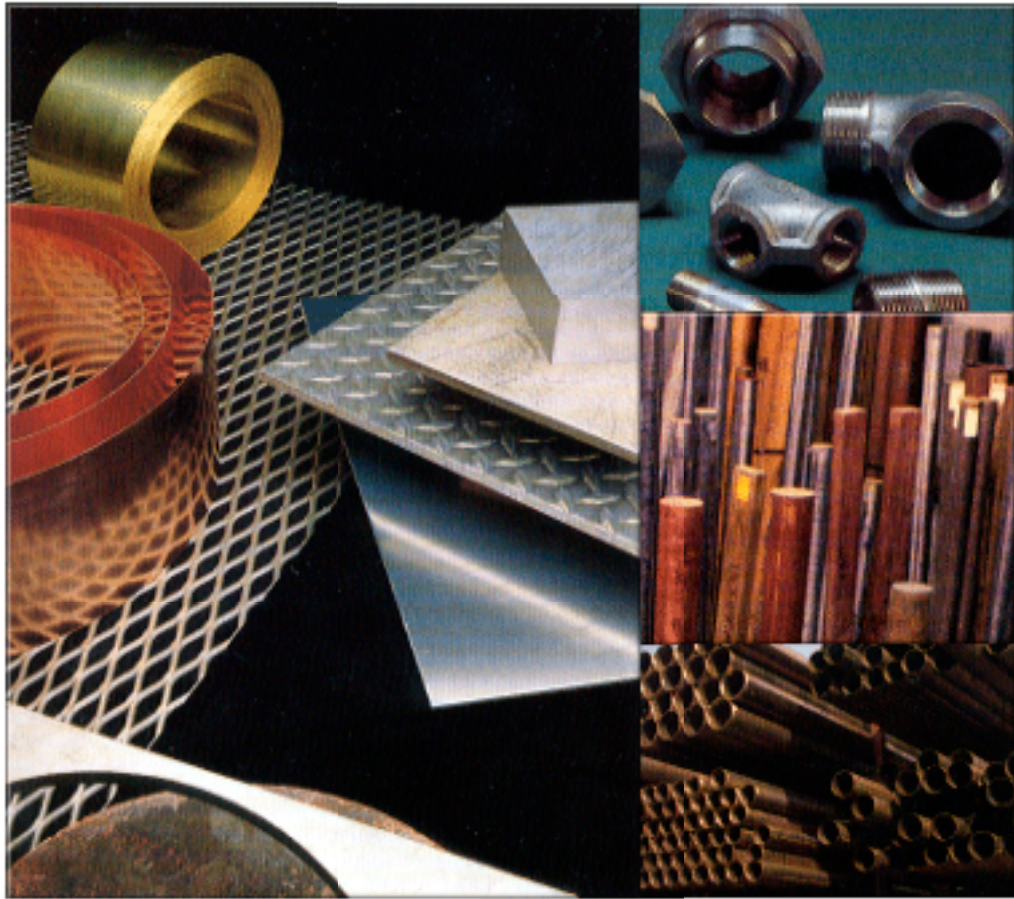


Brass Mill Products

***Brass Pipe, Rod, Bar,
Sheet, Plate, Tubing,
and Wire***

ALASKAN COPPER



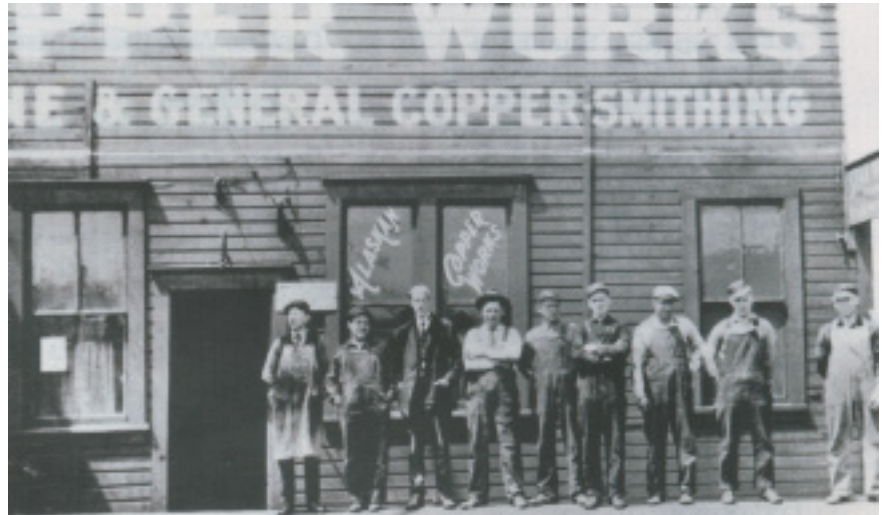
ALASKAN COPPER & BRASS COMPANY

History

When Alaskan Copper Works was founded as a marine coppersmithing company in 1913, one of its major activities was forming and brazing pipe and pipe fittings made from copper, brass and bronze, primarily for use in the Pacific Northwest shipbuilding industry.

Beginning in the 1920's, many of the area's growing process industries, such as pulp and paper, which had relied on wood stave and cast iron as corrosion resistant materials for their tanks and piping, welcomed the development of a new weldable alloy, silicon bronze. This alloy had special advantages in weight, cost and corrosion resistance. Alaskan Copper Works participated in the transition to this innovative metal and in the development of the welding techniques necessary for its proper fabrication.

In the 1930's, alloys with even better corrosion resistance, such as the austenitic stainless steels, became available and quickly came into general use not only in the pulp and paper industry but also in the other process industries then beginning to develop, such as



Alaskan Copper Works yesterday

petrochemical and food processing. Again, Alaskan Copper Works participated in the application of these new, advantageous materials and in the development of the welding and fabricating procedures required to maximize their usefulness.

Over the intervening years, improvements in our manufacturing capacities have seen the standard lengths of most pipe sizes increase from 4 feet to 10 feet and then to 20 feet. Die-formed smooth-flow

elbows began to be made in small sizes and gradually advanced to include larger sizes and many radii and wall thicknesses. Other advances over the years have led to tees being made with smooth-drawn outlets, the development of many available choices in the types of stub ends for different services and our manufacturing of pipe and fittings to advanced specifications and in "exotic" alloys, including our qualification to produce fittings for the nuclear power industry.

