

Square / Rectangular Tubing Selection Guide

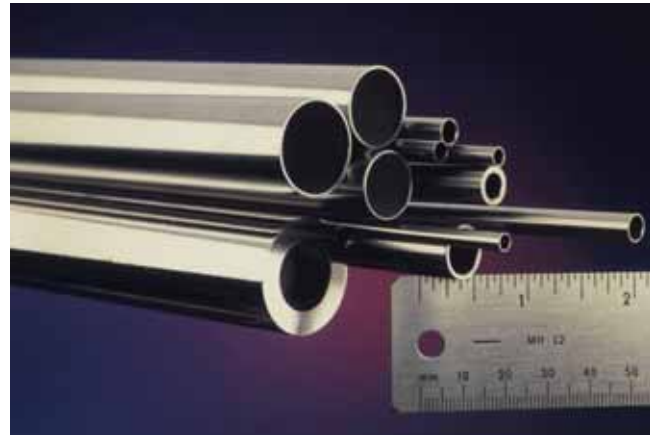
Eagle can re-draw standard tubing to provide you with the exact shape to meet your application requirements. Standard lengths are 10 to 12 feet.



| Standard Tubing Square / Rectangular Sizing Chart | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Available with Wall Thicknesses of .010" .020" .028" .035" | | | | | | | | | | | | |
| | .125 | .187 | .250 | .313 | .375 | .437 | .500 | .625 | .750 | 1.000 | 1.250 | 1.500 |
| .125 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| .187 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .250 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .313 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .375 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .437 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| .625 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| .750 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.000 | | | | | | | | | ✓ | ✓ | ✓ | ✓ |
| 1.250 | | | | | | | | | ✓ | ✓ | ✓ | ✓ |
| 1.500 | | | | | | | | | ✓ | ✓ | ✓ | ✓ |

Tubing Selection Guide

The tubing in the tables below is available in 20 foot random lengths. Eagle Stainless will be pleased to cut your order to shorter lengths as required.



Fractional Stainless Steel Tubing • T304 • Inconel 600™ • T316 • T321 • Monel 400™ • T347

| O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft |
|--------|------|------------|---------------|--------|------|------------|---------------|---------|------|------------|---------------|---------|------|------------|---------------|
| 1/16 | .010 | .042 | .005 | 9/32 | .028 | .225 | .076 | 5/8 | .020 | .585 | .129 | 1-1/8 | .028 | 1.069 | .328 |
| (.062) | .016 | .030 | .008 | (.281) | .035 | .211 | .092 | (.625) | .028 | .569 | .178 | (1.125) | .035 | 1.055 | .407 |
| | .020 | .022 | .009 | | | | | | .035 | .555 | .221 | | .049 | 1.027 | .563 |
| | .028 | .006 | .012 | 5/16 | .016 | .281 | .050 | | .049 | .527 | .301 | | .065 | .995 | .736 |
| | | | | (.313) | .020 | .273 | .062 | | .065 | .495 | .388 | | .095 | .935 | 1.045 |
| 3/32 | .010 | .074 | .009 | | .028 | .257 | .085 | | .083 | .459 | .480 | | .120 | .885 | 1.288 |
| (.094) | .016 | .062 | .015 | | .035 | .243 | .103 | | .095 | .435 | .537 | | .188 | .750 | 1.881 |
| | .020 | .054 | .016 | | .049 | .215 | .138 | | .120 | .385 | .647 | | .250 | .625 | 2.336 |
| | .028 | .038 | .020 | | .065 | .183 | .172 | | .188 | .249 | .877 | | | | |
| | | | | | .083 | .147 | .203 | | | | | 1-1/4 | .028 | 1.194 | .365 |
| 1/8 | .010 | .105 | .015 | | .095 | .123 | .221 | 3/4 | .020 | .710 | .155 | (1.250) | .035 | 1.180 | .454 |
| (.125) | .016 | .093 | .019 | 3/8 | .010 | .355 | .038 | (.750) | .028 | .694 | .215 | | .049 | 1.152 | .628 |
| | .020 | .085 | .022 | (.375) | .016 | .343 | .061 | | .035 | .680 | .267 | | .065 | 1.120 | .822 |
| | .025 | .075 | .025 | | .020 | .335 | .075 | | .049 | .652 | .366 | | .083 | 1.084 | 1.034 |
| | .028 | .069 | .029 | | .028 | .319 | .103 | | .065 | .620 | .475 | | .095 | 1.060 | 1.172 |
| | .035 | .055 | .033 | | .035 | .305 | .127 | | .083 | .584 | .591 | | .109 | 1.032 | 1.328 |
| | .049 | .027 | .040 | | .049 | .277 | .170 | | .095 | .560 | .664 | | .120 | 1.010 | 1.448 |
| | | | | | .065 | .245 | .215 | | .120 | .510 | .807 | | .188 | .875 | 2.132 |
| 5/32 | .010 | .136 | .019 | | .083 | .209 | .258 | | .156 | .438 | .990 | | .250 | .750 | 2.670 |
| (.156) | .016 | .124 | .034 | | .095 | .185 | .284 | | | | | | | | |
| | .020 | .116 | .040 | | .120 | .135 | .326 | 13/16 | .028 | .756 | .235 | 1-3/8 | .035 | 1.305 | .500 |
| | .028 | .100 | .060 | | | | | (.812) | .035 | .742 | .290 | (1.375) | .049 | 1.277 | .693 |
| | .035 | .086 | .082 | 7/16 | .020 | .398 | .089 | | .049 | .714 | .399 | | .065 | 1.245 | .909 |
| | .049 | .058 | .096 | (.438) | .028 | .382 | .123 | | .065 | .682 | .519 | | .120 | 1.135 | 1.608 |
| | | | | | .035 | .368 | .150 | | | | | | .134 | 1.107 | 1.776 |
| 3/16 | .010 | .168 | .019 | | .049 | .340 | .203 | 7/8 | .028 | .819 | .253 | | .188 | 1.000 | 2.383 |
| (.188) | .016 | .156 | .029 | | .065 | .308 | .258 | (.875) | .035 | .805 | .314 | | .250 | .875 | 3.004 |
| | .020 | .148 | .035 | | .083 | .272 | .315 | | .049 | .777 | .432 | | | | |
| | .028 | .132 | .047 | | | | | | .065 | .745 | .562 | 1-1/2 | .028 | 1.444 | .440 |
| | .035 | .118 | .057 | 1/2 | .010 | .480 | .052 | | .083 | .709 | .702 | (1.500) | .035 | 1.430 | .547 |
| | .049 | .090 | .073 | (.500) | .016 | .468 | .082 | | .095 | .685 | .791 | | .049 | 1.402 | .759 |
| | .065 | .058 | .085 | | .020 | .460 | .102 | | .120 | .635 | .968 | | .065 | 1.370 | .996 |
| | | | | | .028 | .444 | .141 | | .156 | .563 | 1.198 | | .083 | 1.334 | 1.256 |
| 7/32 | .016 | .186 | .035 | | .035 | .430 | .173 | | .188 | .499 | 1.379 | | .120 | 1.260 | 1.769 |
| (.218) | .028 | .162 | .056 | | .049 | .402 | .236 | | | | | | .134 | 1.232 | 1.955 |
| | .035 | .148 | .069 | | .065 | .370 | .302 | 1 | .020 | .960 | .209 | | .156 | 1.188 | 2.239 |
| | | | | | .083 | .310 | .418 | (1.000) | .028 | .944 | .290 | | .188 | 1.125 | 2.634 |
| 1/4 | .010 | .230 | .026 | | .095 | .310 | .418 | | .035 | .930 | .360 | | .250 | 1.000 | 3.338 |
| (.250) | .016 | .218 | .040 | | .120 | .260 | .487 | | .049 | .902 | .497 | | .375 | .750 | 4.506 |
| | .020 | .210 | .049 | | | | | | .065 | .870 | .649 | 1-5/8 | .049 | 1.527 | .8248 |
| | .028 | .194 | .066 | 9/16 | .028 | .506 | .160 | | .083 | .834 | .812 | (1.625) | .065 | 1.495 | 1.083 |
| | .035 | .180 | .080 | (.562) | .035 | .492 | .197 | | .095 | .810 | .918 | | .083 | 1.459 | 1.367 |
| | .049 | .152 | .105 | | .049 | .464 | .257 | | .120 | .760 | 1.128 | | .095 | 1.435 | 1.552 |
| | .065 | .120 | .128 | | .065 | .432 | .346 | | .188 | .624 | 1.630 | | .120 | 1.385 | 1.929 |
| | .083 | .084 | .148 | | .095 | .372 | .474 | | .250 | .500 | 2.003 | | .188 | 1.249 | 2.885 |
| | .095 | .060 | .157 | | .125 | .312 | .584 | | | | | | .250 | 1.125 | 3.671 |
| | | | | | | | | | | | | | .375 | .875 | 5.006 |

