

# ALTAFLUOR® 200 FEP

FEP (fluorinated ethylene propylene) is an economical choice for applications requiring chemical resistance in combination with broad temperature exposure. ALTAFLUOR® 200 FEP offers excellent clarity, which makes it ideal for sight glass/flow monitoring applications. Additionally, the outstanding UV transmission rate of FEP makes it a clear choice for UV water purification systems. ALTAFLUOR® 200 Series FEP will not impart taste or odor. ALTAFLUOR® 200 tubing may be used with flare or conventional fittings.

## ALTAFLUOR® 200 FEATURES

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to most industrial chemicals and solvents
- High thermal stability
- Excellent UV transmission
- Low permeability
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Superior electrical insulation properties
- Available in smooth bore, convoluted and coiled hose constructions

## APPLICATIONS

- Chemical process
- Laboratory applications
- UV water purification systems
- Ground water monitoring
- Food processing
- Electrical Insulation
- Automotive
- Paint Spray

## SPECIFICATIONS

**General:** Meets or exceeds the requirements listed in ASTM D 2116 Type IV

**Temperature:** -100°F to 400°F

**Flammability:** FEP resists combustion and does not promote flame spread **FDA:** ALTAFLUOR® 200 FEP is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550

**USP CLASS VI:** ALTAFLUOR® 200 FEP meets the requirements of USP Class VI

**NSF:** ALTAFLUOR® 200 FEP tubing is certified to NSF 51, NSF 61 and NSF 372



This ALTAFLUOR® 200 FEP 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® 200 - FEP TUBING

PART NUMBER	ID	OD	+/-	WALL	+/-
<b>Industrial Wall</b>					
200-0062-015-XX	1/32	1/16	.003	0.015	.003
200-0125-030-XX	1/16	1/8	.004	0.030	.003
200-0156-030-XX	3/32	5/32	.004	0.030	.003
200-0188-030-XX	1/8	3/16	.004	0.030	.003
200-0250-030-XX	3/16	1/4	.004	0.030	.003
200-0313-030-XX	1/4	5/16	.005	0.030	.003
200-0375-030-XX	5/16	3/8	.005	0.030	.003
200-0438-030-XX	3/8	7/16	.005	0.030	.003
200-0500-030-XX	7/16	1/2	.005	0.030	.003
200-0562-030-XX†	1/2	9/16	.005	0.030	.003
200-0625-030-XX†	9/16	5/8	.005	0.030	.003
200-0688-030-XX†	5/8	11/16	.005	0.030	.003
200-0750-030-XX†	11/16	3/4	.005	0.030	.003
<b>Heavy Wall</b>					
200-0188-062-XX	1/16	3/16	.005	0.062	.003
200-0250-062-XX	1/8	1/4	.005	0.062	.003
200-0313-062-XX	3/16	5/16	.005	0.062	.003
200-0375-062-XX	1/4	3/8	.005	0.062	.003
200-0438-062-XX	5/16	7/16	.005	0.062	.003
200-0500-062-XX	3/8	1/2	.005	0.062	.003
200-0625-062-XX	1/2	5/8	.005	0.062	.003
200-0750-062-XX	5/8	3/4	.005	0.062	.003
200-0875-062-XX†	3/4	7/8	.005	0.062	.003
200-1000-062-XX*	7/8	1	.005	0.062	.003
200-1125-062-XX*	1	1-1/8	.006	0.062	.003
200-1250-062-XX**	1-1/8	1-1/4	.006	0.062	.003
200-1375-062-XX**	1-1/4	1-3/8	.008	0.062	.003
200-1500-062-XX**†	1-3/8	1-1/2	.010	0.062	.003
200-1625-062-XX**†	1-1/2	1-5/8	.012	0.062	.003
200-1750-062-XX**†	1-5/8	1-3/4	.015	0.062	.003
200-2000-062-XX**†	1-7/8	2	.015	0.062	.003
200-2125-062-XX**†	2	2-1/8	.015	0.062	.003
<b>Stock Custom Size</b>					
200-0250-040-XX	.170	1/4	.004	0.040	.003
200-0250-047-XX	.156	1/4	.004	0.047	.003
200-0375-047-XX	.281	3/8	.005	0.047	.003
200-1100-050-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® 200 FEP

Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

## ALTAFLUOR® 200 - FEP TUBING

PART NUMBER	ID	OD	+/-	WALL	+/-
<b>Metric Sizes</b>					
200-0157-040-XX	.079	.157	.005	0.040	.003
	2mm	4mm		1mm	
200-0197-040-XX†	.118	.197	.005	0.040	.003
	3mm	5mm		1mm	
200-0236-040-XX	.157	.236	.005	0.040	.003
	4mm	6mm		1mm	
200-0276-040-XX†	.197	.276	.005	0.040	.003
	5mm	7mm		1mm	
200-0315-040-XX	.236	.315	.005	0.040	.003
	6mm	8mm		1mm	
200-0354-040-XX†	.276	.354	.005	0.040	.003
	7mm	9mm		1mm	
200-0394-040-XX	.315	.394	.005	0.040	.003
	8mm	10mm		1mm	
200-0433-040-XX†	.354	.433	.005	0.040	.003
	9mm	11mm		1mm	
200-0472-040-XX	.394	.472	.005	0.040	.003
	10mm	12mm		1mm	
200-0512-040-XX†	.433	.512	.005	0.040	.003
	11mm	13mm		1mm	
200-0551-040-XX	.472	.551	.005	0.040	.003
	12mm	14mm		1mm	
200-0630-040-XX	.551	.630	.005	0.040	.003
	14mm	16mm		1mm	
200-0354-059-XX†	.236	.354	.005	0.059	.003
	6mm	9mm		1.5mm	
200-0472-059-XX†	.354	.472	.005	0.059	.003
	9mm	12mm		1.5mm	

\* 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.

## ALTAFLUOR® 200 FEP - BEND RADIUS AND WORKING PRESSURE CHART

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 73°F
200-0125-030-XX	0.125	0.030	0.062	1/2"	445
200-0156-030-XX	0.156	0.030	0.094	1/2"	357
200-0188-030-XX	0.188	0.030	0.125	3/4"	296
200-0188-062-XX	0.188	0.062	0.062	1/2"	612
200-0250-030-XX	0.250	0.030	0.188	1"	223
200-0250-040-XX	0.250	0.040	0.170	1"	297
200-0250-047-XX	0.250	0.047	0.156	3/4"	349
200-0250-062-XX	0.250	0.062	0.125	1/2"	460
200-0313-030-XX	0.313	0.030	0.250	1-3/4"	178
200-0313-062-XX	0.313	0.062	0.188	1"	368
200-0375-030-XX	0.375	0.030	0.313	2-1/2"	148
200-0375-062-XX	0.375	0.062	0.250	1"	307
200-0438-030-XX	0.438	0.030	0.375	3-1/2"	127
200-0438-062-XX	0.438	0.062	0.313	2"	263
200-0500-030-XX	0.500	0.030	0.438	6"	111
200-0500-062-XX	0.500	0.062	0.375	2"	230
200-0625-030-XX	0.625	0.030	0.562	6-1/2"	89
200-0625-062-XX	0.625	0.062	0.500	3"	184
200-0750-030-XX	0.750	0.030	0.688	8"	74
200-0750-062-XX	0.750	0.062	0.625	6"	153
200-0875-062-XX	0.875	0.062	0.750	12"	132
200-1000-062-XX	1.000	0.062	0.875	22"	115
200-1125-062-XX	1.125	0.062	1.000	30"	75
200-1250-062-XX	1.250	0.062	1.125	N/A	70
<b>Metric Sizes</b>					
200-0157-040-XX	.157	0.040	.079	1-1/2"	464
	4mm	1mm	2mm		
200-0197-040-XX†	.197	0.040	.118	1-3/4"	380
	5mm	1mm	3mm		
200-0236-040-XX	.236	0.040	.157	2-1/2"	312
	6mm	1mm	4mm		
200-0276-040-XX†	.276	0.040	.197	2-1/2"	274
	7mm	1mm	5mm		
200-0315-040-XX	.315	0.040	.236	2-3/4"	234
	8mm	1mm	6mm		
200-0354-040-XX†	.354	0.040	.276	2-3/4"	210
	9mm	1mm	7mm		
200-0394-040-XX	.394	0.040	.315	2-3/4"	187
	10mm	1mm	8mm		
200-0433-040-XX†	.433	0.040	.354	4"	170
	11mm	1mm	9mm		
200-0472-040-XX	.472	0.040	.394	4"	156
	12mm	1mm	10mm		
200-0512-040-XX†	.512	0.040	.433		
	13mm	1mm	11mm		
200-0551-040-XX	.551	0.040	.472		
	14mm	1mm	12mm		
200-0630-040-XX	.630	0.040	.551		
	16mm	1mm	14mm		
200-0354-059-XX†	.354	0.059	.236	1"	290
	9mm	1.5mm	6mm		
200-0472-059-XX†	.472	0.059	.354	2"	220
	12mm	1.5mm	9mm		



