

Welded Tubes Specialties

135 Penniman Ave. – Orwell, Ohio 44076 – 440.437.5144

Tight Tolerance Tubing Welded Tubes, inc. standards
for tolerances tighter than ASTM A513 specifications.

Rounds

Outside Diameter Range (in.)	Wall Thickness (inches)	ASTM Specified Tolerance, +/-	Welded Tubes Standard Tolerance, +/-
3/8 to 1/2	.028 to .083	.0035	.003
1/2 to 1 1/8	.028 to .083	.0035	.003
1/2 to 1 1/8	.065 to .083	.0035	.003
1 1/8 to 2	.028 to .120	.005	.003 to .006
1 1/8 to 2	.065 to .120	.005	.003 to .005
2 to 2 1/2	.028 to .120	.006	.005 to .006
2 to 2 1/2	.065 to .120	.006	.005 to .006

Wall Thickness (inches)	ASTM Specified Range (in.)	Welded Tubes Standard Range (in.)
.028	.027 - .033	.026 - .029
.035	.030 - .037	.033 - .036
.039	.033 - .041	.0375 - .0405
.042	.036 - .044	.040 - .044
.049	.043 - .052	.045 - .049
.051	.045 - .054	.051 - .055
.058	.051 - .063	.055 - .059
.065	.058 - .070	.060 - .064
.066	.059 - .071	.063 - .067
.070	.063 - .075	.066 - .070
.078	.071 - .084	.076 - .081
.083	.076 - .089	.080 - .085
.097	.090 - .103	.095 - .105
.109	.101-.115	.103 - .115
.120	.112 - .127	.114 - .126

Other Shapes Squares – 3/8", 1/2", 5/8", 3/4", 13/16", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", 2"

Rectangles – 3/8" x 5/8"
 3/8" x 3/4"
 3/8" x 7/8"
 3/8" x 1"
 3/8" x 1 1/4"
 3/8" x 1 1/2"
 5/8" x 7/8"
 5/8" x 1"
 5/8" x 1 1/8"
 5/8" x 1 1/4"
 5/8" x 1 5/8"

1/2" x 1"
 1/2" x 1 1/4"
 1/2" x 1 1/2"
 1/2" x 2"
 3/4" x 1"
 3/4" x 1 1/2"
 3/4" x 1 3/4"
 3/4" x 2"
 7/8" x 1 1/4"
 1" x 1 1/4"
 1" x 1 1/2"
 1" x 2"
 .312" x 1 1/14"

Flat Ovals – .410" x 1.261"
 .633" x 1.250"
 .500" x 2 1/4"
 .875" x 2.220"
 .313" x 2.750"

Octagon – 1 1/2"

Extreme t/D Ratios

Welded Tubes, Inc. can produce hard to make t/D ratios.

- 10mm OD with a 2mm wall – t/D ratio is .200 – **Small OD – Heavy Wall**
- .375" OD with a .083" wall – t/D ratio is .221 – **Small OD – Heavy Wall**
- 2.500" OD with a .028" wall – t/D ratio is .0112 – **Large OD – Thin Wall**

Metric Tubing

Welded Tubes, Inc. is also equipped and tooled for several metric sizes ranging from 10mm to 30mm.