As a result, today's customers of the Stainless Products Division of Alaskan Copper Works benefit from the accumulated experience of one of the nation's largest organizations devoted exclusively to the manufacturing of pipe and pipe fittings in stainless steels, high-nickel alloys, duplex stainless alloys, copper-nickel alloys, aluminum, titanium, zirconium, copper and other weldable corrosion resistant alloys.



Alaskan Copper Works today.

Your Source for Corrosion Resistant Alloys

Alaskan Copper & Brass Company combines the largest and most diverse inventory of alloys in the Pacific Northwest with the very latest in material processing equipment. Our goal is to continue to be a true "service center" for our customers. We provide accurate, rapid quotation services and the ability to deliver material on time, preprocessed if necessary to our customer's exact specifications.

Northwest Owned and Operated

Alaskan Copper & Brass Company has been owned and operated by the same family since 1913. In our Seattle, Portland and Canadian distribution facilities, the emphasis has always been on personal service and long term relationships with our customers. Contract terms, credit terms and special stocking programs can be negotiated locally, with people who understand the Northwest market and its customers.

State of the Art Processing Equipment

Preprocessing of customer material has become more important every year due to more exacting quality requirements in most industries. Alaskan has responded to that demand by investing heavily in new processing equipment. Minimize scrap and save inventory costs! Let Alaskan do your material processing.

Customer Service our Specialty

Our sales staff is backed up by one of the most extensive information systems in the metals industry. Each salesperson has instantaneous access to all of our over 13,000 stocking items through a touch-input computer screen. Questions regarding the status of your order can be answered immediately, without a return call. We value your time as much as you do. This catalog covers sizes, weights and specifications of material for the commercial, military, marine, waste-water, petro-chemical, pharmaceutical, beverage and power industries. Call one of our informed and experienced salespeople for the rapid quotation response you expect in these competitive times.

ALASKAN COPPER

ALASKAN COPPER & BRASS COMPANY

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ALASKAN COPPER PROCESSING CAPABILITIES

Coil Processing

Aluminum, brass, copper, copper-nickel and stainless steel coil stock from .010" through $\frac{3}{8}$ " thick and up to 96" wide are levelled and cut to length on Alaskan's custom-made line.

Shearing

Precision shearing from light gauge to $\frac{3}{8}$ " thick copper alloy material, $\frac{1}{2}$ " thick stainless steel and up to $\frac{3}{4}$ " thick aluminum. Sheet or plate can be sheared in 20 foot continuous lengths using an adjustable backgauge. Plate up to 1" thick can be sheared in lengths up to 48".

Sawing

Abrasive sawing of copper alloy material and stainless steel though 4" thick to close tolerance for rectangles and squares. Metal carbide sawing of aluminum plate through 6" thick. Plate up to 96" x 168" can be sawed in full lengths. Plate up to 12 foot long can be sawed with a +/- .005" inch tolerance.

Splice Welding

Simultaneous welding from both sides by automatic gas tungsten-arc process to achieve any required sheet size from stock material. The weld procedures and welder qualifications conform to Section IX of the ASME Boiler and Pressure Vessel Code. The resulting weld has minimum distortion and minimum reinforcement to allow easy forming such as rolling. Material up to 20 feet in length may be welded together.

Plasma Burning

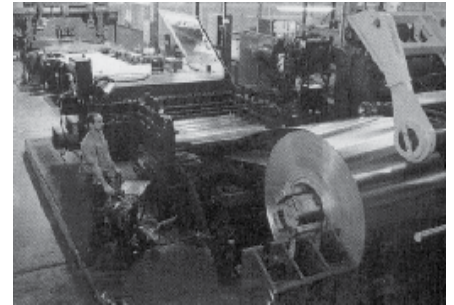
Computerized automatic plasma burning of any shape can be accomplished. All corrosion resistant alloys can be cut up to 3" thick. Up to 96" x 240" material can be accommodated. A water table is utilized to keep slag and the heat affected zone to a minimum.

Do-All Sawing

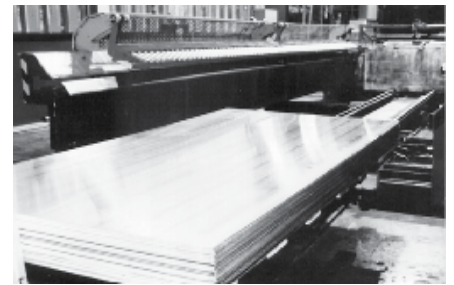
Automatic multiple cutting up to 16" by 16" bar or 16" diameter round bar, rod or tubing.

Custom Fabrication

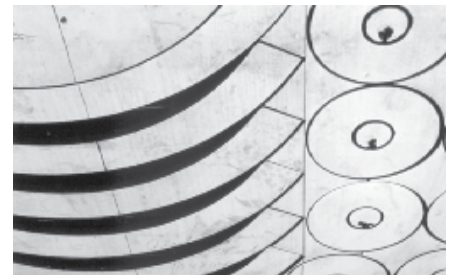
Custom fabrication of most industrial shapes can be performed by our affiliated company, ALASKAN COPPER WORKS. Work will be performed on a complete package basis including material or on a labor only basis utilizing the customer's material. The entire engineering and drafting department of ALASKAN COPPER WORKS is at your disposal, offering computerized design of heat transfer equipment, pressure vessels and tanks.



Alaskan's Cut-To-Length facility allows for efficient use of sheet and plate material.



Order the size that is needed, not just "standard" sizes.



Complex shapes are cut by computerized plasma cutting tables.



Aluminum wet pump pressure vessel used to transfer fish from a ship's hold to the dock.