Tubing Selection Guide

| Fractional Stainless Steel Tubing • T304 • Inconel 600™ • T316 • T321 • Monel 400™ • T347 | | | | | | | | | | | | | | | |
|--|-------|------------|---------------|---------|-------|------------|---------------|---------|-------|------------|---------------|---------|-------|------------|---------------|
| O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft | O.D. | Wall | Theor I.D. | Weight Per Ft |
| 1-3/4 | .049 | 1.652 | .8902 | 2-1/2 | .049 | 2.402 | 1.283 | 3-3/4 | .120 | 3.510 | 4.652 | 5-1/2 | .065 | 5.370 | 3.773 |
| (1.750) | .065 | 1.620 | 1.170 | (2.500) | .065 | 2.370 | 1.690 | (3.750) | .250 | 3.250 | 9.345 | (5.500) | .120 | 5.260 | 6.895 |
| | .120 | 1.510 | 2.089 | | .083 | 2.334 | 2.143 | | .375 | 3.000 | 13.520 | | .250 | 5.000 | 14.020 |
| | .156 | 1.438 | 2.656 | | .095 | 2.310 | 2.440 | | .500 | 2.750 | 17.360 | | .375 | 4.750 | 20.530 |
| | .188 | 1.374 | 3.316 | | .109 | 2.282 | 2.783 | | .625 | 2.500 | 24.030 | | .500 | 4.500 | 26.700 |
| | .250 | 1.250 | 4.005 | | .120 | 2.260 | 3.050 | | | | | | .750 | 4.000 | 38.050 |
| | .375 | 1.000 | 5.507 | | .134 | 2.232 | 3.386 | 4 | .065 | 3.870 | 2.732 | | .875 | 3.750 | 43.220 |
| | .500 | .750 | 6.675 | | .156 | 2.188 | 3.905 | (4.000) | .083P | 3.834 | 3.472 | | 1.000 | 3.500 | 48.060 |
| | | | | | .188 | 2.125 | 4.642 | | .120P | 3.760 | 4.973 | | | | |
| 1-7/8 | .065 | 1.745 | 1.257 | | .250 | 2.000 | 6.008 | | .188 | 3.624 | 7.654 | 6 | .065 | 5.870 | 4.120 |
| (1.875) | .095 | 1.685 | 1.806 | | .375 | 1.750 | 8.511 | | .226P | 3.548 | 9.109 | (6.000) | .083 | 5.834 | 5.245 |
| | .120 | 1.635 | 2.249 | | .500 | 1.500 | 10.680 | | .250 | 3.500 | 10.010 | | .109 | 5.782 | 6.857 |
| | .188 | 1.500 | 3.387 | | .625 | 1.250 | 12.515 | | .318P | 3.364 | 13.180 | | .120 | 5.760 | 7.536 |
| | .250 | 1.375 | 4.339 | | | | | | .375 | 3.250 | 14.520 | | .188 | 5.624 | 11.670 |
| | | | | 2-3/4 | .065 | 2.620 | 1.864 | | .500 | 3.000 | 18.690 | | .250 | 5.500 | 15.350 |
| 2 | .035 | 1.930 | .7345 | (2.750) | .083 | 2.584 | 2.364 | | .625 | 2.750 | 22.530 | | .375 | 5.250 | 22.530 |
| (2.000) | .049 | 1.902 | 1.021 | | .095 | 2.560 | 2.694 | | .636P | 2.728 | 22.850 | | .500 | 5.000 | 29.370 |
| | .065 | 1.870 | 1.343 | | .120 | 2.510 | 3.371 | | .750 | 2.500 | 26.030 | | .625 | 4.750 | 35.880 |
| | .083 | 1.834 | 1.699 | | .188 | 2.375 | 5.144 | | | | | | .750 | 4.500 | 42.050 |
| | .095 | 1.810 | 1.933 | | .250 | 2.250 | 6.675 | 4-1/4 | .065 | 4.120 | 2.905 | | 1.000 | 4.000 | 53.400 |
| | .109 | 1.782 | 2.201 | | .375 | 2.000 | 9.512 | (4.250) | .095 | 4.060 | 4.216 | | | | |
| | .120 | 1.760 | 2.409 | | .500 | 1.750 | 12.015 | | .120 | 3.880 | 5.293 | 6-1/4 | .250 | 5.750 | 16.020 |
| | .134 | 1.732 | 2.671 | | .750 | 1.250 | 16.020 | | .156 | 3.938 | 8.156 | (6.250) | .375 | 5.500 | 23.530 |
| | .156 | 1.688 | 3.072 | | | | | | .250 | 3.750 | 10.680 | | .500 | 5.250 | 30.710 |
| | .188 | 1.625 | 3.638 | 3 | .049 | 2.902 | 1.544 | | .313 | 3.624 | 13.160 | | .750 | 4.750 | 44.060 |
| | .250 | 1.500 | 4.673 | (3.000) | .065 | 2.870 | 2.038 | | .375 | 3.500 | 15.520 | | 1.000 | 4.250 | 56.070 |
| | .375 | 1.250 | 6.508 | | .083 | 2.834 | 2.586 | | .500 | 3.250 | 20.030 | | | | |
| | .500 | 1.000 | 8.010 | | .095 | 2.810 | 2.947 | | .688 | 2.874 | 26.170 | 6-1/2 | .250 | 6.000 | 16.690 |
| | | | | | .109 | 2.782 | 3.366 | | .750 | 2.750 | 28.040 | (6.500) | .375 | 5.750 | 24.530 |
| 2-1/8 | .049 | 2.027 | 1.086 | | .120 | 2.760 | 3.691 | | | | | | .500 | 5.500 | 32.040 |
| (2.125) | .065 | 1.995 | 1.430 | | .134 | 2.732 | 4.102 | 4-1/2 | .065 | 4.370 | 5.840 | | .625 | 5.250 | 39.220 |
| | .095 | 1.935 | 2.060 | | .156 | 2.688 | 4.738 | (4.500) | .120 | 4.260 | 5.613 | | .750 | 5.000 | 46.060 |
| | .120 | 1.885 | 2.570 | | .188 | 2.624 | 5.646 | | .188 | 4.124 | 8.658 | | 1.000 | 4.500 | 58.740 |
| | .188 | 1.750 | 3.889 | | .250 | 2.500 | 7.343 | | .250 | 4.000 | 11.350 | | | | |
| | .250 | 1.625 | 5.006 | | .313 | 2.374 | 8.982 | | .375 | 3.750 | 16.520 | 7 | .250 | 6.500 | 18.020 |
| | .375 | 1.375 | 7.008 | | .375 | 2.250 | 10.510 | | .500 | 3.500 | 21.360 | (7.000) | .375 | 6.000 | 26.530 |
| | .500 | 1.125 | 8.678 | | .500 | 2.000 | 13.350 | | .625 | 3.250 | 25.870 | | .500 | 6.000 | 34.710 |
| | | | | | .625 | 1.750 | 15.850 | | .750 | 3.000 | 30.040 | | .750 | 5.500 | 50.060 |
| 2-1/4 | .049 | 2.152 | 1.152 | | .750 | 1.500 | 18.020 | | .875 | 2.750 | 33.880 | | 1.000 | 5.000 | 64.080 |
| (2.250) | .065 | 2.120 | 1.517 | | | | | 4-3/4 | .120 | 4.510 | 5.934 | | | | |
| | .083 | 2.084 | 1.921 | 3-1/4 | .065 | 3.120 | 2.211 | (4.750) | .188 | 4.374 | 9.160 | 7-1/2 | .250 | 7.000 | 19.360 |
| | .095 | 2.060 | 2.252 | (3.250) | .083 | 3.084 | 2.807 | | .250 | 4.250 | 12.020 | (7.500) | .500 | 6.500 | 37.380 |
| | .120 | 2.010 | 2.730 | | .095 | 3.060 | 3.201 | | .375 | 4.000 | 17.520 | | | | |
| | .188 | 1.874 | 4.140 | | .120 | 3.010 | 4.011 | | .500 | 3.750 | 22.700 | 8 | .120 | 7.760 | 10.100 |
| | .250 | 1.750 | 5.340 | | .188 | 2.874 | 6.148 | | .625 | 3.500 | 27.530 | (8.000) | .250 | 7.500 | 20.690 |
| | .375 | 1.500 | 7.509 | | .250 | 2.750 | 8.010 | | .750 | 3.250 | 32.040 | | .375 | 7.250 | 30.540 |
| | .500 | 1.250 | 9.345 | | .375 | 2.500 | 11.514 | | .875 | 3.000 | 36.210 | | .500 | 7.000 | 40.050 |
| | | | | | .500 | 2.250 | 14.685 | | | | | | .625 | 6.750 | 49.230 |
| 2-3/8 | .065P | 2.245 | 1.604 | | .750 | 1.750 | 20.025 | 5 | .065 | 4.870 | 3.426 | | .750 | 6.500 | 58.070 |
| (2.375) | .083 | 2.209 | 2.032 | | | | | (5.000) | .083 | 4.834 | 4.359 | | 1.000 | 6.000 | 74.760 |
| | .095 | 2.185 | 2.313 | 3-1/2 | .065 | 3.370 | 2.385 | | .120 | 4.760 | 6.254 | | | | |
| | .109P | 2.157 | 2.638 | (3.500) | .083P | 3.334 | 3.029 | | .188 | 4.624 | 9.662 | | | | |
| | .154P | 2.067 | 3.653 | | .120P | 3.260 | 4.332 | | .250 | 4.500 | 12.680 | | | | |
| | .188 | 1.990 | 4.391 | | .188 | 3.124 | 6.650 | | .375 | 4.250 | 18.520 | | | | |
| | .218P | 1.939 | 5.022 | | .216P | 3.068 | 7.756 | | .500 | 4.000 | 24.030 | | | | |
| | .250 | 1.875 | 5.674 | | .250 | 3.000 | 8.678 | | .625 | 3.750 | 29.200 | | | | |
| | .343P | 1.689 | 7.444 | | .300P | 2.900 | 10.250 | | .750 | 3.500 | 34.040 | | | | |
| | .375 | 1.625 | 8.010 | | .375 | 2.750 | 12.520 | | .875 | 3.250 | 38.550 | | | | |
| | .436P | 1.503 | 9.029 | | .500 | 2.500 | 16.020 | | | | | | | | |
| | .500 | 1.375 | 10.010 | | .625 | 2.250 | 19.190 | | | | | | | | |
| | | | | | .750 | 2.000 | 22.030 | | | | | | | | |

