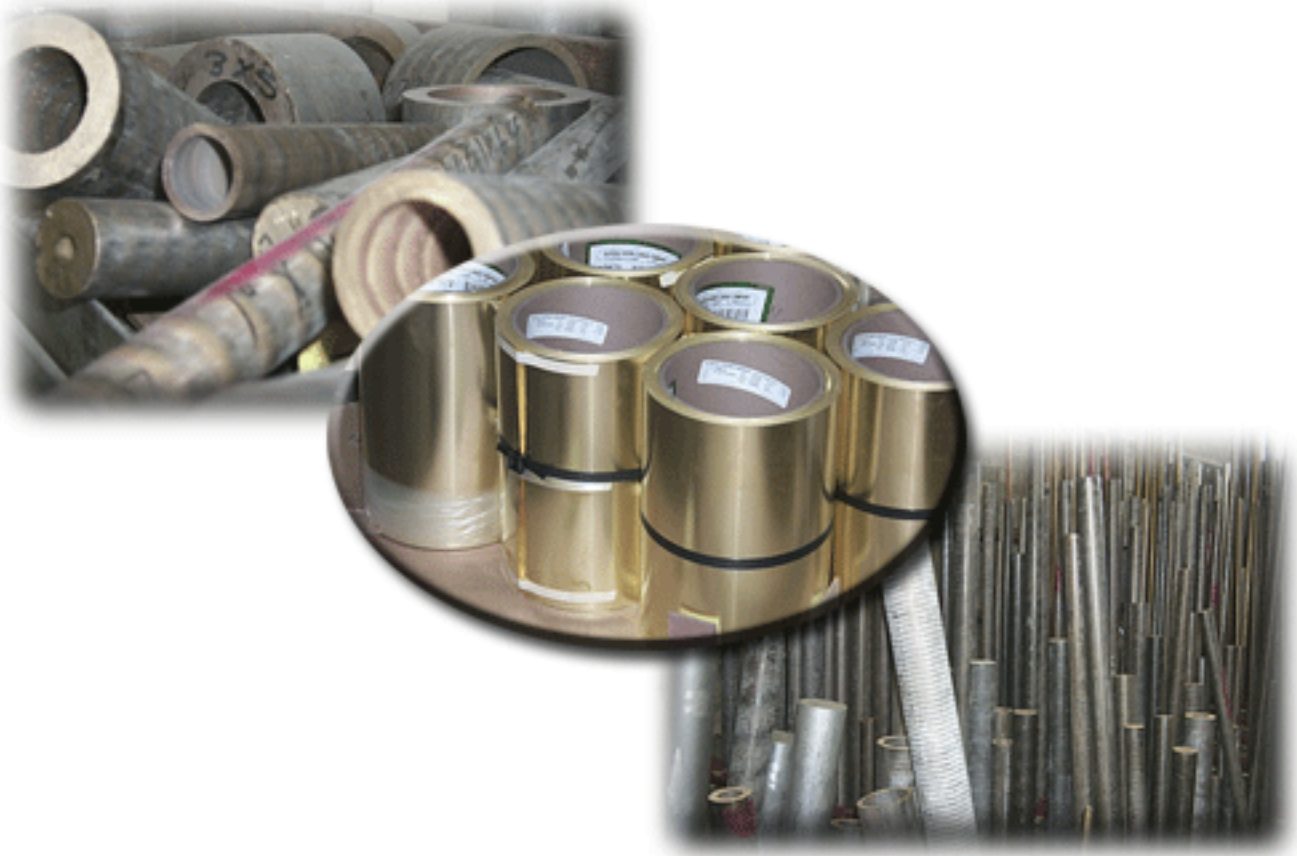


Bronze Mill Products

***Bronze Angle, Rod, Bar,
Sheet, Plate, & Wire***

ALASKAN COPPER



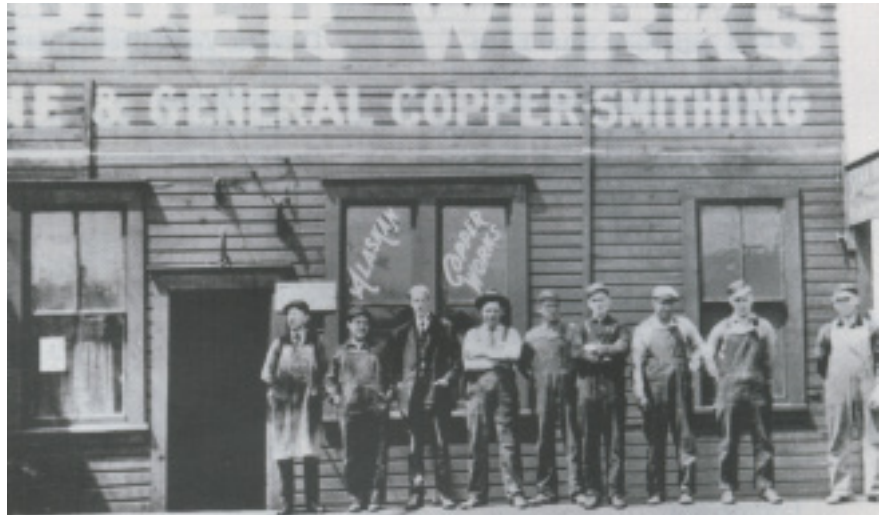
ALASKAN COPPER & BRASS COMPANY

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

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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

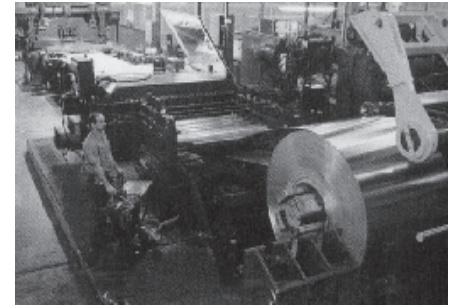
Computerized automatic plasma burning of any shape can be accomplished. All corrosion resistant alloys can be cut up to 3" thick. Up to 96" x 240" material can be accommodated. A water table is utilized to keep slag and the heat affected zone to a minimum.

