

# 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 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 coiled hose, convoluted and heat-shrink constructions

## APPLICATIONS

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

## SPECIFICATIONS

**General:** Meets or exceeds the requirements listed in ASTM D 3296 and ASTM D 2116

**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	+/-
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
200-0250-040-XX	.170	1/4	.004	0.040	.003
200-0250-047-XX	.156	1/4	.004	0.047	.003
200-0188-062-XX	1/16	3/16	.005	0.062	.003
200-0250-062-XX	1/8	1/4	.005	0.062	.003
200-0375-062-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**	1.250	1.375	.008	0.062	.003
200-1500-062-XX**	1.375	1.500	.010	0.062	.003
200-2000-062-XX**	1.875	2.000	.010	0.062	.003
200-2125-062-XX**	2.000	2.125	.010	0.062	.003

\* Custom item - please consult factory 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. Please contact Altaflo office for details. Stocked in natural color - please consult factory for details on available colors.



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ALTAFLUOR® is a registered trademark of Altaflo LLC

TEFLON™ is a brand of Chemours

NEOFLO® is a registered trademark of Daikin

KYNAR® and KYNAR FLEX® are registered trademarks of Arkema Inc.

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 - 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	0.157	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	N/A	75
200-1250-062-XX	1.250	0.062	1.125	N/A	70
METRIC SIZES	ID	OD	ID	BEND RADIUS	WORKING PRESSURE @ 73°F
200-0157-040-XX	0.157	0.040	0.078	1-1/2"	464
	4mm	1mm	2mm		
200-0236-040-XX	0.236	0.040	0.157	1-3/4"	309
	6mm	1mm	4mm		
200-0315-040-XX	0.315	0.040	0.236	2-1/2"	232
	8mm	1mm	6mm		
200-0394-040-XX	0.394	0.040	0.315	2-3/4"	186
	10mm	1mm	8mm		
200-0472-040-XX	0.472	0.040	0.394	4"	155
	12mm	1mm	10mm		

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. Please consult factory for details. For an estimate on burst pressure at ambient temperature we consider a 3:1 ratio when exposure temperature is 73° F. However Altaflo does not recommend exceeding the suggested Working Pressure listed.

#### 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 above 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.



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## ALTAFLUOR® 200 FEP - TUBING

PART NUMBER METRIC SIZES	ID	OD	+/-	WALL	+/-
200-0157-040-XX	2mm	4mm		1mm	
	.078	.157	.005	0.040	.003
200-0197-040-XX	3mm	5mm		1mm	
	.118	.197	.005	0.040	.003
200-0236-040-XX	4mm	6mm		1mm	
	.157	.236	.005	0.040	.003
200-0276-040-XX	5mm	7mm		1mm	
	.197	.276	.005	0.040	.003
200-0315-040-XX	6mm	8mm		1mm	
	.236	.315	.005	0.040	.003
200-0354-040-XX	7mm	9mm		1mm	
	.276	.354	.005	0.040	.003
200-0394-040-XX	8mm	10mm		1mm	
	.315	.394	.005	0.040	.003
200-0433-040-XX	9mm	11mm		1mm	
	.354	.433	.005	0.040	.003
200-0472-040-XX	10mm	12mm		1mm	
	.394	.472	.005	0.040	.003
200-0551-040-XX	12mm	14mm		1mm	
	.472	.551	.005	0.040	.003
200-0630-040-XX	14mm	16mm		1mm	
	.551	.630	.005	0.040	.003
200-0354-059-XX	6mm	9mm		1.5mm	
	.236	.354	.005	0.059	.003
200-0472-059-XX	9mm	12mm		1.5mm	
	.354	.472	.005	0.059	.003

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 - 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

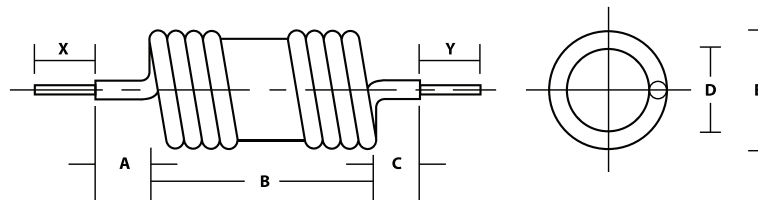
PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
20U-0375-020-XX	3/8	0.251	0.275	0.375	0.020	9
20U-0500-023-XX	1/2	0.364	0.375	0.500	0.023	9
20U-0625-025-XX	5/8	0.485	0.500	0.625	0.025	9
20U-0750-025-XX	3/4	0.608	0.625	0.750	0.025	8
20U-0875-025-XX	7/8	0.730	0.750	0.875	0.025	8
20U-1000-025-XX	1	0.860	0.875	1.000	0.025	8

## ALTAFLUOR® 200 FEP - SCHEDULE 40 PIPE

PART NUMBER	NOMINAL SIZE	ACTUAL SIZE	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.



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