Note: Larger sizes are available on request. Please consult factory.

"P" Designates pipe size

Inconel 600™ and Monel 400™ are Trademarks of International Nickel Company

Stainless Steel Piping Products Cold Drawn or Hot Finished

Eagle furnishes a full line of stainless steel pipe, fittings and flanges to handle any problem involving corrosion, temperature or pressure. We serve all major industries including chemical, petrochemical, nuclear, cryogenics, food, paper and pollution control.

In addition to stainless steel, Eagle can provide corrosion resistant piping products in such materials as aluminum, nickel alloys and special alloys.



Ordering Your Piping

Pipe is ordinarily ordered by its nominal diameter (pipe size) and wall thickness which is specified by a schedule number. The convenient Pipe Selection Guide at the right shows schedules with corresponding wall thicknesses as well as weights in pounds per foot of pipe length.

Stainless Steel Pipe

Eagle seamless and welded austenitic stainless steel pipe is **stocked in the annealed and pickled condition**, making it suitable for welding, bending, and fabrication of all kinds.

Permissible size variations are shown in Table 1-2 below.

All Eagle seamless and welded stainless steel pipe can be furnished with complete mill test reports including all chemical and mechanical data. Additional testing, including 100% X-Ray Test, Charpy Test, Dye Penetrant Test, etc., is available at an additional cost.

Seamless Stainless Steel Pipe

Cold drawn and hot finished seamless pipe can be certified to ASTM A-312, ASME SA-312. Selected sizes of cold drawn pipe also meet MIL-P-1144D, which is similar to ASTM A-312, but with the important addition of an acidified copper sulfate test. Hot finished pipe will not meet MIL-P-1144D because of surface finish requirements. When surface finish is not a critical consideration, hot finished pipe is a more economical product.

Cold Drawn Pipe – is available from 1/8" I.P.S. to 8" I.P.S. in all wall thicknesses.

Hot Finished Pipe – is available in selected sizes to meet competitive market conditions.

Welded Stainless Steel Pipe

Eagle welded stainless steel pipe is supplied in the full finished condition. It has been annealed and pickled and meets all aspects of ASTM A-312, ASME SA-312 and MIL-P-1144D. The weld bead has been cold worked to recrystallize the cast structure providing a flush condition on both the O.D. and the I.D. surfaces.

**Table 1-2
Austenitic Stainless Steel Pipe*
Seamless and Welded - Permissible Variations**

| Nominal Pipe Size, Inches | Outside Diameter, Inches | | |
|---------------------------|--------------------------|--------------|--------|
| | Over | Under | Wall |
| 1/8 to 1-1/2, incl. | 1/64 (0.015) | 1/32 (0.031) | |
| Over 1-1/2 to 4, incl. | 1/32 (0.031) | 1/32 (0.031) | |
| Over 4 to 8, incl. | 1/16 (0.062) | 1/32 (0.031) | -12.5% |
| Over 8 to 18, incl. | 3/32 (0.092) | 1/32 (0.031) | |
| Over 18 to 24, incl. | 1/8 (0.125) | 1/32 (0.031) | |

* Note: For dimensions and weights see opposite page.

