

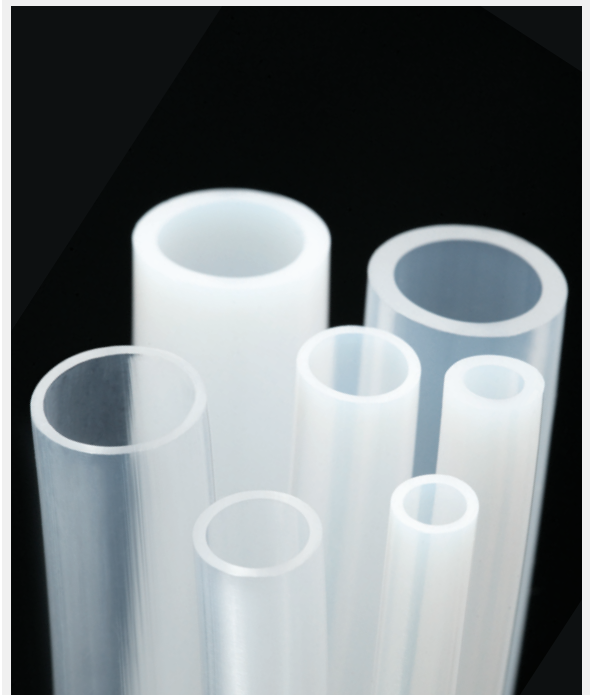
Heavy Wall Tubing

Extruded Tubing - ETFE, FEP, PFA, and PTFE

Overview-

Heavy wall tubing is ideal for applications that need AWG tubing but with an increased wall thickness. This additional wall increases burst pressure and provides added protection against abrasion. Analytical applications rely on the chemical resistance of heavy wall tubing commonly available in ETFE, FEP, PFA, and PTFE. Heavy wall tubing provides the same properties of our typical fluoropolymer tubing but with added strength.

Heavy wall tubing may also be available in other resins than those described above. We have standard sizes in stock and custom sizing available upon request.



Zeus heavy wall tubing is available with greater wall thicknesses giving you a more robust tubing option.

APPLICATIONS

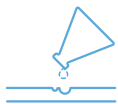
- Fluid management
- Laboratory, analytical tubing
- Industrial tubing
- Medical instruments

CAPABILITIES AND SIZING

- Available in ETFE, FEP, PFA, and PTFE
- AWG size 5 to 24
- Fractional sizes specified by 5/32" ID
- Custom sizes and tolerances

KEY PROPERTIES

- Strength
- Higher burst pressure
- Increased wall thickness
- Abrasion resistance
- Chemical resistance
- High continuous service temperature



CHEMICAL RESISTANCE



COEFFICIENT OF FRICTION



CONTINUOUS SERVICE TEMP



Heavy Wall

Heavy wall tubing is supplied in natural color unless otherwise specified. Heavy wall tubing is available in custom or Zeus standard colors, on coils or spools in long lengths, and as custom cut pieces upon request. Free samples available upon request.

| AWG | INSIDE DIAMETER | | | | | | WALL THICKNESS | | | |
|-----|-----------------|--------|------------|-------|------------|-------|----------------|-------|-----------|---------|
| | ID MINIMUM | | ID NOMINAL | | ID MAXIMUM | | WALL NOMINAL | | TOLERANCE | |
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| 24 | 0.020 | 0.508 | 0.022 | 0.558 | 0.027 | 0.660 | 0.016 | 0.406 | ± 0.003 | ± 0.076 |
| *23 | 0.024 | 0.609 | 0.027 | 0.685 | 0.030 | 0.762 | 0.016 | 0.406 | ± 0.003 | ± 0.076 |
| 22 | 0.025 | 0.635 | 0.029 | 0.723 | 0.032 | 0.812 | 0.016 | 0.406 | ± 0.003 | ± 0.076 |
| *21 | 0.030 | 0.762 | 0.033 | 0.838 | 0.036 | 0.914 | 0.016 | 0.406 | ± 0.003 | ± 0.076 |
| 20 | 0.032 | 0.8128 | 0.036 | 0.914 | 0.040 | 1.016 | 0.018 | 0.457 | ± 0.003 | ± 0.076 |
| 19 | 0.036 | 0.914 | 0.040 | 1.016 | 0.044 | 1.117 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 18 | 0.040 | 1.016 | 0.045 | 1.130 | 0.049 | 1.244 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 17 | 0.045 | 1.143 | 0.050 | 1.257 | 0.054 | 1.371 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 16 | 0.051 | 1.295 | 0.056 | 1.422 | 0.061 | 1.549 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 15 | 0.057 | 1.447 | 0.062 | 1.574 | 0.067 | 1.701 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 14 | 0.064 | 1.625 | 0.069 | 1.752 | 0.074 | 1.879 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 13 | 0.072 | 1.828 | 0.077 | 1.955 | 0.082 | 2.082 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 12 | 0.081 | 2.057 | 0.086 | 2.184 | 0.091 | 2.311 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 11 | 0.091 | 2.311 | 0.096 | 2.438 | 0.101 | 2.565 | 0.020 | 0.508 | ± 0.004 | ± 0.102 |
| 10 | 0.102 | 2.590 | 0.107 | 2.717 | 0.112 | 2.844 | 0.025 | 0.635 | ± 0.005 | ± 0.127 |
| 9 | 0.114 | 2.895 | 0.119 | 3.022 | 0.124 | 3.149 | 0.025 | 0.635 | ± 0.005 | ± 0.127 |
| 8 | 0.129 | 3.276 | 0.135 | 3.429 | 0.141 | 3.581 | 0.030 | 0.762 | ± 0.005 | ± 0.127 |
| 7 | 0.144 | 3.657 | 0.151 | 3.835 | 0.158 | 4.013 | 0.030 | 0.762 | ± 0.005 | ± 0.127 |
| 6 | 0.162 | 4.114 | 0.170 | 4.318 | 0.178 | 4.521 | 0.030 | 0.762 | ± 0.005 | ± 0.127 |
| 5 | 0.182 | 4.622 | 0.190 | 4.826 | 0.198 | 5.029 | 0.032 | 0.812 | ± 0.005 | ± 0.127 |

| FRACTIONAL SIZES SPEC'D BY ID/OD | OD | | ID | | NOMINAL WALL THICKNESS | |
|-------------------------------------|--------|---------------|---------------|---------------|------------------------|-------|
| | in. | mm | in. | mm | in. | mm |
| | 5/32** | 0.250 ± 0.005 | 6.350 ± 0.127 | 0.156 ± 0.005 | 3.962 ± 0.127 | 0.047 |