Table Showing Fractions, Decimals, Centimeters & Millimeters

Fractional Inch	Decimal Inch	Centimeters	Millimeters	Millimeters	Centimeters	Decimal Inch	Fractional Inch
$\frac{1}{64}$	.0156	.0396	.3969	13.0969	1.310	.5156	$\frac{33}{64}$
$\frac{1}{32}$	.0312	.0792	.7938	13.4938	1.350	.5313	$\frac{17}{32}$
$\frac{3}{64}$	.0469	.1191	1.1906	13.8906	1.389	.5469	$\frac{35}{64}$
$\frac{1}{16}$	.0625	.1588	1.5875	14.2875	1.429	.5625	$\frac{9}{16}$
$\frac{5}{64}$	.0781	.1984	1.9844	14.6844	1.468	.5781	$\frac{37}{64}$
$\frac{3}{32}$	.0938	.2383	2.3813	15.0813	1.508	.5938	$\frac{19}{32}$
$\frac{7}{64}$	.1094	.2779	2.7781	15.4781	1.548	.6094	$\frac{39}{64}$
$\frac{1}{8}$	.125	.3175	3.1750	15.8750	1.588	.625	$\frac{5}{8}$
$\frac{9}{64}$	.1406	.3571	3.5719	16.2719	1.627	.6406	$\frac{41}{64}$
$\frac{5}{32}$	.1563	.3970	3.9688	16.6688	1.667	.6563	$\frac{21}{32}$
$\frac{11}{64}$	.1719	.4366	4.3656	17.0656	1.707	.6719	$\frac{43}{64}$
$\frac{3}{16}$	.1875	.4763	4.7625	17.4625	1.746	.6875	$\frac{11}{16}$
$\frac{13}{64}$	.2031	.5159	5.1594	17.8594	1.786	.7031	$\frac{45}{64}$
$\frac{7}{32}$	.2188	.5558	5.5563	18.2563	1.826	.7188	$\frac{23}{32}$
$\frac{15}{64}$	.2344	.5954	5.9531	18.6531	1.865	.7344	$\frac{47}{64}$
$\frac{1}{4}$	.250	.6350	6.3500	19.0500	1.905	.750	$\frac{3}{4}$
$\frac{17}{64}$	.2656	.6746	6.7469	19.4469	1.945	.7656	$\frac{49}{64}$
$\frac{9}{32}$	.2813	.7145	7.1438	19.8438	1.984	.7812	$\frac{25}{32}$
$\frac{19}{64}$	.2969	.7541	7.5406	20.2406	2.024	.7969	$\frac{51}{64}$
$\frac{5}{16}$	.3125	.7938	7.9375	20.6375	2.064	.8125	$\frac{13}{16}$
$\frac{21}{64}$	.3281	.8334	8.3344	21.0344	2.103	.8281	$\frac{53}{64}$
$\frac{11}{32}$	.3438	.8733	8.7313	21.4313	2.143	.8438	$\frac{27}{32}$
$\frac{23}{64}$	.3594	.9129	9.1281	21.8281	2.183	.8594	$\frac{55}{64}$
$\frac{3}{8}$	.375	.9525	9.5250	22.2250	2.223	.875	$\frac{7}{8}$
$\frac{25}{64}$	.3906	.9921	9.9219	22.6219	2.262	.8906	$\frac{57}{64}$
$\frac{13}{32}$	.4063	1.032	10.3188	23.0188	2.302	.9063	$\frac{29}{32}$
$\frac{27}{64}$	.4219	1.072	10.7156	23.4156	2.342	.9219	$\frac{59}{64}$
$\frac{7}{16}$	.4375	1.111	11.1125	23.8125	2.381	.9375	
$\frac{29}{64}$	.4531	1.151	11.5094	24.2094	2.421	.9531	$\frac{61}{64}$
$\frac{15}{32}$	.4688	1.191	11.9063	24.6063	2.461	.9688	$\frac{31}{32}$
$\frac{31}{64}$.4844	1.230	12.3031	25.0031	2.500	.9844	$\frac{63}{64}$
$\frac{1}{2}$.500	1.270	12.7000	25.4000	2.540	1.000	1

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Galvanic Corrosion

When two dissimilar metals are placed in an electrolytic solution, they develop characteristic negative potentials that cause a flow of current with resultant galvanic corrosion of one of the metals. The accompanying table presents the common metals and alloys in an order indicating which is the more likely to corrode under conditions favoring bi-metallic corrosion.

The metal in the higher position (near the anodic end) is more subject to corrosion than the one nearer the lower (cathodic) end. Thus, in seawater, zinc (4) coupled with copper (20) will corrode in preference to the copper, which is nearer the protected cathodic end.

The relative positions of the metals in this table are approximations based on the negative potentials developed in seawater and can vary under other conditions. Metals placed near each other in the table have little tendency to create conditions favoring galvanic corrosion. A thorough study of the potentials shows that they fall into groups of mutually inert metals. Under differing conditions they may shift positions within their own groups, but seldom shift from one group to another.

The negative potentials developed by the metals are determined by the metals themselves, as well as by the composition, oxygen content, temperature, and rate of flow of the solution. The rate of corrosion is affected by the voltage-difference generated, the area of the cathodic metal and the physical distance between the metals in the solution, and in the final analysis is determined by the quantity of current generated.

The table should be used only as a guide to general tendencies in galvanic corrosion.

ANODIC END

Corroded

1. Magnesium
2. Magnesium Alloys
3. Aluminum
4. Zinc
5. Aluminum (Alclad)
6. Cadmium
7. Cast Iron
8. Carbon Steel
9. Stainless Steel, Type 430 (Active)
10. Ni-Resist
11. Stainless Steel, Type 304 (Active)
12. Stainless Steel, Type 410 (Active)
13. Soft Solder
14. Tin
15. Lead
16. Nickel (Active)
17. Inconel (Active)
18. Brasses
19. Bronze
20. Copper
21. Nickel/Copper Alloys
22. Stainless Steel, Type 430 (Passive)
23. Nickel (Passive)
24. Stainless Steel, Type 316 (Active)
25. Inconel (Passive)
26. Stainless Steel, Type 410 (Passive)
27. Titanium
28. Silver Solder
29. Silver
30. Stainless Steel, Type 304 (Passive)
31. Monel Metal
32. Stainless Steel, Type 316 (Passive)
33. Graphite
34. Gold
35. Platinum

Protected

CATHODIC END

Brass Pipe

Red Brass Pipe, Regular, Sch 40



- UNS Designation Number: UNS C23000
- Nominal Chemicals: Copper 85.00%, Zinc 15.00%
- Average Physical Properties: Tensile 40,000 psi, Yield 18,000 psi, Machinability = 30
- Specifications: ASTM B 43, Temper H58 (Drawn General Purpose)
- Stocked in exact 12 & 20 foot lengths
- Red brass is the best quality pipe for general plumbing purposes. It has high corrosion resistance to water.