Pipe Selection Guide

• GREEN Figures - indicate wall thickness in inches • BLACK Figures - indicate weight in pounds/foot (Aluminum pipe weighs roughly one third as much as steel pipe)

Seamless & Welded Stainless Steel Pipe • A.S.A. Pipe Schedules

| Pipe Size | O.D. (Inches) | 5S | 5 | 10S | 10 | 20 | 30 | 40S & Standard | 40 | 60 | 80S & Extra Heavy | 80 | 100 | 120 | 140 | 160 | Double Extra Heavy |
|-----------|---------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------------------|-------|-------|-------|-------|-------|--------------------|
| 1/8 | .405 | | .035 | .049 | .049 | | | .068 | .068 | | .095 | .095 | | | | | |
| | | | .1383 | .1863 | .1863 | | | .2447 | .2447 | | .3145 | .3145 | | | | | |
| 1/4 | .540 | | .049 | .065 | .065 | | | .088 | .088 | | .119 | .119 | | | | | |
| | | | .2570 | .3297 | .3297 | | | .4248 | .4248 | | .5351 | .5351 | | | | | |
| 3/8 | .675 | | .049 | .065 | .065 | | | .091 | .091 | | .126 | .126 | | | | | |
| | | | .3276 | .4235 | .4235 | | | .5676 | .5676 | | .7388 | .7388 | | | | | |
| 1/2 | .840 | .065 | .065 | .083 | .083 | | | .109 | .109 | | .147 | .147 | | | | .187 | .294 |
| | | .5383 | .5383 | .6710 | .6710 | | | .8510 | .8510 | | 1.088 | 1.088 | | | | 1.304 | 1.714 |
| 3/4 | 1.050 | .065 | .065 | .083 | .083 | | | .113 | .113 | | .154 | .154 | | | | .218 | .308 |
| | | .6838 | .6838 | .8527 | .8527 | | | 1.131 | 1.131 | | 1.474 | 1.474 | | | | 1.937 | 2.441 |
| 1 | 1.315 | .065 | .065 | .109 | .109 | | | .133 | .133 | | .179 | .179 | | | | .250 | .358 |
| | | .8678 | .8678 | 1.404 | 1.404 | | | 1.679 | 1.679 | | 2.172 | 2.172 | | | | 2.844 | 3.659 |
| 1-1/4 | 1.660 | .065 | .065 | .109 | .109 | | | .140 | .140 | | .191 | .191 | | | | .250 | .382 |
| | | 1.107 | 1.107 | 1.806 | 1.806 | | | 2.273 | 2.273 | | 2.997 | 2.997 | | | | 3.765 | 5.214 |
| 1-1/2 | 1.900 | .065 | .065 | .109 | .109 | | | .145 | .145 | | .200 | .200 | | | | .281 | .400 |
| | | 1.274 | 1.274 | 2.085 | 2.085 | | | 2.718 | 2.718 | | 3.631 | 3.631 | | | | 4.859 | 6.408 |
| 2 | 2.375 | .065 | .065 | .109 | .109 | | | .154 | .154 | | .218 | .218 | | | | .343 | .436 |
| | | 1.604 | 1.604 | 2.638 | 2.638 | | | 3.653 | 3.653 | | 5.022 | 5.022 | | | | 7.444 | 9.029 |
| 2-1/2 | 2.875 | .083 | .083 | .120 | .120 | | | .203 | .203 | | .276 | .276 | | | | .375 | .552 |
| | | 2.475 | 2.475 | 3.531 | 3.531 | | | 5.793 | 5.793 | | 7.661 | 7.661 | | | | 10.01 | 13.70 |
| 3 | 3.500 | .083 | .083 | .120 | .120 | | | .216 | .216 | | .300 | .300 | | | | .437 | .600 |
| | | 3.029 | 3.029 | 4.332 | 4.332 | | | 7.576 | 7.576 | | 10.25 | 10.25 | | | | 14.32 | 18.58 |
| 3-1/2 | 4.000 | .083 | .083 | .120 | .120 | | | .226 | .226 | | .300 | .300 | | | | .437 | .600 |
| | | 3.472 | 3.472 | 4.973 | 4.973 | | | 9.109 | 9.109 | | 12.51 | 12.51 | | | | | 22.85 |
| 4 | 4.500 | .083 | .083 | .120 | .120 | | | .237 | .237 | .281 | .337 | .337 | .437 | | | .531 | .674 |
| | | 3.915 | 3.915 | 5.613 | 5.613 | | | 10.79 | 10.79 | 12.66 | 14.98 | 14.98 | 19.01 | | | 22.51 | 27.54 |
| 4-1/2 | 5.000 | | | | | | | .247 | | | .355 | | | | | | .710 |
| | | | | | | | | 12.53 | | | 17.61 | | | | | | 32.53 |
| 5 | 5.563 | .109 | .109 | .134 | .134 | | | .258 | .258 | | .375 | .375 | .500 | | | .625 | .750 |
| | | 6.349 | 6.349 | 7.770 | 7.770 | | | 14.62 | 14.62 | | 20.78 | 20.78 | 27.04 | | | 32.96 | 38.55 |
| 6 | 6.625 | .109 | .109 | .134 | .134 | | | .280 | .280 | | .432 | .432 | .562 | | | .718 | .864 |
| | | 7.585 | 7.585 | 9.289 | 9.289 | | | 18.97 | 18.97 | | 28.57 | 28.57 | 36.39 | | | 45.30 | 53.16 |
| 7 | 7.625 | | | | | | | .301 | | | .500 | | | | | | .875 |
| | | | | | | | | 25.57 | | | 38.05 | | | | | | 63.08 |
| 8 | 8.625 | .109 | .109 | .148 | .148 | .250 | .277 | .322 | .322 | .406 | .500 | .500 | .593 | .718 | .812 | .906 | .875 |
| | | 9.914 | 9.914 | 13.40 | 13.40 | 22.36 | 24.70 | 28.55 | 28.55 | 35.64 | 43.39 | 43.39 | 50.87 | 60.93 | 67.76 | 74.69 | 72.42 |
| 9 | 9.625 | | | | | | | .342 | | | .500 | | | | | | |
| | | | | | | | | 33.90 | | | 48.72 | | | | | | |
| 10 | 10.750 | .134 | .134 | .165 | .165 | .250 | .307 | .365 | .365 | .500 | .500 | .593 | .718 | .843 | 1.000 | 1.125 | |
| | | 15.19 | 15.19 | 18.70 | 18.70 | 28.04 | 34.24 | 40.48 | 40.48 | 54.74 | 54.74 | 64.33 | 76.93 | 89.20 | 104.1 | 115.7 | |
| 11 | 11.750 | | | | | | | .375 | | | .500 | | | | | | |
| | | | | | | | | 45.55 | | | 60.07 | | | | | | |
| 12 | 12.750 | .156 | .165 | .180 | .180 | .250 | .330 | .375 | .406 | .562 | .500 | .687 | .843 | 1.000 | 1.125 | 1.312 | |
| | | 21.07 | 22.18 | 24.20 | 24.20 | 33.38 | 43.77 | 49.56 | 53.53 | 73.16 | 65.42 | 88.51 | 107.2 | 125.5 | 139.7 | 160.3 | |
| 14 | 14.000 | .156 | | .188 | .250 | .312 | .375 | .375 | .437 | .593 | .500 | .750 | .937 | 1.093 | 1.250 | 1.406 | |
| | | 23.07 | | 27.73 | 36.71 | 45.68 | 54.57 | 54.57 | 63.37 | 84.91 | 72.09 | 106.1 | 130.7 | 150.7 | 170.2 | 189.1 | |
| 16 | 16.000 | .165 | | .188 | .250 | .312 | .375 | .375 | .500 | .656 | .500 | .843 | 1.031 | 1.218 | 1.437 | 1.593 | |
| | | 27.90 | | 31.75 | 42.05 | 52.36 | 62.58 | 62.58 | 82.77 | 107.5 | 82.77 | 136.5 | 164.8 | 192.3 | 223.5 | 245.1 | |
| 18 | 18.000 | .165 | | .188 | .250 | .312 | .437 | .375 | .562 | .750 | .500 | .937 | 1.156 | 1.375 | 1.562 | 1.781 | |
| | | 31.43 | | 35.76 | 47.39 | 59.03 | 82.06 | 70.59 | 104.8 | 138.2 | 93.45 | 170.8 | 208.0 | 244.1 | 274.2 | 308.5 | |
| 20 | 20.000 | .188 | | .218 | .250 | .375 | .500 | .375 | .593 | .812 | .500 | 1.031 | 1.280 | 1.500 | 1.750 | 1.968 | |
| | | 39.78 | | 46.05 | 52.73 | 78.60 | 104.1 | 78.60 | 122.9 | 166.4 | 104.1 | 208.9 | 256.1 | 296.4 | 341.1 | 379.0 | |
| 24 | 24.000 | .218 | | .250 | .250 | .375 | .562 | .375 | .687 | .968 | .500 | 1.218 | 1.531 | 1.812 | 2.062 | 2.343 | |
| | | 55.37 | | 63.41 | 63.41 | 94.62 | 140.8 | 94.62 | 171.2 | 238.1 | 125.5 | 296.4 | 367.4 | 429.4 | 483.1 | 541.9 | |