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Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

## ALTAFLUOR® 200 SERIES FEP - 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

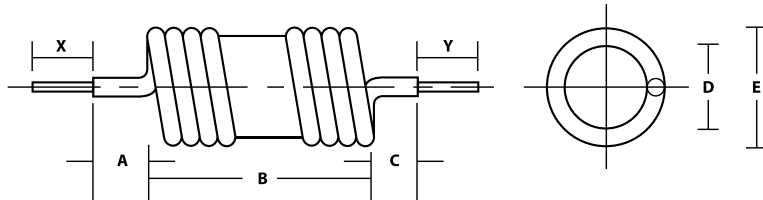
NOTE: The values represented are based on the use of 100% virgin grade high performance - low melt flow FEP resin as used in the production of ALTAFLUOR® 200 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

## ALTAFLUOR® 200 FEP - SCHEDULE 40 PIPE

PART NUMBER	NOMINAL SIZE	ACTUAL OD	WALL	STOCK LENGTH
200-0540-088-0C	1/4"	.540" ± .010	.088" +.020, -0	10 FT
200-0840-109-0C	1/2"	.840" ± .010	.109" +.020, -0	10 FT
200-1050-113-0C	3/4"	1.050" ± .010	.113" +.020, -0	10 FT
200-1315-133-0C	1"	1.315" ± .010	.133" +.020, -0	10 FT
200-1660-140-0C*	1-1/4"	1.660" ± .015	.140" +.020, -0	10 FT
200-1900-145-0C*	1-1/2"	1.900" ± .015	.145" +.020, -0	10 FT
200-2375-154-0C*	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® 200 FEP - COILED HOSE



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

## ALTAFLUOR® 200 FEP - STANDARD CONVOLUTED CONSTRUCTION

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
20C-0375-020-XX*	3/8	0.251	0.275	0.375	0.020	6
20C-0500-023-XX*	1/2	0.364	0.375	0.500	0.023	6
20C-0625-025-XX*	5/8	0.485	0.500	0.625	0.025	5.5
20C-0750-025-XX*	3/4	0.608	0.625	0.750	0.025	5
20C-0875-025-XX*	7/8	0.730	0.750	0.875	0.025	4
20C-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® 200 Ultra-Flex for stock items.

## ALTAFLUOR® 200 FEP - ULTRA FLEX CONVOLUTED CONSTRUCTION

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
20U-0375-020-XX	3/8	0.251	0.275	0.375	0.020	9
20U-0500-023-XX	1/2	0.364	0.375	0.500	0.023	9
20U-0625-025-XX	5/8	0.485	0.500	0.625	0.025	9
20U-0750-025-XX	3/4	0.608	0.625	0.750	0.025	8
20U-1000-025-XX	1	0.860	0.875	1.000	0.025	8



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