S.P.S Size	Outside Diameter	Wall	Lbs/Ft	H58 12 Ft Part Number	H58 20 Ft Part Number	O61 12 Ft Part Number	O61 20 Ft Part Number
1/8	.405	.062	.253	157085			
1/4	.540	.082	.447	157093	127462		
3/8	.675	.090	.627	157108	127488		
1/2	.840	.107	.934			157116	127496
3/4	1.050	.114	1.27			157124	127501
1	1.315	.126	1.78			157132	127527
1 1/4	1.660	.146	2.63			157140	127535
1 1/2	1.900	.150	3.13			157158	127551
2	2.375	.156	4.12			157166	127569
2 1/2	2.875	.187	5.99				157174
3	3.500	.219	8.56	127608	157182		
3 1/2	4.000	.250	11.20	157190			
4	4.500	.250	12.70	287814	157205		
5	5.562	.250	15.80			157213	
6*	6.625	.250	19.00				
10*	10.75	.365	45.20				
12	12.75	.375	55.30	157255			

* UNS C33500 Yellow Brass

Red Brass Pipe, Extra Strong, Sch 80

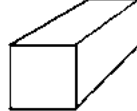
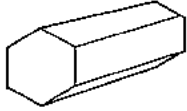
- UNS Designation Number: UNS C23000
- Nominal Chemicals: Copper 85.00%, Zinc 15.00%
- Average Physical Properties: Tensile 40,000 psi, Yield 18,000 psi, Machinability = 30
- Specifications: ASTM B 43, Temper H58 (Drawn General Purpose)
- Stocked in exact 12 foot lengths
- Red brass is the best quality pipe for general plumbing purposes. It has high corrosion resistance to water.

S.P.S. Size	Outside Diameter	Wall	Lbs/Ft	H58 12 Ft Part Number
1/8	.405	.100	.363	157263
1/4	.540	.123	.611	101034
3/8	.675	.127	.829	157289
1/2	.840	.149	1.23	157297
3/4	1.050	.157	1.67	157302
1	1.315	.182	2.46	238425
1 1/4	1.660	.194	3.39	157328
1 1/2	1.900	.203	4.10	157336
2	2.375	.221	5.67	157344

Dimensions are in inches. All weights are approximate.

Brass Rod & Bar

Hexagon & Square Free Cutting Half Hard Yellow Brass Rod



- UNS Designation Number: UNS C36000
- Nominal Chemicals: Copper 61.50%, Zinc 35.4%, Lead 3.1%
- Average Physical Properties: Tensile 45,000-57,000 psi, Yield 15,000-25,000 psi, Rockwell Hardness B40-B90
- Machinability = 100, Electrical Conductivity 26% IACS
- Specifications: ASTM B 16, Temper H02 (1/2 Hard)
- Stocked in 12 foot random lengths

Hexagon

Size	Lbs/Ft	Lbs/Length	Part Number
1/8	.050	.599	182721
5/32	.081	.973	486183
3/16	.112	1.35	154299
1/4	.199	2.39	154338
5/16	.312	3.74	154370
3/8	.449	5.38	154419
7/16	.611	7.33	154451
1/2	.798	9.57	154493
9/16	1.01	12.11	127666
5/8	1.25	14.95	154532
11/16	1.51	18.10	154566
3/4	1.80	21.54	154582
13/16	2.11	25.27	154613
7/8	2.44	29.32	154639
15/16	2.80	33.60	453635
1	3.19	38.28	154671
1 1/16	3.60	43.22	154702
1 1/8	4.04	48.46	154728
1 1/4	4.99	59.82	154760
1 3/8	6.03	72.38	154809
1 1/2	7.18	86.14	154825
1 3/4	9.77	117.3	135724
2	12.76	153.1	154922
2 1/2	19.94	239.3	127632
3	28.71	344.5	155017
3 1/2	39.11	469.3	155041

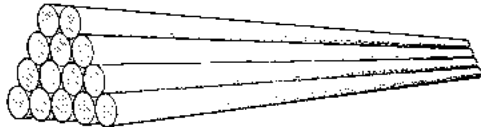
Square

Size	Lbs/Ft	Lbs/Length	Part Number
1/8	.058	.691	154265
3/16	.130	1.55	154304
1/4	.230	2.76	154346
5/16	.360	4.32	154388
3/8	.518	6.22	154427
1/2	.921	11.05	154508
5/8	1.44	17.27	154540
3/4	2.07	24.86	154590
7/8	2.82	33.85	154647
1	3.68	44.21	154689
1 1/8	4.66	55.96	154736
1 1/4	5.76	69.07	154778
1 1/2	8.29	99.47	154833
1 3/4	11.28	135.4	154883
2	14.74	176.9	154930
2 1/2	23.03	276.4	154980
3	33.16	397.9	155025

Dimensions are in inches. All weights are approximate.