Stainless Steel Bar Stock Shipped from Inventory

Eagle furnishes a full line of stainless steel bar stock in rounds, squares and flats.



Ordering Your Bar Stock

Bar is ordinarily ordered by its nominal diameter. The convenient Bar Stock Selection Guide at the right (pages 16–19) shows nominal sizes and provides convenient weight data.

However, for centerless grinding purposes when tolerances are tight, bar stock is generally ordered “oversize” to allow for sufficient material removal.

For example, if grinding 1/4" and 1/2" stock were required, 1/4" oversize and 1/2" oversize would be specified.

Stainless Steel Hollow Bar

Hollow bar is a significant breakthrough in materials availability. The production of parts where a starting tubular shape is more economical than bar stock

can now be effected. The reason for this is that Hollow Bar is available to the bar specifications called for on blueprints. Availability includes AMS, QQ-S and MIL-S grades, as well as ASTM A-511 (for mechanical tubing).

In general, whenever 30% or more material by weight is to be removed from the center of a solid bar, the use of Hollow Bar provides a saving. See table 1-4 below.

Ordering Hollow Bar Stock

Hollow bar stock ordering data can be found in the “Fractional Stainless Steel Tubing Selection Guides” on pages 12 and 13. Keep in mind that hollow bar is manufactured to O.D and wall specifications only – and that the I.D. is theoretical.

| Table 1-3 Hollow Bar Tolerances | |
|---|------------------------|
| Rounds | O.D., Inches |
| All Sizes 1-1/8 through 3" O.D. | ±.005 |
| Standard Sizes 3" O.D. through 3-1/2 O.D. | ±.010 |
| Standard Sizes over 3-1/2 O.D. | ±.015 |
| Non-standard Sizes over 3" O.D. | ±.031 |
| Hexagons | O.D., Inches |
| 1-1/8 O.D. to 2" O.D. exclusive | +.000 / -.006 |
| 2" O.D. to 3" O.D. inclusive | +.000 / -.008 |
| Over 3" O.D. | Refer to Eagle |
| Wall Thickness | |
| .125" to .250" exclusive | ±12/5% of nominal wall |
| .250" and over | ±10% of nominal wall |

| Table 1-4 Comparison of Hollow Bar and Solid Bar Costs by Size | |
|---|--|
| Nominal Bar Size, Inches | Maximum Tube Wall Competitive with Solid Bar, Inches |
| 1 | .125 |
| 1-1/4 | .188 |
| 1-1/2 | .313 |
| 1-3/4 | .375 |
| 2 | .437 |
| 2-1/4 | .500 |
| 2-1/2 | .563 |
| 2-3/4 | .625 |
| 3 | .688 |
| 3-1/4 | .750 |
| 3-1/2 | .813 |
| 3-3/4 | .875 |
| 4-1/4 | .937 |
| 4-1/2 | 1.000 |
| 5 | 1.125 |