Do-All Sawing

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

Custom Fabrication

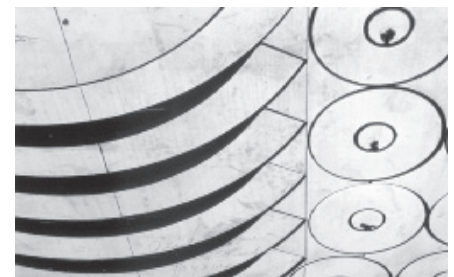
Custom fabrication of most industrial shapes can be performed by our affiliated company, ALASKAN COPPER WORKS. Work will be performed on a complete package basis including material or on a labor only basis utilizing the customer's material. The entire engineering and drafting department of ALASKAN COPPER 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	$\frac{19}{32}$
$\frac{1}{8}$	.1094	.2779	2.7781	15.4781	1.548	.6094	$\frac{39}{64}$
$\frac{9}{64}$	.125	.3175	3.1750	15.8750	1.588	.625	$\frac{5}{8}$
$\frac{5}{32}$	.1406	.3571	3.5719	16.2719	1.627	.6406	$\frac{41}{64}$
$\frac{11}{64}$	.1563	.3970	3.9688	16.6688	1.667	.6563	$\frac{21}{32}$
$\frac{3}{16}$	.1719	.4366	4.3656	17.0656	1.707	.6719	$\frac{43}{64}$
$\frac{13}{64}$	.1875	.4763	4.7625	17.4625	1.746	.6875	$\frac{11}{16}$
$\frac{7}{32}$	.2031	.5159	5.1594	17.8594	1.786	.7031	$\frac{45}{64}$
$\frac{15}{64}$	.2188	.5558	5.5563	18.2563	1.826	.7188	$\frac{23}{32}$
$\frac{1}{4}$	.2344	.5954	5.9531	18.6531	1.865	.7344	$\frac{47}{64}$
$\frac{17}{64}$	.250	.6350	6.3500	19.0500	1.905	.750	$\frac{3}{4}$
$\frac{9}{32}$	.2656	.6746	6.7469	19.4469	1.945	.7656	$\frac{49}{64}$
$\frac{19}{64}$	.2813	.7145	7.1438	19.8438	1.984	.7812	$\frac{25}{32}$
$\frac{5}{16}$	.2969	.7541	7.5406	20.2406	2.024	.7969	$\frac{51}{64}$
$\frac{21}{64}$	.3125	.7938	7.9375	20.6375	2.064	.8125	$\frac{13}{16}$
$\frac{11}{32}$	.3281	.8334	8.3344	21.0344	2.103	.8281	$\frac{53}{64}$
$\frac{23}{64}$	.3438	.8733	8.7313	21.4313	2.143	.8438	$\frac{27}{32}$
$\frac{3}{8}$	.3594	.9129	9.1281	21.8281	2.183	.8594	$\frac{55}{64}$
$\frac{25}{64}$	.375	.9525	9.5250	22.2250	2.223	.875	$\frac{7}{8}$
$\frac{13}{32}$	.3906	.9921	9.9219	22.6219	2.262	.8906	$\frac{57}{64}$
$\frac{27}{64}$	.4063	1.032	10.3188	23.0188	2.302	.9063	$\frac{29}{32}$
$\frac{7}{16}$	.4219	1.072	10.7156	23.4156	2.342	.9219	$\frac{59}{64}$
$\frac{29}{64}$	.4375	1.111	11.1125	23.8125	2.381	.9375	
$\frac{15}{32}$	.4531	1.151	11.5094	24.2094	2.421	.9531	$\frac{61}{64}$
$\frac{31}{64}$	.4688	1.191	11.9063	24.6063	2.461	.9688	$\frac{31}{32}$
$\frac{1}{2}$	.4844	1.230	12.3031	25.0031	2.500	.9844	$\frac{63}{64}$
	.500	1.270	12.7000	25.4000	2.540	1.000	1

Bronze Mill Products

Bronze Angle

Architectural Bronze Angle	6
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Selected Metal Weights