Brass Rod & Bar

Round Free Cutting Half Hard Yellow Brass Rod



- UNS Designation Number: UNS C36000
- Nominal Chemicals: Copper 61.50%, Zinc 35.4%, Lead 3.1%
- Average Physical Properties: Tensile 45,000-57,000 psi, Yield 15,000-25,000 psi, Rockwell Hardness B40-B90
- Machinability = 100, Electrical Conductivity 26% IACS
- Specifications: ASTM B 16, Temper H02 (1/2 Hard)
- Stocked in 12 foot random lengths

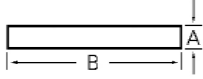
Size	Lbs/Ft	Lbs/Length	Part Number
1/16	.011	.132	154231
3/32	.025	.305	154249
1/8	.045	.542	154257
5/32	.071	.847	154273
3/16	.102	1.22	154281
7/32	.139	1.66	154312
1/4	.181	2.17	154320
9/32	.229	2.75	154354
5/16	.283	3.39	154362
3/8	.407	4.88	154401
13/32	.478	5.73	154435
7/16	.554	6.65	154443
1/2	.723	8.68	154485
9/16	.916	10.99	154516
5/8	1.13	13.56	154524
11/16	1.37	16.42	154558
3/4	1.63	19.54	154574
13/16	1.91	22.92	154605
7/8	2.22	26.58	154621
15/16	2.54	30.52	154655
1	2.89	34.72	154663
1 1/16	3.27	39.19	154697
1 1/8	3.66	43.94	154710

Size	Lbs/Ft	Lbs/Length	Part Number
1 3/16	4.08	48.96	154744
1 1/4	4.52	54.25	154752
1 3/8	5.47	65.64	154794
1 7/16	5.98	71.75	231473
1 1/2	6.51	78.12	154817
1 5/8	7.64	91.68	154841
1 3/4	8.86	106.3	154867
1 7/8	10.17	122.0	154891
2	11.57	138.8	154914
2 1/4	14.65	175.8	154948
2 3/8	16.32	195.8	154964
2 1/2	18.08	217.0	154972
2 3/4	21.88	262.6	154998
3	26.04	312.5	155009
3 1/4	30.60	367.2	269311
3 1/2	35.44	425.3	155033
3 3/4	40.68	488.2	155059
4	46.28	555.4	155067
4 1/4	52.28	627.4	155075
4 1/2	59.30	711.6	155083
5	72.32	867.8	155091
6	104.2	1250	155106
8*	185.1	1111	127739
10	288.0	1728	266460

* Stocked in 6 foot lengths
Dimensions are in inches. All weights are approximate.

Brass Rod & Bar

Rectangular Free Cutting Half Hard Yellow Brass Flat Bar



- UNS Designation Number: UNS C36000
- Nominal Chemicals: Copper 61.5%, Zinc 35.4%, Lead 3.1%
- Average Physical Properties: Tensile 45,000 psi (min), Yield 17,000 psi
- Specifications: ASTM B 16, Temper H02 (1/2 Hard), Machinability = 100, Electrical Conductivity 26% IACS
- Stocked in 12 foot lengths
- Excellent machinability combined with good mechanical and corrosion resistant properties. Non-stock items readily available from plate stock-edge sheared or sawed.

Thickness (A)	Width (B)	Lbs/Ft	Lbs/Length	Part Number
1/16	3/8	.086	1.03	155148*
1/16	1/2	.115	1.38	155198*
1/16	3/4	.173	2.08	155300
1/16	1	.231	2.77	231512*
3/32	3/8	.129	1.55	155156
3/32	1/2	.173	2.07	155203
3/32	3/4	.259	3.11	155318
3/32	1	.345	4.15	127713
1/8	1/4	.115	1.38	155130
1/8	3/8	.173	2.07	155164
1/8	1/2	.230	2.76	155211
1/8	5/8	.288	3.45	155261
1/8	3/4	.345	4.15	155326
1/8	7/8	.403	4.84	127690
1/8	1	.461	5.53	155392
1/8	1 1/4	.576	6.91	155481
1/8	1 1/2	.691	8.29	155588
1/8	1 3/4	.803	9.636	565678
1/8	2	.921	11.05	155677
1/8	2 1/2	1.15	13.81	155774
1/8	3	1.38	16.59	155821
1/8	4	1.84	22.10	155910
3/16	1/4	.172	2.06	176330

*C260 subject to availability

Dimensions are in inches. All weights are approximate.

Thickness (A)	Width (B)	Lbs/Ft	Lbs/Length	Part Number
3/16	3/8	.259	3.11	155172
3/16	1/2	.345	4.15	155229
3/16	5/8	.432	5.18	155279
3/16	3/4	.518	6.22	155334
3/16	1	.691	8.29	155407
3/16	1 1/4	.863	10.36	155499
3/16	1 1/2	1.04	12.43	155596
3/16	2	1.38	16.59	155685
3/16	2 1/2	1.73	20.72	176241
1/4	3/8	.345	4.15	155180
1/4	1/2	.461	5.53	155237
1/4	5/8	.576	6.91	155287
1/4	3/4	.691	8.29	155342
1/4	1	.921	11.05	155415
1/4	1 1/4	1.15	13.81	155504
1/4	1 1/2	1.38	16.59	155601
1/4	1 3/4	1.61	19.34	155708
1/4	2	1.84	22.10	155693
1/4	2 1/2	2.30	27.64	155782
1/4	3	2.76	33.16	155839
1/4	4	3.86	46.37	155928
1/4	5	4.61	55.26	156005
5/16	1	1.12	13.38	155423

Brass Rod & Bar**Rectangular Free Cutting Half Hard Yellow Brass Flat Bar (continued)**

Thickness (A)	Width (B)	Lbs/Ft	Lbs/length	Part Number
$\frac{5}{16}$	1 $\frac{1}{2}$	1.73	20.75	155619
$\frac{3}{8}$	$\frac{1}{2}$	.691	8.29	155245
$\frac{3}{8}$	$\frac{5}{8}$	.864	10.37	155295
$\frac{3}{8}$	$\frac{3}{4}$	1.04	12.43	155350
$\frac{3}{8}$	1	1.38	16.58	155431
$\frac{3}{8}$	1 $\frac{1}{4}$	1.73	20.72	155520
$\frac{3}{8}$	1 $\frac{3}{8}$	1.90	22.79	438326
$\frac{3}{8}$	1 $\frac{1}{2}$	2.07	24.86	155627
$\frac{3}{8}$	1 $\frac{3}{4}$	2.42	29.02	439819
$\frac{3}{8}$	2	2.76	33.16	155716
$\frac{3}{8}$	2 $\frac{1}{2}$	3.45	41.45	155790
$\frac{3}{8}$	3	4.15	49.74	155847
$\frac{3}{8}$	4	5.53	66.31	155936
$\frac{1}{2}$	$\frac{3}{4}$	1.38	16.58	176089
$\frac{1}{2}$	1	1.84	22.10	155449
$\frac{1}{2}$	1 $\frac{1}{4}$	2.30	27.64	155538
$\frac{1}{2}$	1 $\frac{1}{2}$	2.76	33.16	155635
$\frac{1}{2}$	2	3.68	44.21	155724
$\frac{1}{2}$	2 $\frac{1}{2}$	4.61	55.26	155805
$\frac{1}{2}$	3	5.53	66.31	155855
$\frac{1}{2}$	4	7.37	88.42	155944
$\frac{5}{8}$	$\frac{3}{4}$	1.73	20.75	155368
$\frac{5}{8}$	1	2.30	27.62	155457
$\frac{5}{8}$	1 $\frac{1}{4}$	2.88	34.56	155546
$\frac{5}{8}$	1 $\frac{1}{2}$	3.45	41.44	155643

