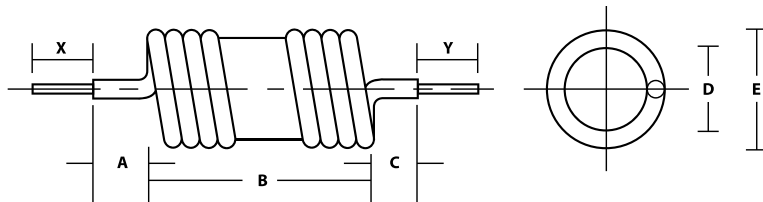
NOTE: The values represented are based on the use of 100% virgin grade high performance - low melt flow FEP resin as used in the production of ALTAFLUOR® 400 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

ALTAFLUOR® 400 PFA - SCHEDULE 40 PIPE

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

*Custom item - please consult factory for lead time and minimum order requirements. Additional sizes and Schedule 80 Pipe available upon request.

ALTAFLUOR® 400 PFA - COILED HOSE



Custom item - see Coiled Hose Order Form for ordering information. Please consult factory for additional details.

ALTAFLUOR® 400 PFA - STANDARD CONVOLUTED CONSTRUCTION

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
40C-0375-020-XX*	3/8	0.251	0.275	0.375	0.020	6
40C-0500-023-XX*	1/2	0.364	0.375	0.500	0.023	6
40C-0625-025-XX*	5/8	0.485	0.500	0.625	0.025	5.5
40C-0750-025-XX*	3/4	0.608	0.625	0.750	0.025	5
40C-0875-025-XX*	7/8	0.730	0.750	0.875	0.025	4
40C-1000-025-XX*	1	0.860	0.875	1.000	0.025	3.5

*Custom item - please consult factory for lead time and minimum order requirements. Please see ALTAFLUOR® 400 Ultra-Flex for stock items.

ALTAFLUOR® 400 PFA - ULTRA FLEX CONVOLUTED CONSTRUCTION

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
40U-0375-020-XX	3/8	0.251	0.275	0.375	0.020	9
40U-0500-023-XX	1/2	0.364	0.375	0.500	0.023	9
40U-0625-025-XX	5/8	0.485	0.500	0.625	0.025	9
40U-0750-025-XX	3/4	0.608	0.625	0.750	0.025	8
40U-1000-025-XX	1	0.860	0.875	1.000	0.025	8



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