Metal Weights in Pounds Per Square Inch

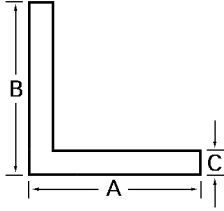
Name of Metal

THICKNESS IN INCHES	ALUMINUM (6061 - T6)	ALUMINUM BRONZE	STAINLESS STEEL	BERYLLIUM COPPER	NAVAL BRONZE	BRASS & SILCON BRONZE	PHOSPHOR BRONZE	COPPER & COPPER NICKEL	
$\frac{1}{16}$	.0625 .0647 .072	.006 .006 .007	.0175 .0181 .0210	.0182 .0188 .0209	.0185 .0192 .0213	.0190 .0196 .0218	.0192 .0199 .0221	.0200 .0207 .0230	.0201 .0208 .0231
	.078 .080 .083	.008 .009 .009	.0219 .0224 .0233	.0227 .0233 .0242	.0231 .0237 .0246	.0237 .0242 .0252	.0240 .0245 .0255	.0249 .0255 .0265	.0251 .0257 .0267
	.086 .093 .095	.009 .009 .009	.0249 .0262 .0267	.0259 .0272 .0277	.0263 .0276 .0282	.0270 .0283 .0289	.0273 .0287 .0292	.0284 .0298 .0304	.0286 .0300 .0306
	.101 .109 .120	.010 .011 .012	.0285 .0305 .0337	.0296 .0317 .0350	.0301 .0323 .0356	.0309 .0330 .0364	.0312 .0334 .0369	.0325 .0348 .0384	.0327 .0350 .0386
$\frac{1}{8}$	.125 .134 .148	.012 .013 .015	.0351 .0377 .0415	.0364 .0391 .0431	.0370 .0398 .0439	.0379 .0408 .0449	.0384 .0413 .0455	.0399 .0429 .0473	.0402 .0432 .0476
	.156 .165 .172	.015 .016 .017	.0438 .0463 .0483	.0455 .0481 .0501	.0463 .0489 .0510	.0474 .0501 .0522	.0480 .0508 .0529	.0499 .0528 .0550	.0502 .0531 .0553
$\frac{3}{16}$	.1875 .203 .220	.018 .019 .022	.0526 .0570 .0618	.0546 .0592 .0641	.0556 .0602 .0653	.0569 .0616 .0668	.0576 .0624 .0677	.0599 .0659 .0704	.0603 .0653 .0708
	.238 .250 .250	.023 .025 .030	.0669 .0703 .0878	.0694 .0730 .0911	.0706 .0742 .0927	.0723 .0760 .0950	.0732 .0770 .0962	.0761 .0800 .1000	.0766 .0805 .1006
$\frac{5}{16}$	.3125	.030	.0878	.0911	.0927	.0950	.0962	.1000	.1006
$\frac{3}{8}$	.375	.037	.1055	.1095	.113	.1140	.1155	.1200	.1207
$\frac{7}{16}$	.4375	.043	.1229	.1276	.1298	.1329	.1346	.1399	.1408
$\frac{1}{2}$	.500	.049	.141	.146	.148	.152	.154	.160	.161
$\frac{5}{8}$	.625	.061	.176	.182	.185	.190	.192	.200	.201
$\frac{3}{4}$	.750	.074	.212	.219	.223	.228	.231	.240	.242
$\frac{7}{8}$	.875	.086	.246	.255	.260	.266	.269	.280	.282
1	1.00	.098	.281	.292	.297	.304	.308	.320	.323
1 $\frac{1}{4}$	1.25	.123	.353	.365	.371	.380	.385	.400	.403
1 $\frac{1}{2}$	1.50	.147	.422	.438	.445	.456	.462	.480	.483
2	2.00	1.96	.562	.584	.584	.608	.616	.640	.644

Dimensions are in inches.

Bronze Angle

Architectural Bronze Extruded Angle, Square Corners



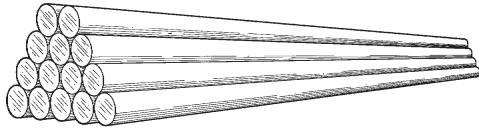
- UNS Designation Number: UNS C38500
- Nominal Chemicals: Copper 57.00%, Zinc 40.00%, Lead 3.00%, Iron .030%
- Average Physical Properties: Tensile 60,000 psi, Yield 20,000 psi, Elongation 30%
- Specifications: ASTM B 455, Temper H50 (Extruded and Drawn)
- Stocked in 12 foot lengths

Leg (A)	Leg (B)	Thickness (C)	Lbs/Ft	Lbs/Length	Part Number
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{16}$	.216	2.59	206868
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{8}$	.420	5.04	206957
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{16}$	.330	3.96	206892
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	.640	7.68	206981
1	1	$\frac{1}{16}$	.440	5.28	206923
1	1	$\frac{1}{8}$	.880	10.56	207018
1	1	$\frac{1}{4}$	1.60	19.20	207131
$1 \frac{1}{4}$	$1 \frac{1}{4}$	$\frac{1}{8}$	1.09	13.08	207042
$1 \frac{1}{2}$	$1 \frac{1}{2}$	$\frac{1}{8}$	1.31	15.72	207076
$1 \frac{1}{2}$	$1 \frac{1}{2}$	$\frac{3}{16}$	1.92	23.04	207107
2	2	$\frac{1}{8}$	1.74	20.88	207254
2	2	$\frac{1}{4}$	3.48	41.76	207199
3	3	$\frac{1}{4}$	5.08	60.96	207288