Thickness (A)	Width (B)	Lbs/Ft	Lbs/length	Part Number
$\frac{5}{8}$	2	4.60	55.25	155732
$\frac{5}{8}$	3	6.91	82.87	155863
$\frac{3}{4}$	1	2.76	33.16	155465
$\frac{3}{4}$	1 $\frac{1}{4}$	3.45	41.45	155554
$\frac{3}{4}$	1 $\frac{1}{2}$	4.15	49.74	155651
$\frac{3}{4}$	1 $\frac{3}{4}$	4.84	58.02	439827
$\frac{3}{4}$	2	5.53	66.31	155740
$\frac{3}{4}$	3	8.29	99.47	155871
$\frac{3}{4}$	4	11.05	132.6	155952
$\frac{7}{8}$	1 $\frac{1}{8}$	3.63	43.52	492841
1	1 $\frac{1}{4}$	4.61	55.26	155562
1	1 $\frac{1}{2}$	5.53	66.31	155669
1	1 $\frac{3}{4}$	6.45	77.36	444903
1	2	7.37	88.42	155758
1	3	11.05	132.6	155889
1	4	14.74	176.9	155960
1 $\frac{1}{4}$	2	9.21	110.5	155766
1 $\frac{1}{4}$	3	13.81	165.7	176005
1 $\frac{1}{4}$	4	18.42	221.0	155978
1 $\frac{1}{2}$	2	11.01	132.1	175986
1 $\frac{1}{2}$	2 $\frac{1}{2}$	13.85	166.2	155813
1 $\frac{1}{2}$	3	16.58	198.9	437906
1 $\frac{1}{2}$	4	22.10	265.2	155986
2	3	22.03	264.4	155897
2	4	29.48	353.8	155994

Dimensions are in inches. All weights are approximate.

Brass Rod & Bar

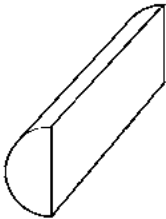
Half Oval Free Cutting Half Hard Yellow Brass Bar



- UNS Designation Number: UNS C36000
- Nominal Chemicals: Copper 61.5%, Zinc 35.4%, Lead 3.1%
- Average Physical Properties: Tensile 45,000 psi (min), Yield 17,000 psi
- Specifications: ASTM B 16, Temper H02 (1/2 Hard)
- Stocked in 12 foot lengths

Size	Lbs/Ft	Lbs/Length	Part Number
$\frac{1}{8} \times \frac{1}{2}$	.181	2.17	156322
$\frac{3}{16} \times \frac{5}{8}$	.338	4.05	293182
$\frac{3}{16} \times \frac{3}{4}$	.366	4.39	156348
$\frac{1}{4} \times 1$	.642	7.70	156356
$\frac{5}{16} \times 1 \frac{1}{4}$	1.01	12.13	156364
$\frac{5}{16} \times 1 \frac{1}{2}$	1.17	14.00	156372

Half Round Free Cutting Half Hard Yellow Brass Bar



- UNS Designation Number: UNS C36000
- Nominal Chemicals: Copper 61.5%, Zinc 35.4%, Lead 3.1%
- Average Physical Properties: Tensile 45,000 psi (min), Yield 17,000 psi
- Specifications: ASTM B 16, Temper H02 (1/2 Hard)
- Stocked in 12 foot lengths

Size	Lbs/Ft	Lbs/length	Part Number
$\frac{1}{4} \times \frac{1}{2}$	.362	4.34	156380
$\frac{5}{16} \times \frac{5}{8}$	.566	6.79	156398
$\frac{3}{8} \times \frac{3}{4}$	.815	9.78	156403

Dimensions are in inches. All weights are approximate.

Brass Sheet & Plate

Non-Leaded Brass Sheet & Plate, Half Hard Temper



- UNS Designation Number: UNS C26000
- Nominal Chemicals: Copper 70%, Zinc 30%
- Average Physical Properties: Tensile 62,000 psi, Hardness B68, Machinability = 30
- Specifications: ASTM B 36, Temper H02 (1/2 Hard)

Gauge	Thickness	Size of Sheet	Lbs/Sq Ft	Lbs/Sheet	Part Number
26	.016	24 x 96	.705	11.28	127315
24	.020	36 x 96	.881	21.14	103036
22	.025	36 x 96	1.10	26.45	157784
20	.032	36 x 96	1.41	33.84	157865
18	.040	36 x 96	1.76	42.29	157881
16	.050	36 x 96	2.20	52.87	157904
14	.063	36 x 96	2.77	66.55	157920
11	.090	36 x 96	3.97	95.16	157946
1/8	.125	36 x 96	5.51	132.2	157962
3/16	.1875	36 x 96	8.26	198.2	157988
1/4	.250	36 x 96	11.02	264.5	158007
5/16	.3125	36 x 96	13.77	330.5	420153
3/8	.375	36 x 96	16.52	396.5	409822
1/2	.500	36 x 96	22.18	542.5	419186
3/4	.750	36 x 96	33.05	793.2	158031
1	1.00	36 x 96	44.06	1057	432095

Non-Leaded Brass Sheet & Coil, Soft Temper

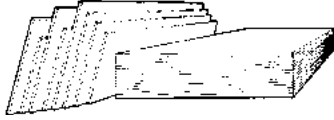
- UNS Designation Number: UNS C26000
- Nominal Chemicals: Copper 70%, Zinc 30%
- Average Physical Properties: Tensile 45,000, Hardness F70
- Specifications: ASTM B 36, Annealed

Gauge	Thickness	Size of Sheet	Lbs/Sq Ft	Part Number
36	.005	12 x COIL	.220	157564
30	.010	12 x COIL	.441	157572
26	.016	12 x COIL	.705	157598
22	.025	12 x COIL	1.10	157629
18	.040	36 x 96	1.76	127404
16	.050	36 x 96	2.20	267709
14	.063	36 x 96	2.77	246850

Dimensions are in inches. All weights are approximate.

