

Fractional Catalog Tubing

PTFE, FEP, PFA, and ETFE Tubing

Overview-

As the world's leader in polymer extrusions, Zeus provides advanced extruded tubing for various industries, including medical, aerospace, electrical, fiber optics, oil and gas, and more. From lubricity and flexibility to mechanical strength, chemical resistance, and more, our tubing products are an ideal choice for a wide variety of applications.

Zeus offers standard fractional catalog sizing in various high-performance resins, including PTFE, FEP, PFA, and ETFE. Our fractional tubing products are available in a range of sizes and wall thicknesses to meet the needs of multiple industry applications.

Our fractional catalog tubing is supplied in natural color unless otherwise specified. Custom colors are available on request. UL-224 and/or CAN/CSA product is also available upon request.



Request a sample of our fractional catalog tubing by contacting a sales representative today.

APPLICATIONS

- Aerospace
- Energy
- Oil & Gas
- Fiber Optics
- Fluid Management
- Medical

CAPABILITIES AND SIZING

- Available resins include PTFE, FEP, PFA, and ETFE
- Fractional sizes 1/8" to 1-1/2" (3.18 mm to 39.37 mm)
- Standard, Thin, and Lightweight walls
- Tolerances low as $\pm 0.003"$ (± 0.08 mm)

KEY PROPERTIES

- Resin-dependent temperatures up to 500 °F / 260 °C
- Chemical resistance
- Lubricity, optical clarity, and flexibility vary, depending on resin



COEFFICIENT OF FRICTION



CHEMICAL RESISTANCE



CONTINUOUS SERVICE TEMP



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DIMENSIONS (INCHES)									
INSIDE DIAMETER				WALL DIMENSIONS					
FRACTIONAL SIZE (ID)	MIN. in.	NOM. in.	MAX. in.	STANDARD WALL		THIN WALL		LIGHTWEIGHT WALL	
				NOM. in.	TOL. in.	NOM. in.	TOL. in.	NOM. in.	TOL. in.
1/8	0.120	0.125	0.130	0.020	±0.004	0.015	±0.003	-	-
1/8	0.125	0.130	0.135	-	-	-	-	0.008	±0.002
3/16	0.188	0.192	0.198	0.020	±0.004	0.015	±0.003	0.010	±0.003
1/4	0.250	0.255	0.260	0.020	±0.004	0.015	±0.003	0.010	±0.003
5/16	0.313	0.321	0.332	0.020	±0.004	0.015	±0.003	0.012	±0.003
3/8	0.375	0.387	0.394	0.025	±0.005	0.015	±0.003	0.015	±0.005
7/16	0.438	0.451	0.458	0.025	±0.005	0.018	±0.004	0.018	±0.005
1/2	0.500	0.515	0.520	0.025	±0.005	0.018	±0.004	0.018	±0.005
5/8	0.625	0.643	0.650	0.025	±0.005	0.020	±0.004	0.020	±0.005
3/4	0.750	0.772	0.775	0.030	±0.006	0.025	±0.005	0.020	±0.005
7/8	0.875	0.902	0.927	0.035	±0.007	-	-	-	-
1	1.000	1.030	1.060	0.035	±0.007	-	-	-	-
1-1/4	1.250	1.287	1.325	0.040	±0.007	-	-	-	-
1-1/2	1.500	1.550	1.580	0.045	±0.007	-	-	-	-

DIMENSIONS (mm)									
INSIDE DIAMETER				WALL DIMENSIONS					
FRACTIONAL SIZE (ID)	MIN. mm	NOM. mm	MAX. mm	STANDARD WALL		THIN WALL		LIGHTWEIGHT WALL	
				NOM. mm	TOL. mm	NOM. mm	TOL. mm	NOM. mm	TOL. mm
1/8	3.05	3.18	3.30	0.51	±0.10	0.38	±0.08	-	-
1/8	3.18	3.30	3.43	-	-	-	-	0.20	±0.05
3/16	4.78	4.88	5.03	0.51	±0.10	0.38	±0.08	0.25	±0.08
1/4	6.35	6.48	6.60	0.51	±0.10	0.38	±0.08	0.25	±0.08
5/16	7.95	8.15	8.43	0.51	±0.10	0.38	±0.08	0.30	±0.08
3/8	9.53	9.83	10.01	0.64	±0.13	0.38	±0.08	0.38	±0.13
7/16	11.13	11.46	11.63	0.64	±0.13	0.46	±0.10	0.46	±0.13
1/2	12.70	13.08	13.21	0.64	±0.13	0.46	±0.10	0.46	±0.13
5/8	15.88	16.33	16.51	0.64	±0.13	0.51	±0.10	0.51	±0.13
3/4	19.05	19.61	19.69	0.76	±0.15	0.64	±0.13	0.51	±0.13
7/8	22.23	22.91	23.55	0.89	±0.18	-	-	-	-
1	25.40	26.16	26.92	0.89	±0.18	-	-	-	-
1-1/4	31.75	32.69	33.66	1.02	±0.18	-	-	-	-
1-1/2	38.10	39.37	40.13	1.14	±0.18	-	-	-	-