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze Rod & Bar

Aluminum Bronze Round Rod



- UNS Designation Number: UNS C64200
- Nominal Chemicals: Copper 91.20%, Aluminum 7.00%, Silicon 1.80%
- Average Physical Properties: Tensile 85,000 psi, Yield 42,000 psi, Elongation 20%, Brinell Hardness = 146
- Machinability = 60, Electrical Conductivity 8% IACS
- Specifications: Through 3" - ASTM B 150, AMS 4634, Temper HR50 (Drawn and Stress Relieved), over 3" - M30 Temper
- Stocked in random lengths depending on size
- High strength, hardness, wear resisting qualities and good resistance to corrosion fatigue are attributes of this alloy.

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
1/4	.167	2.000	442375
3/8	.375	4.500	208810
7/16	.494	5.928	420527
1/2	.650	7.800	208844
5/8	1.020	12.240	208878
3/4	1.460	17.520	208909
7/8	2.000	24.000	208933
1	2.600	31.200	208967
1 1/8	3.300	39.600	208991
1 3/16	3.610	43.320	477320
1 1/4	4.060	48.720	209028
1 3/8	4.900	58.800	209052
1 1/2	5.900	70.800	209086
1 5/8	6.900	82.800	209117
1 3/4	7.970	95.640	209141
1 7/8	9.200	110.400	209175
2	10.400	124.800	209206
2 1/8	11.660	139.900	209230
2 1/4	13.200	158.400	209264
2 1/2	16.200	194.400	209329
2 5/8	17.930	215.200	209353
2 3/4	19.600	235.200	209387
3	23.400	280.800	209418
3 1/4	27.300	327.600	209476
3 1/2	32.080	385.000	209507
4 1/2	52.000	624.000	209565
5	66.000	792.000	209599
6	97.704	977.040	209620

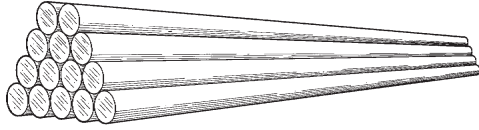
2 3/4" and smaller - Lengths are random 12 foot.

3" and larger - Lengths are progressively shorter.

Dimensions are in inches. All weights are approximate.

Sizes not shown may be available upon request.

Aluminum Nickel Bronze Round Rod



- UNS Designation Number: UNS C63000
- Nominal Chemicals: Copper 78-83.8%, Aluminum 9.7-10.9%, Iron 2.03-5%, Nickel 4.5-5.5%, Manganese 0-1.5%, Other 0-0.6%
- Average Physical Properties: Tensile 110,000 psi, Yield 60,000 psi, Elongation 10%, Brinell Hardness = 202
- Machinability = 30, Electrical Conductivity 7% IACS
- Specifications: ASTM B 150, Temper HR50 (Drawn and Stress Relieved), AMS 4640
- Stocked in random lengths depending on size
- Aluminum nickel bronze is widely used when greater strength than aluminum bronze is required, such as for cam bearings, pump agitators, shafts and aircraft parts.