Brass Sheet & Plate

Free Milling Engraver's Brass Sheet & Plate, Half Hard Temper



- UNS Designation Numbers: UNS C35300 and UNS C35600
- Nominal Chemicals: Copper 62%, Zinc 35.5%, Lead 2.5%
- Average Physical Properties: Tensile 60,000, Hardness B65, Machinability = 100
- Specifications: ASTM B 121, Temper H02 (1/2 Hard)
- Leaded brass sheet is used where machining is important, but forming or bending is minor.

Gauge	Thickness	Size of Sheet	Lbs/Sq Ft	Lbs/Sheet	Part Number
18	.040	24 x 96	1.76	14.10	581802
14	.063	24 x 96	2.77	44.37	402804
1/8	.125	24 x 96	5.51	88.11	275906
3/16	.188	24 x 96	8.26	132.2	287961
1/4	.250	24 x 96	11.01	176.2	272576
3/8	.375	24 x 96	16.52	264.3	402383
1/2	.500	24 x 96	22.26	356.2	277209
5/8	.625	24 x 96	27.50	440.0	402391
3/4	.750	24 x 96	33.05	528.8	157548
1	1.00	24 x 96	44.06	705.0	295362

Shim Brass, In 6" x 100" Rolls

- UNS Designation Number: UNS C26000
- Nominal Chemicals: Copper 70%, Zinc 30%
- Average Physical Properties: Tensile 62,000 psi, Hardness B68, Machinability = 30
- Specifications: ASTM B 36, Temper H02 (1/2 Hard)

Stock No.	Decimal Thickness	Lbs/Sq Ft	Lbs/Ctn	Part Number
CBS - 1	.001	.044	.183	158057
CBS - 2	.002	.088	.375	158073
CBS - 3	.003	.132	.554	158081
CBS - 5	.005	.218	.917	158104
CBS - 6	.006	.267	1.12	158112
CBS - 10	.010	.441	1.84	158146
CBS - 15	.015	.661	2.75	158154
CBS - 20	.020	.881	3.67	158162

Dimensions are in inches. All weights are approximate.

Brass Tubing

Round Brass Seamless Tubing, Specified by OD and Gauge



- UNS Designation Numbers: UNS C33000, C33500, C26000, C27200
- Nominal Chemicals:
 - (C33000) Copper 66.50%, Zinc 33.00%, Lead .050%
 - (C33500) Copper 63.50%, Zinc 36.00%, Lead .500%
 - (C26000) Copper 70.00%, Zinc 30.00%
 - (C27200) Copper 63.50%, Zinc 36.50%
- Average Physical Properties: Tensile 72,000 psi, Hardness B80, Machinability (260) = 30 (330) = 60
- Specifications: ASTM B 135, Temper H80 (Hard Drawn)
- Stocked in 12 foot lengths
- Round seamless brass tubing is a general utility tube that has many applications, including pump and power cylinders, liners and plumbing work. Alloy 330 is preferred where machinability (threading, cutting) is important while alloy 260 and 274 is used where formability (bending, cold working) is important.

OD	Gauge	Wall	Lbs/Ft	Lbs/ Length	Part Number	OD	Gauge	Wall	Lbs/Ft	Lbs/ Length	Part Number
1/8	22	.032	.033	.396	156013	3/4	22	.029	.250	3.00	156110
5/32	22	.032	.050	.600	414398	3/4	19	.040	.344	4.13	156885
3/16	22	.030	.054	.648	156021	13/16	22	.030	.270	3.24	156128
3/16	19	.042	.071	.852	156770	7/8	22	.030	.292	3.50	156136
1/4	22	.030	.076	.912	156039	15/16	21	.032	.313	3.76	156144
1/4	19	.042	.101	1.21	156788	1	22	.030	.335	4.02	156152
1/4	16	.065	.139	1.67	156796	1	19	.040	.466	5.59	156908
5/16	22	.029	.098	1.18	156047	1	16	.065	.703	8.44	156916
5/16	19	.042	.131	1.57	156801	1 1/4	19	.042	.587	7.04	156924
5/16	16	.065	.185	2.22	299552	1 1/4	16	.065	.891	10.69	156932
3/8	22	.030	.120	1.44	156055	1 1/2	19	.040	.676	8.11	156940
3/8	19	.042	.162	1.94	156827	1 1/2	16	.065	1.08	12.95	156958
3/8	16	.065	.233	2.80	156835	1 3/4	16	.065	1.27	15.20	156966
7/16	22	.029	.142	1.70	421387	2	18	.049	1.11	13.27	247660
7/16	16	.065	.280	3.36	404628	2	16	.065	1.46	17.46	156982
1/2	22	.030	.163	1.96	156071	2		.109	2.39	33.40	417817
1/2	19	.042	.223	2.68	156869	2 1/2	19	.042	1.14	13.68	229256
1/2	16	.065	.327	3.92	156877	2 1/2	16	.065	1.83	21.97	157019
9/16	22	.030	.185	2.22	156089	3	18	.049	1.67	20.04	157027
9/16	22	.032	.185	2.22	465713	3	12	.109	3.65	43.76	157043
5/8	22	.029	.207	2.48	156097	4	16	.065	2.96	35.52	157077
11/16	22	.030	.228	2.74	156102						

Dimensions are in inches. All weights are approximate.