Bar Stock Selection Guide

| Round Bar Stock – Stainless Steel • 300 Series • 400 Series | | | | | | | | | | | |
|--|------------------------|------------|-------------|------------------------|------------|-------------|------------------------|------------|-------------|------------------------|------------|
| Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | |
| | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar |
| 1/16 | .010 | .120 | 19/32 | .941 | 11.29 | 1/2 | 6.008 | 72.1 | 4 | 42.73 | 512.8 |
| 5/64 | .016 | .19 | 5/8 | 1.043 | 12.52 | 1.510 | 6.21 | 74.5 | 4.020 | 43.15 | 517.8 |
| 3-32 | .023 | .28 | .630 | 1.060 | 12.72 | 1-17/32 | 6.261 | 75.1 | 4.030 | 43.37 | 520.4 |
| 7/64 | .032 | .38 | .635 | 1.076 | 12.91 | 9/16 | 6.520 | 78.2 | 1/8 | 45.40 | 544.8 |
| 1/8 | .042 | .50 | .640 | 1.093 | 13.12 | 5/8 | 7.051 | 84.6 | 1/4 | 48.23 | 578.7 |
| .130 | .045 | .54 | 41/64 | 1.096 | 13.15 | 11/16 | 7.604 | 91.3 | 3/8 | 21.11 | 613.3 |
| 9/64 | .053 | .64 | 21/32 | 1.150 | 13.80 | 3/4 | 8.178 | 98.1 | 7/16 | 52.58 | 631.0 |
| 5/32 | .065 | .78 | 11/16 | 1.262 | 15.14 | 1.770 | 8.365 | 100.4 | 1/2 | 54.08 | 648.9 |
| 11/64 | .079 | .95 | .6925 | 1.280 | 15.37 | 16/16 | 8.773 | 105.3 | 4.530 | 54.80 | 657.5 |
| 3/16 | .094 | 1.13 | 23/32 | 1.379 | 16.55 | 7/8 | 9.388 | 112.7 | 5/8 | 57.12 | 685.4 |
| .1925 | .099 | 1.19 | 3/4 | 1.502 | 18.02 | 15/16 | 10.02 | 120.2 | 3/4 | 60.25 | 723.0 |
| .1975 | .104 | 1.25 | .755 | 1.522 | 18.26 | 2 – | 10.68 | 128.2 | 7/8 | 63.48 | 761.8 |
| 13/64 | .110 | 1.32 | .760 | 1.540 | 18.48 | 2.020 | 10.896 | 130.7 | 15/16 | 65.10 | 781.2 |
| 7/32 | .128 | 1.54 | 49/64 | 1.565 | 18.78 | 1/16 | 11.36 | 136.3 | 5 – | 66.76 | 801.1 |
| 15/64 | .147 | 1.76 | 25/32 | 1.630 | 19.56 | 1/8 | 12.06 | 144.7 | 1/8 | 70.10 | 841.2 |
| 1/4 | .167 | 2.00 | 13/16 | 1.763 | 21.16 | 3/16 | 12.78 | 153.4 | 1/4 | 73.60 | 883.2 |
| .255 | .174 | 2.08 | .8175 | 1.784 | 21.42 | 1/4 | 13.52 | 162.2 | 3/8 | 77.15 | 925.8 |
| .260 | .181 | 2.17 | 27/32 | 1.901 | 22.81 | 2.270 | 13.76 | 165.1 | 7/16 | 78.95 | 947.4 |
| 17/64 | .188 | 2.26 | 7/8 | 2.044 | 24.5 | 5/16 | 14.28 | 171.4 | 1/2 | 80.78 | 969.4 |
| 9/32 | .211 | 2.53 | .880 | 2.067 | 24.8 | 3/8 | 15.06 | 180.7 | 5/8 | 84.48 | 1013.8 |
| 19/64 | .235 | 2.82 | .885 | 2.091 | 25.1 | 7/16 | 15.87 | 190.4 | 3/4 | 88.29 | 1059.0 |
| 5/16 | .261 | 3.13 | 57/64 | 2.115 | 25.4 | 1/2 | 16.69 | 200.3 | 15/16 | 94.14 | 1130.0 |
| .3175 | .269 | 3.29 | 29/32 | 2.193 | 26.3 | 2.520 | 16.957 | 203.5 | 6 – | 96.13 | 1153.5 |
| .3225 | .277 | 3.32 | 15/16 | 2.347 | 28.2 | 9/16 | 17.53 | 210.4 | 1/8 | 100.2 | 1202.4 |
| 21/64 | .287 | 3.44 | .9425 | 2.372 | 28.5 | 5/8 | 18.40 | 220.8 | 1/4 | 104.3 | 1252.0 |
| 11/32 | .316 | 3.79 | 31/32 | 2.506 | 30.1 | 11/16 | 19.29 | 231.5 | 1/2 | 112.8 | 1353.8 |
| 23/64 | .345 | 4.14 | 1 – | 2.670 | 32.0 | 3/4 | 20.20 | 242.4 | 3/4 | 121.7 | 1460.0 |
| 3/8 | .376 | 4.51 | 1.005 | 2.696 | 32.4 | 2.770 | 20.49 | 245.9 | 7 | 130.9 | 1570.8 |
| .380 | .386 | 4.62 | 1.010 | 2.723 | 32.7 | 13/16 | 21.12 | 253.4 | 1/4 | 140.4 | 1684.8 |
| .385 | .395 | 4.74 | 1/64 | 2.750 | 33.0 | 7/8 | 22.07 | 264.8 | 1/2 | 150.2 | 1802.0 |
| 25/64 | .407 | 4.88 | 1.020 | 2.778 | 33.3 | 15/16 | 23.04 | 276.5 | 3/4 | 160.4 | 1924.8 |
| 13/32 | .441 | 5.29 | 1/16 | 3.014 | 36.2 | 3 – | 24.03 | 288.4 | 8 | 170.9 | 2051.0 |
| 27-64 | .475 | 5.70 | 3/32 | 3.194 | 38.3 | 3.020 | 24.354 | 292.3 | 1/4 | 182.7 | 2180.0 |
| 7/16 | .511 | 6.13 | 1/8 | 3.379 | 40.6 | 1/16 | 25.05 | 300.6 | 1/2 | 192.9 | 2315.0 |
| .4425 | .523 | 6.42 | 1.135 | 3.440 | 41.3 | 1/8 | 26.08 | 312.9 | 3/4 | 204.5 | 2454.0 |
| .4475 | .535 | 6.42 | 9/64 | 3.470 | 41.6 | 3/16 | 27.13 | 325.6 | 9 | 216.3 | 2596.0 |
| 29/64 | .548 | 6.57 | 1.145 | 3.50 | 42.0 | 1/4 | 28.21 | 338.5 | 1/4 | 228.5 | 2741.8 |
| 15/32 | .587 | 7.04 | 5/32 | 3.570 | 42.8 | 3.270 | 28.55 | 342.6 | 1/2 | 241.0 | 2892.0 |
| 31/64 | .626 | 7.51 | 3/16 | 3.766 | 45.2 | 5/16 | 29.30 | 351.6 | 3/4 | 253.8 | 3045.6 |
| 1/2 | .668 | 8.02 | 1/4 | 4.173 | 50.1 | 3/8 | 30.42 | 365.0 | 10 | 267.0 | 3204.0 |
| .505 | .680 | 8.33 | 1.260 | 4.240 | 50.9 | 7/16 | 31.55 | 378.6 | 1/2 | 295.2 | 3542.4 |
| .510 | .694 | 8.33 | 17/64 | 4.276 | 51.3 | 1/2 | 32.71 | 392.5 | 11 | 324.0 | 3888.0 |
| 33/64 | .710 | 8.52 | 1.275 | 4.34 | 52.1 | 3.520 | 33.09 | 397.0 | 1/2 | 354.0 | 4248.0 |
| 17/32 | .754 | 9.05 | 9/32 | 4.384 | 52.6 | 3.530 | 33.27 | 399.3 | 12 | 385.6 | 4626.7 |
| 9/16 | .845 | 10.14 | 5/16 | 4.600 | 55.2 | 5/8 | 35.09 | 421.1 | 1/2 | 420.0 | 5025.0 |
| .5675 | .860 | 10.32 | 3/8 | 5.049 | 60.6 | 11/16 | 36.31 | 435.7 | 13 | 451.3 | 5415.5 |
| .5725 | .875 | 10.50 | 1.385 | 5.218 | 62.6 | 3/4 | 37.55 | 405.6 | 14 | 523.3 | 7512.0 |
| .5775 | .891 | 10.69 | 13/32 | 5.279 | 63.4 | 3.770 | 37.95 | 455.4 | 15 | 601.0 | 7212.0 |
| 37/64 | .892 | 10.69 | 7/16 | 5.518 | 66.2 | 7/8 | 40.10 | 481.2 | 16 | 684.0 | 8208.0 |
| | | | | | | 15/16 | 41.40 | 496.8 | | | |

Bar Stock Selection Guide (continued)