Size	Lbs/In	Lbs/Ft	Part Number
$\frac{3}{8}$	.030	.360	201436
$\frac{7}{16}$	.041	.494	420527
$\frac{1}{2}$	.053	.640	201460
$\frac{9}{16}$	.068	.810	201486
$\frac{5}{8}$	.085	1.016	201517
$\frac{11}{16}$	.101	1.210	460250
$\frac{3}{4}$	.120	1.440	201575
$\frac{13}{16}$	.139	1.670	460268
$\frac{7}{8}$	.163	1.956	201591
$\frac{15}{16}$	.188	2.250	460276
1	.213	2.550	201648
1 $\frac{1}{8}$	.269	3.230	201672
1 $\frac{3}{16}$	.301	3.610	477320
1 $\frac{1}{4}$	.333	4.000	201703
1 $\frac{3}{8}$	.403	4.830	201737
1 $\frac{1}{2}$	.479	5.750	201761
1 $\frac{5}{8}$	.562	6.740	201795
1 $\frac{3}{4}$	.653	7.830	201826
1 $\frac{7}{8}$	.748	8.980	201850
2	.863	10.350	201884
2 $\frac{1}{8}$	.962	11.540	201915
2 $\frac{1}{4}$	1.078	12.940	201949
2 $\frac{3}{8}$	1.201	14.410	201973
2 $\frac{1}{2}$	1.331	15.970	202000
2 $\frac{5}{8}$	1.467	17.600	202034
2 $\frac{3}{4}$	1.610	19.320	202068
2 $\frac{7}{8}$	1.759	21.110	460828
3	1.916	22.990	202092
3 $\frac{1}{8}$	2.083	25.000	460284
3 $\frac{1}{4}$	2.248	26.980	202123
3 $\frac{1}{2}$	2.608	31.300	202181

2 $\frac{3}{4}$ " and smaller - Lengths are random 12 foot.

3" and larger - Lengths are progressively shorter.

Dimensions are in inches. All weights are approximate.

Sizes not shown may be available upon request.

Bronze Rod & Bar

Aluminum Nickel Bronze Round Rod (continued)

Size	Lbs/In	Lbs/Ft	Part Number
3 ³ / ₄	2.993	35.920	202212
4	3.406	40.872	202238
4 ¹ / ₄	4.075	48.900	202262
4 ¹ / ₂	4.553	54.636	202296
4 ³ / ₄	5.000	60.000	460307
5	5.592	67.104	202327
5 ¹ / ₂	6.720	80.640	454186*
6	7.990	95.880	202351*
6 ¹ / ₂	9.150	109.800	472045*
8	13.666	164.000	476895*

*ASTM B 150 only

2 ³/₄" and smaller - Lengths are random 12 foot.

3" and larger - Lengths are progressively shorter.

Dimensions are in inches. All weights are approximate.

Sizes not shown may be available upon request.

Manganese Bronze Round Rod



- UNS Designation Number: UNS C67500
- Nominal Chemicals: Copper 58.50%, Zinc 39.25%, Tin 1.00%, Iron 1.00%, Manganese 0.25%
- Average Physical Properties: Half Hard Temper, Tensile 80,000 psi, Yield 50,000 psi, Hardness B75, Elongation 20%
- Specifications: ASTM B 138, Temper H02 (1/2 Hard)
- Stocked in 12 foot random lengths
- Basically a tin bronze, manganese is added to serve as a deoxidizer. Its principal characteristics are high strength, toughness and excellent resistance to corrosion. This alloy has important marine applications such as propellers, rudders and non-magnetic mountings.

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
3/4	1.600	19.200	203234
1	2.850	34.200	203268
1 1/4	4.450	53.400	203323
1 1/2	6.410	76.920	203357
1 3/4	8.730	104.760	203381
2	11.400	136.800	203412
2 1/4	14.410	172.920	203446
2 1/2	17.600	211.200	203470
3	25.700	308.400	203501
3 1/4	30.110	361.320	203535
4	45.500	546.000	203569
5	71.300	855.600	203593

Naval Bronze Round Rod, Non-Leaded

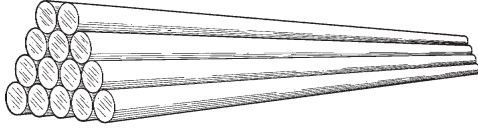
- UNS Designation Number: UNS C46400
- Nominal Chemicals: Copper 60.00%, Zinc 39.25%, Tin 0.75%
- Average Physical Properties: Tensile 70,000 psi, Yield 27,000 psi, Temper (As Extruded, about 1/2 Hard), Elongation 22%
- Specifications: ASTM B 21, Temper H02 (1/2 Hard)
- Stocked in 12 foot random lengths
- This alloy has excellent strength and corrosion resistance, fair machining qualities and is hot headed and hot forged.