Brass Tubing

Round Brass Seamless Tubing, $\frac{1}{8}$ " Wall



- UNS Designation Numbers: UNS C33000 and C33500
- Nominal Chemicals:
 - (C33000) Copper 66.50%, Zinc 33.00%, Lead 0.50%
 - (C33500) Copper 63.50%, Zinc 36.00%, Lead .500%
- Average Physical Properties:
 - 5" ID and under Tensile 66,000 psi, Hardness B65
 - Over 5" ID Tensile 54,000 psi, Yield 40,000, Hardness B55
- Specifications: ASTM B 135, Temper H80 (Hard Drawn), H58 (Drawn General Purpose)
- Stocked in 12 foot lengths

OD	ID	Wall	Lbs/Ft	Lbs/Length	Part Number
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	.900	10.80	156429
$\frac{7}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	1.09	13.08	156437
1	$\frac{3}{4}$	$\frac{1}{8}$	1.27	15.24	156445
1 $\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$	1.45	17.40	156453
1 $\frac{1}{4}$	1	$\frac{1}{8}$	1.63	19.56	156461
1 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{1}{8}$	1.81	21.72	156479
1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{1}{8}$	1.99	23.88	156487
1 $\frac{3}{4}$	1 $\frac{1}{2}$	$\frac{1}{8}$	2.35	28.20	156500
2	1 $\frac{3}{4}$	$\frac{1}{8}$	2.71	32.52	156518
2 $\frac{1}{4}$	2	$\frac{1}{8}$	3.07	36.84	156526
2 $\frac{1}{2}$	2 $\frac{1}{4}$	$\frac{1}{8}$	3.44	41.28	156534
2 $\frac{3}{4}$	2 $\frac{1}{2}$	$\frac{1}{8}$	3.80	45.60	156542
3	2 $\frac{3}{4}$	$\frac{1}{8}$	4.16	49.92	156550
3 $\frac{1}{4}$	3	$\frac{1}{8}$	4.52	54.24	156568
3 $\frac{1}{2}$	3 $\frac{1}{4}$	$\frac{1}{8}$	4.88	58.56	156576
3 $\frac{3}{4}$	3 $\frac{1}{2}$	$\frac{1}{8}$	5.24	62.88	156584
4 $\frac{1}{4}$	4	$\frac{1}{8}$	5.97	71.64	156607
4 $\frac{1}{2}$	4 $\frac{1}{4}$	$\frac{1}{8}$	6.33	75.96	156615
5 $\frac{1}{4}$	5	$\frac{1}{8}$	7.41	88.92	156649
6 $\frac{1}{4}$	6	$\frac{1}{8}$	8.86	106.3	156673
7 $\frac{1}{4}$	7	$\frac{1}{8}$	10.31	123.7	156681
8 $\frac{1}{4}$	8	$\frac{1}{8}$	11.75	141.0	156699
10 $\frac{1}{4}$	10	$\frac{1}{8}$	14.65	175.8	156704
10 $\frac{3}{8}$	10	$\frac{3}{16}$	21.62	259.4	156746
12 $\frac{3}{8}$	12	$\frac{3}{16}$	26.67	320.0	156754
14 $\frac{3}{8}$	14	$\frac{3}{16}$	31.90	382.8	156762

Dimensions are in inches. All weights are approximate.

Brass Tubing

Polished Brass Tubing



- UNS Designation Number: UNS C27400
- Nominal Chemicals:
Copper 62.50%, Zinc 37.50%
- Average Physical Properties: Tensile 74,000 ksi, Hardness B80, Machinability = 35
- Specifications: ASTM B 135, Temper H80 (Hard Drawn)
- Stocked in 12 foot lengths
- Polished round seamless tubing is often used in bar rail settings in restaurants, hotels, and home applications.
- Matching bar rail fittings are available upon request.

OD	Wall	Lbs/Ft	Lbs/Length	Part Number
1	.050	.559	6.71	421832
1 1/2	.050	.839	10.07	229230
2	.050	1.13	13.56	229248

Dimensions are in inches. All weights are approximate.

Brass Wire

Soft Brass Wire



- UNS Designation Number: UNS C26000
- Nominal Chemicals: Copper 70.00%, Zinc 30.00%
- Average Physical Properties: Tensile 50,000 psi
- Specifications: ASTM B 134, Soft Temper
- Best combination of strength and ductility of any brass. Excellent cold working properties.

Gauge	Diameter	Ft/Lb	RML Part Number	1 Lbs Part Number	5 Lbs Part Number	10 Lbs Part Number	15 Lbs Part Number	50 Lbs Part Number
12	.081	53.00	127894	403258				
14	.064	83.00	127878	103133	103117	103094		
16	.051	135.0		103191	103175	103159		
18	.040	213.0	127975	103256	103230	103214		127836
20	.032	340.0		103311	103298	103272		
22	.025	540.0		103353		103337		
24	.020	860.0		103379			127771	
26	.016	1370		103395		127755		

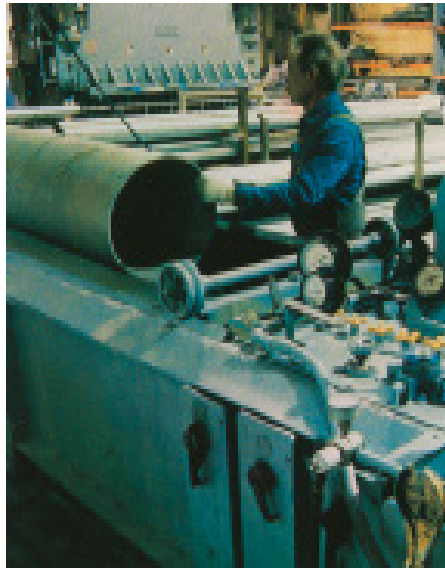
Dimensions are in inches. All weights are approximate.

Notes

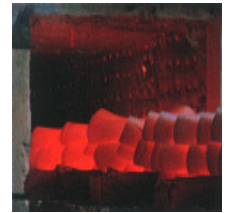
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