| Flat Bar Stock – Stainless Steel • 300 Series • 400 Series | | | | | | | | | | | |
|---|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|
| Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | |
| | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar |
| 1/8 x 3/16 | .072 | .86 | 3/16 x 6 | 3.825 | 45.90 | 5/16 x 2-3/4 | 2.930 | 35.16 | 7/16 x 3 | 4.460 | 53.5 |
| | .106 | 1.27 | | 8 | 5.100 | | 61.20 | 3 | | 3.188 | 38.26 |
| 5/16 | .133 | 1.60 | 10 | 6.380 | 76.56 | 3-1/2 | 3.719 | 44.63 | 1/2 x 9/16 | .960 | 11.5 |
| | .159 | 1.91 | | 12 | 7.660 | | 91.92 | 4 | | 4.250 | 51.00 |
| 7/16 | .186 | 2.23 | 1/4 x 5/16 | .266 | 3.19 | 4-1/2 | 4.776 | 57.31 | 3/4 | 1.275 | 15.3 |
| | .213 | 2.56 | | 3/8 | .319 | | 3.83 | 5 | | 6.375 | 76.50 |
| 5/8 | .266 | 3.19 | 7/16 | .372 | 4.46 | 6 | 6.375 | 76.50 | 1 | 1.700 | 20.4 |
| | .319 | 3.83 | | 1/2 | .425 | | 5.10 | 8 | | 8.500 | 102.00 |
| 7/8 | .372 | 4.46 | 9/16 | .480 | 5.76 | 10 | 10.630 | 127.50 | 1-1/4 | 2.125 | 25.5 |
| | .425 | 5.10 | | 5/8 | .531 | | 6.37 | 12 | | 12.750 | 153.00 |
| 1-1/8 | .480 | 5.76 | 3/4 | .628 | 7.66 | 3/8 x 7/16 | .576 | 6.91 | 1-1/2 | 2.550 | 30.6 |
| | .531 | 6.37 | | 7/8 | .744 | | 8.93 | 1/2 | | .638 | 7.07 |
| 1-3/8 | .588 | 7.06 | 1 | .850 | 10.20 | 9/16 | .720 | 8.64 | 1-3/4 | 2.975 | 35.7 |
| | .638 | 7.66 | | 1-1/8 | .956 | | 11.47 | 5/8 | | .797 | 9.56 |
| 1-5/8 | .696 | 8.35 | 1-1/4 | 1.063 | 12.76 | 3/4 | .956 | 11.47 | 2-1/4 | 3.825 | 45.9 |
| | .744 | 8.93 | | 1-3/8 | 1.160 | | 13.90 | 7/8 | | 1.116 | 13.39 |
| 2 | .850 | 10.20 | 1-1/2 | 1.275 | 15.30 | 1 | 1.275 | 15.30 | 2-3/4 | 4.675 | 56.1 |
| | .956 | 11.47 | | 1-5/8 | 1.380 | | 16.56 | 1-1/8 | | 1.430 | 17.16 |
| 2-1/2 | 1.063 | 12.76 | 1-3/4 | 1.488 | 17.86 | 1-1/4 | 1.594 | 19.13 | 3-1/4 | 5.524 | 66.2 |
| | 1.160 | 13.90 | | 2 | 1.700 | | 20.40 | 1-3/8 | | 1.750 | 21.00 |
| 3 | 1.275 | 15.30 | 2-1/4 | 1.913 | 22.96 | 1-1/2 | 1.913 | 22.96 | 4 | 6.800 | 81.6 |
| | 1.380 | 16.56 | | 2-1/2 | 2.125 | | 25.50 | 1-5/8 | | 2.080 | 24.96 |
| 3-1/2 | 1.488 | 17.86 | 2-3/4 | 2.340 | 28.08 | 1-3/4 | 2.231 | 26.77 | 5 | 8.500 | 102.0 |
| | 1.700 | 20.40 | | 3 | 2.550 | | 30.60 | 2 | | 2.550 | 30.60 |
| 4-1/2 | 1.913 | 22.96 | 3-1/4 | 2.760 | 33.12 | 2-1/4 | 2.869 | 34.43 | 6 | 10.200 | 122.4 |
| | 2.125 | 25.50 | | 3-1/2 | 2.975 | | 35.70 | 2-1/2 | | 3.188 | 38.26 |
| 6 | 2.550 | 30.60 | 4 | 3.400 | 40.80 | 2-3/4 | 3.500 | 42.00 | 7 | 11.904 | 142.8 |
| | .160 | 1.92 | | 4-1/2 | 3.825 | | 45.90 | 3 | | 3.825 | 45.90 |
| 5/16 | .199 | 2.39 | 5 | 4.250 | 51.00 | 3-1/4 | 4.140 | 49.68 | 9 | 15.360 | 184.3 |
| | .239 | 2.87 | | 5-1/2 | 4.680 | | 56.20 | 3-1/2 | | 4.463 | 53.56 |
| 7/16 | 2.79 | 3.35 | 6 | 5.100 | 61.20 | 4 | 5.100 | 61.20 | 12 | 20.400 | 244.8 |
| | .319 | 3.83 | | 7 | 5.950 | | 71.40 | 4-1/2 | | 5.738 | 68.86 |
| 5/8 | .398 | 4.78 | 8 | 6.800 | 81.60 | 5 | 6.375 | 76.50 | 3/4 | 1.440 | 17.3 |
| | .478 | 5.74 | | 10 | 8.500 | | 102.00 | 5-1/2 | | 7.010 | 84.10 |
| 7/8 | .558 | 6.70 | 12 | 10.200 | 122.40 | 6 | 7.650 | 91.80 | 1-1/4 | 2.390 | 28.7 |
| | .638 | 7.66 | | 14 | 11.900 | | 142.80 | 7 | | 8.928 | 107.10 |
| 1-1/8 | .717 | 8.60 | 5/16 x 3/8 | .398 | 4.78 | 8 | 10.200 | 122.40 | 2 | 3.830 | 46.0 |
| | .797 | 9.56 | | 7/16 | .460 | | 5.52 | 10 | | 12.750 | 153.00 |
| 1-3/8 | .877 | 10.52 | 1/2 | .531 | 6.37 | 12 | 15.300 | 183.60 | 7/8 | 1.859 | 22.3 |
| | .956 | 11.47 | | 5/8 | .664 | | 7.97 | 14 | | 17.856 | 214.30 |
| 1-3/4 | 1.116 | 13.39 | 3/4 | .797 | 9.56 | 7/16 x 1/2 | .744 | 8.93 | 1-1/8 | 2.390 | 28.6 |
| | 1.275 | 15.30 | | 7/8 | .930 | | 11.16 | 5/8 | | .929 | 11.15 |
| 2-1/4 | 1.440 | 17.28 | 1 | 1.063 | 12.76 | 3/4 | 1.116 | 13.39 | 1-3/8 | 2.930 | 35.2 |
| | 1.594 | 19.13 | | 1-1/8 | 1.200 | | 14.40 | 7/8 | | 1.344 | 16.13 |
| 2-3/4 | 1.750 | 21.00 | 1-1/4 | 1.328 | 15.94 | 1 | 1.488 | 17.86 | 1-5/8 | 3.454 | 41.5 |
| | 1.913 | 22.96 | | 1-1/2 | 1.594 | | 19.13 | 1-1/4 | | 1.859 | 22.31 |
| 3-1/2 | 2.231 | 26.77 | 1-3/4 | 1.859 | 22.31 | 1-1/2 | 2.231 | 26.77 | 2 | 4.250 | 51.0 |
| | 2.550 | 30.60 | | 2 | 2.125 | | 25.50 | 1-3/4 | | 2.600 | 31.20 |
| 4-1/2 | 2.870 | 34.40 | 2-1/4 | 2.390 | 28.65 | 2 | 2.975 | 35.70 | 2-1/2 | 5.313 | 63.8 |
| | 3.188 | 38.26 | | 2-1/2 | 2.656 | | 31.86 | 2-1/2 | | 3.720 | 44.60 |