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
1/4	.179	2.150	203886
5/16	.279	3.350	203917
3/8	.402	4.824	203941
1/2	.716	8.592	203975
5/8	1.119	13.428	204036
3/4	1.610	19.320	204060
7/8	2.190	26.290	204094
1	2.862	34.340	204125
1 1/8	3.622	43.460	204183
1 1/4	4.471	53.500	204159
1 3/8	5.410	64.920	204214
1 1/2	6.438	77.260	204248

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
1 3/4	8.763	105.156	204337
2	11.450	137.400	204395
2 1/4	14.490	173.880	204450
2 1/2	17.880	214.560	127064
3	25.790	309.480	204604
3 1/2	35.050	420.600	204662
4	45.780	549.360	204727
4 1/4	51.750	621.000	204751
5	71.630	716.300	204785
6	102.000	816.000	204840
8	183.100	1098.720	204874

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Phosphor Bronze Round Rod



- UNS Designation Number: UNS C51000
- Nominal Chemicals: Copper 94.75%, Tin 5.00%, Phosphorus 0.25%
- Average Physical Properties: Tensile 80,000 psi, Yield 55,000 psi, Hardness B80, Elongation 20%
- Machinability = 20, Electrical Conductivity 15% IACS
- Specifications: ASTM B 139, Temper H04 (Hard)
- Stocked in random lengths depending on size
- The outstanding characteristic of this alloy is its resistance to fatigue. It is used where high strength, great rigidity, resistance to corrosion and frictional wear are imperative.

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
1/4	.189	2.268	208098
1 1/4	4.712	56.540	208064
1 3/4	9.240	110.880	275833
2	12.120	145.440	208153
2 1/2	18.900	226.800	208187
2 3/4	22.800	273.600	234942
3	28.230	338.760	208218
4	50.170	602.040	208276
5	78.410	940.920	208331
6	109.000	1308.000	208357

Silicon Bronze Round Rod

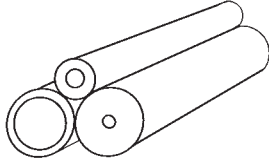
- UNS Designation Number: UNS C65500
- Nominal Chemicals: Copper 95.80%, Manganese 1.10%, Silicon 3.10%
- Average Physical Properties: Hard Temper, Tensile 85,000 psi, Yield 55,000 psi, Elongation 20%
- Machinability = 30, Electrical Conductivity 7% IACS
- Specifications: ASTM B 98, Temper H04 (Hard)
- Stocked in 12 foot lengths
- This copper-silicon alloy is characterized by high strength and exceptional resistance to corrosion. It has the strength and toughness of mild steel, is excellent for both hot and cold working and is readily welded. It is widely used for pole line and marine hardware.

Size	Lbs/Ft	Lbs/12 Ft Length	Part Number
1/4	.181	2.172	210249
5/16	.283	3.400	210273
3/8	.408	4.900	210304
1/2	.726	8.710	210338
5/8	1.134	13.610	210362
3/4	1.633	19.600	210396
7/8	2.222	26.664	210427
1	2.903	34.840	210451
1 1/4	4.536	54.430	210485
1 1/2	6.531	78.370	210516
2	11.610	139.320	210540
2 1/2	18.060	216.720	481963
3	26.130	313.560	210574

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze Rod & Bar

SAE 660 Bearing Bronze Hollow Bar



- UNS Designation Number: UNS C93200
- Nominal Chemicals: Copper 83.0%, Tin 7.0%, Lead 7.0%, Zinc 3.0%
- Minimum Physical Properties: Tensile 35,000 psi, Yield 20,000, Elongation 10%
- Specifications: ASTM B 505, Alloy 932, SAE 660
- This famous SAE 660 alloy provides bearing characteristics of balanced excellence. It is stocked in 105" bars and can be cut to specific lengths as required. These machinable bronze bars are used chiefly for making maintenance bearings, parts or repairs to machinery in your own shop.

