

American Wire Gauge (AWG) 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 American Wire Gauge (AWG) sizing in various high-performance resins, including PTFE, FEP, PFA, and ETFE. Our AWG tubing products are available in an extensive range of sizes and wall thicknesses to meet the needs of multiple industry applications.

Our AWG 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 AWG tubing by contacting a sales representative today.

APPLICATIONS

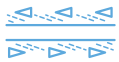
- Aerospace
- Energy
- Oil & Gas
- Fiber Optics
- Fluid Management
- Medical

CAPABILITIES AND SIZING

- Available resins include PTFE, FEP, PFA, and ETFE
- AWG sizes 0 - 32
- Standard, Thin, and Lightweight walls
- Tolerances low as ± 0.002 " (± 0.05 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)									
AWG SIZE	INSIDE DIAMETER			WALL DIMENSIONS					
	MIN. in.	NOM. in.	MAX. in.	STANDARD WALL		THIN WALL		LIGHTWEIGHT WALL	
				NOM. in.	TOL. in.	NOM. in.	TOL. in.	NOM. in.	TOL. in.
32	0.008	0.010	0.012	0.005	±0.002	0.005	±0.002	-	-
30	0.010	0.012	0.015	0.009	±0.002	0.009	±0.002	0.006	±0.002
28	0.013	0.015	0.018	0.009	±0.002	0.009	±0.002	0.006	±0.002
26	0.016	0.018	0.021	0.009	±0.002	0.009	±0.002	0.006	±0.002
24	0.020	0.022	0.026	0.012	±0.002	0.010	±0.003	0.006	±0.002
23	0.023	0.026	0.029	0.012	±0.002	0.010	±0.003	0.006	±0.002
22	0.025	0.028	0.032	0.012	±0.002	0.010	±0.003	0.006	±0.002
21	0.029	0.032	0.035	0.012	±0.002	0.010	±0.003	0.006	±0.002
20	0.032	0.034	0.038	0.016	±0.003	0.012	±0.003	0.006	±0.002
19	0.036	0.038	0.042	0.016	±0.003	0.012	±0.003	0.006	±0.002
18	0.040	0.042	0.046	0.016	±0.003	0.012	±0.003	0.006	±0.002
17	0.045	0.047	0.052	0.016	±0.003	0.012	±0.003	0.006	±0.002
16	0.051	0.053	0.058	0.016	±0.003	0.012	±0.003	0.006	±0.002
15	0.057	0.059	0.065	0.016	±0.003	0.012	±0.003	0.006	±0.002
14	0.064	0.066	0.072	0.016	±0.003	0.012	±0.003	0.008	±0.002
13	0.072	0.076	0.081	0.016	±0.003	0.012	±0.003	0.008	±0.002
12	0.081	0.085	0.091	0.016	±0.003	0.012	±0.003	0.008	±0.002
11	0.091	0.095	0.101	0.016	±0.003	0.012	±0.003	0.008	±0.002
10	0.102	0.106	0.112	0.016	±0.003	0.012	±0.003	0.008	±0.002
9	0.114	0.118	0.124	0.020	±0.004	0.015	±0.003	0.008	±0.002
8	0.129	0.133	0.139	0.020	±0.004	0.015	±0.003	0.008	±0.002
7	0.144	0.148	0.155	0.020	±0.004	0.015	±0.003	0.008	±0.002
6	0.162	0.166	0.174	0.020	±0.004	0.015	±0.003	0.010	±0.003
5	0.182	0.186	0.195	0.020	±0.004	0.015	±0.003	0.010	±0.003
4	0.204	0.208	0.218	0.020	±0.004	0.015	±0.003	0.010	±0.003
3	0.229	0.234	0.244	0.020	±0.004	0.015	±0.003	0.010	±0.003
2	0.258	0.263	0.273	0.020	±0.004	0.015	±0.003	0.010	±0.003
1	0.289	0.294	0.305	0.020	±0.004	0.015	±0.003	0.010	±0.003
0	0.325	0.330	0.342	0.020	±0.004	0.015	±0.003	0.012	±0.003



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DIMENSIONS (mm)									
AWG SIZE	INSIDE DIAMETER			WALL DIMENSIONS					
	MIN. mm	NOM. mm	MAX. mm	STANDARD WALL		THIN WALL		LIGHTWEIGHT WALL	
				NOM. mm	TOL. mm	NOM. mm	TOL. mm	NOM. mm	TOL. mm
32	0.20	0.25	0.30	0.13	±0.05	0.13	±0.05	-	-
30	0.25	0.30	0.38	0.23	±0.05	0.23	±0.05	0.15	±0.05
28	0.33	0.38	0.46	0.23	±0.05	0.23	±0.05	0.15	±0.05
26	0.41	0.46	0.53	0.23	±0.05	0.23	±0.05	0.15	±0.05
24	0.51	0.56	0.66	0.30	±0.05	0.25	±0.08	0.15	±0.05
23	0.58	0.66	0.74	0.30	±0.05	0.25	±0.08	0.15	±0.05
22	0.64	0.71	0.81	0.30	±0.05	0.25	±0.08	0.15	±0.05
21	0.74	0.81	0.89	0.30	±0.05	0.25	±0.08	0.15	±0.05
20	0.81	0.86	0.97	0.41	±0.08	0.30	±0.08	0.15	±0.05
19	0.91	0.97	1.07	0.41	±0.08	0.30	±0.08	0.15	±0.05
18	1.02	1.07	1.17	0.41	±0.08	0.30	±0.08	0.15	±0.05
17	1.14	1.19	1.32	0.41	±0.08	0.30	±0.08	0.15	±0.05
16	1.30	1.35	1.47	0.41	±0.08	0.30	±0.08	0.15	±0.05
15	1.45	1.50	1.65	0.41	±0.08	0.30	±0.08	0.15	±0.05
14	1.63	1.68	1.83	0.41	±0.08	0.30	±0.08	0.20	±0.05
13	1.83	1.93	2.06	0.41	±0.08	0.30	±0.08	0.20	±0.05
12	2.06	2.16	2.31	0.41	±0.08	0.30	±0.08	0.20	±0.05
11	2.31	2.41	2.57	0.41	±0.08	0.30	±0.08	0.20	±0.05
10	2.59	2.69	2.84	0.41	±0.08	0.30	±0.08	0.20	±0.05
9	2.90	3.00	3.15	0.51	±0.10	0.38	±0.08	0.20	±0.05
8	3.28	3.38	3.53	0.51	±0.10	0.38	±0.08	0.20	±0.05
7	3.66	3.76	3.94	0.51	±0.10	0.38	±0.08	0.20	±0.05
6	4.11	4.22	4.42	0.51	±0.10	0.38	±0.08	0.25	±0.08
5	4.62	4.72	4.95	0.51	±0.10	0.38	±0.08	0.25	±0.08
4	5.18	5.28	5.54	0.51	±0.10	0.38	±0.08	0.25	±0.08
3	5.82	5.94	6.20	0.51	±0.10	0.38	±0.08	0.25	±0.08
2	6.55	6.68	6.93	0.51	±0.10	0.38	±0.08	0.25	±0.08
1	7.34	7.47	7.75	0.51	±0.10	0.38	±0.08	0.25	±0.08
0	8.26	8.38	8.69	0.51	±0.10	0.38	±0.08	0.30	±0.08