Bar Stock Selection Guide (continued)

| Flat Bar Stock – Stainless Steel • 300 Series • 400 Series | | | | | | | | | | | |
|---|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|
| Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | |
| | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar |
| 5/8 x 3 | 6.375 | 76.5 | 6-1/2 | 16.560 | 198.7 | 1-5/8 | 5.235 | 66.3 | 6 | 40.80 | 489.6 |
| 3-1/2 | 7.438 | 89.3 | 7 | 17.880 | 214.6 | 1-3/4 | 5.950 | 71.4 | 7 | 47.60 | 571.2 |
| 4 | 8.500 | 102.0 | 8 | 20.400 | 244.8 | 2 | 6.800 | 81.2 | 8 | 54.40 | 652.8 |
| 4-1/2 | 9.560 | 114.7 | 9 | 22.920 | 275.0 | 2-1/4 | 7.650 | 92.3 | 9 | 61.20 | 734.4 |
| 5 | 10.630 | 127.6 | 10 | 25.500 | 306.0 | 2-1/2 | 8.500 | 102.0 | 2 x 10 | 68.00 | 816.0 |
| 5-1/2 | 11.690 | 140.3 | 12 | 30.600 | 367.2 | 5-1/2 | 28.08 | 337.0 | 12 | 81.60 | 979.2 |
| 6 | 12.750 | 153.0 | 14 | 35.760 | 429.1 | 6 | 30.60 | 367.2 | 2-1/4 x 2-1/2 | 19.07 | 228.8 |
| 7 | 14.880 | 178.6 | 7/8 x 1 | 2.975 | 35.7 | 7 | 35.70 | 428.4 | 3 | 22.90 | 274.8 |
| 8 | 17.000 | 204.0 | 1-1/8 | 3.350 | 40.2 | 8 | 40.80 | 489.6 | 4 | 30.60 | 367.2 |
| 9 | 19.080 | 229.0 | 1-1/4 | 3.719 | 44.6 | 10 | 51.00 | 612.0 | 4-1/2 | 34.42 | 413.0 |
| 10 | 21.250 | 255.0 | 1-3/8 | 4.090 | 49.0 | 12 | 61.20 | 734.4 | 5 | 38.28 | 459.4 |
| 12 | 25.500 | 306.0 | 1-1/2 | 4.463 | 53.6 | 1-3/4 x 2 | 11.90 | 142.8 | 6 | 45.80 | 549.6 |
| 3/4 x 7/8 | 2.230 | 26.8 | 1-3/4 | 5.206 | 62.5 | 2-1/4 | 13.44 | 161.3 | 2-1/2 x 3 | 25.50 | 306.0 |
| 1 | 2.550 | 30.6 | 2 | 5.950 | 71.4 | 2-1/2 | 14.88 | 178.6 | 3-1/2 | 29.75 | 357.0 |
| 1-1/8 | 2.880 | 34.6 | 2-1/4 | 6.696 | 80.4 | 2-3/4 | 16.32 | 195.8 | 4 | 34.00 | 408.0 |
| 1-1/4 | 3.188 | 38.3 | 2-1/2 | 7.438 | 89.3 | 3 | 17.85 | 214.2 | 4-1/2 | 38.25 | 459.0 |
| 1-3/8 | 3.500 | 42.0 | 2-3/4 | 8.180 | 98.2 | 3-1/2 | 20.88 | 250.6 | 5 | 42.50 | 510.0 |
| 1-1/2 | 3.825 | 45.9 | 3 | 8.925 | 107.0 | 4 | 29.76 | 357.2 | 6 | 51.00 | 612.0 |
| 1-5/8 | 4.140 | 49.7 | 7/8 x 3-1/2 | 10.410 | 124.9 | 5 | 29.76 | 357.2 | 8 | 68.00 | 816.0 |
| 1-3/4 | 4.463 | 53.6 | 4 | 11.900 | 142.8 | 6 | 35.70 | 428.4 | 12 | 102.00 | 1224.0 |
| 2 | 5.100 | 61.2 | 4-1/2 | 13.440 | 161.3 | 8 | 47.60 | 571.0 | 3 x 3-1/2 | 35.76 | 429.1 |
| 2-1/4 | 5.738 | 68.9 | 5 | 14.880 | 178.6 | 10 | 59.52 | 714.2 | 4 | 40.80 | 489.6 |
| 2-1/2 | 6.375 | 76.6 | 6 | 17.850 | 214.2 | 12 | 71.40 | 856.8 | 4-1/2 | 45.90 | 551.0 |
| 2-3/4 | 7.000 | 84.0 | 7 | 20.880 | 250.6 | 2 x 2-1/4 | 15.36 | 184.3 | 5 | 51.00 | 612.0 |
| 3 | 7.650 | 91.8 | 8 | 23.800 | 285.6 | 2-1/2 | 17.00 | 204.0 | 6 | 61.20 | 734.4 |
| 3-1/4 | 8.290 | 99.5 | 10 | 29.750 | 357.0 | 2-3/4 | 18.72 | 224.6 | 8 | 81.60 | 979.2 |
| 3-1/2 | 8.925 | 107.0 | 12 | 35.700 | 428.4 | 3 | 20.40 | 244.8 | 3-1/2 x 4 | 47.60 | 571.0 |
| 4 | 10.200 | 122.4 | 14 | 41.760 | 501.1 | 3-1/2 | 23.80 | 285.6 | 5 | 59.50 | 714.0 |
| 4-1/2 | 11.470 | 137.6 | 1 x 1-1/8 | 3.828 | 46.0 | 4 | 27.20 | 326.0 | 6 | 71.40 | 857.0 |
| 5 | 12.750 | 153.0 | 1-1/4 | 4.250 | 51.0 | 4-1/2 | 30.60 | 367.0 | 4 x 5 | 68.04 | 816.5 |
| 5-1/2 | 14.040 | 168.5 | 1-3/8 | 4.680 | 56.2 | 5 | 34.00 | 408.0 | 6 | 81.60 | 979.2 |
| 6 | 15.300 | 186.3 | 1-1/2 | 5.100 | 61.2 | 5-1/2 | 37.44 | 449.3 | 8 | 108.84 | 1306.1 |

| Square Bar Stock – Stainless Steel • 300 Series • 400 Series | | | | | | | | | | | |
|---|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|----------------|------------------------|------------|
| Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | | Size Inches | Estimated Weight, Lbs. | |
| | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar | | Per Foot | 12 Ft. Bar |
| 1/8 | .053 | .640 | 11/16 | 1.607 | 19.280 | 1 5/16 | 5.857 | 70.28 | 2 1/2 | 21.25 | 255.0 |
| 5/32 | .083 | .996 | 3/4 | 1.913 | 22.960 | 1 3/8 | 6.428 | 77.14 | 2 3/4 | 25.71 | 308.5 |
| 3/16 | .120 | 1.440 | 13/16 | 2.245 | 26.940 | 1 1/2 | 7.650 | 91.80 | 3 | 30.60 | 367.2 |
| 1/4 | .213 | 2.560 | 7/8 | 2.603 | 31.240 | 1 5/8 | 8.980 | 107.70 | 3 1/2 | 41.65 | 500.0 |
| 5/16 | .332 | 3.980 | 15/16 | 2.988 | 35.856 | 1 3/4 | 10.410 | 124.90 | 4 | 54.40 | 652.8 |
| 3/8 | .478 | 5.740 | 1 | 3.400 | 40.80 | 1 7/8 | 11.950 | 143.40 | 4 1/2 | 68.85 | 826.2 |
| 7/16 | .651 | 7.810 | 1/16 | 3.840 | 46.08 | 2 | 13.600 | 163.20 | 5 | 85.00 | 1020.0 |
| 1/2 | .850 | 10.200 | 1 1/8 | 4.303 | 51.64 | 2 1/8 | 15.350 | 184.20 | 5 1/2 | 102.90 | 1234.0 |
| 9/16 | 1.076 | 12.910 | 1 3/16 | 4.795 | 57.54 | 2 1/4 | 17.21 | 206.60 | 6 | 122.40 | 1469.0 |
| 5/8 | 1.328 | 15.940 | 1 1/4 | 5.313 | 63.76 | 2 3/8 | 19.18 | 230.20 | | | |