ID	OD	Lbs/ln	Part Number
1/2	3/4	.114	126848
	1	.227	189545
	1 1/8	.298	189579
	1 1/4	.379	189600
	1 1/2	.565	189634
	1 3/4	.781	189668
	2	1.029	189692
5/8	1 1/8	.265	189723
	1 1/4	.344	189757
	1 1/2	.529	189812
3/4	1	.149	189846
	1 1/8	.236	189870
	1 1/4	.302	189901
	1 3/8	.390	189935
	1 1/2	.487	189969
	1 3/4	.705	190025
	2	.951	190059
	2 1/4	1.239	190083
	2 1/2	1.554	190114
7/8	1 1/8	.184	190148
	1 3/8	.340	190172
	1 1/2	.438	492558
	1 5/8	.541	190203
	1 7/8	.718	586860
	2	.902	190237
1	1 1/4	.190	190261
	1 3/8	.280	127137
	1 1/2	.378	190295

ID	OD	Lbs/ln	Part Number
1	1 5/8	.483	190326
	1 3/4	.595	190350
2		.846	190415
	2 1/4	1.124	190449
	2 1/2	1.439	190473
	2 3/4	1.796	190504
	3	2.184	190538
	3 1/4	2.604	190562
	3 1/2	3.045	190596
	4	4.116	190627
1 1/8	1 5/8	.419	190651
	2 1/2	1.376	190716
1 1/4	1 1/2	.232	190740
	1 3/4	.455	190774
	2	.714	190805
	2 1/8	.837	190839
	2 1/4	.986	190863
	2 1/2	1.302	190928
	2 3/4	1.649	190952
	3	2.048	190986
	4	3.99	191013
1 3/8	1 3/4	.389	191047
	1 7/8	.490	191071
	2	.616	191102
	2 1/8	.753	191136
	2 1/4	.904	191160
	2 1/2	1.218	191225
	2 3/4	1.565	191283

Dimensions are in inches. All weights are approximate. Sizes not shown may be available upon request.

Tolerances

Inside Diameter

Up to 4"Minus 1/32"
 4" and over.....Minus 3/32"

Outside Diameter

Up to 4"Plus 1/32"
 4" to 5".....Plus 1/16"
 5" and over.....Plus 3/32"

Bronze Rod & Bar

SAE 660 Bearing Bronze Hollow Bar (continued)

ID	OD	Lbs/ln	Part Number
1 3/8	3	1.964	191314
1 1/2	1 3/4	.270	127145
	2	.529	191348
	2 1/8	.629	241143
	2 1/4	.809	191372
	2 3/8	.958	191403
	2 1/2	1.120	191437
	2 5/8	1.302	191461
	2 3/4	1.481	191495
	3	1.850	191526
	3 1/2	2.730	191576
	4	3.801	191607
	4 1/2	4.935	191631
1 5/8	2 1/8	.561	191665
1 3/4	2	.324	454704
	2 1/4	.602	191720
	2 3/8	.715	241127
	2 1/2	.918	191754
	2 5/8	1.103	191788
	2 3/4	1.281	191819
	3	1.670	191877
	3 1/4	2.090	191908
	3 1/2	2.520	191932
	4	3.591	191966
1 7/8	2 3/8	.636	192027
	2 1/2	.802	192051
2	2 1/2	.680	192085
	2 3/4	1.031	192116
	2 7/8	1.229	192140
	3	1.428	192174
	3 1/4	1.848	192205
	3 1/2	2.289	192239
	3 3/4	2.772	192263
	4	3.350	192289
	4 1/2	4.494	192310
	5	5.765	192344
	6	8.715	192409

ID	OD	Lbs/ln	Part Number
2 1/8	2 5/8	.717	192433
2 1/8	2 3/4	.891	192467
2 1/4	2 3/4	.753	192522
	3	1.145	192580
	3 1/4	1.565	192611
	3 1/2	2.006	192645
	3 3/4	2.499	192679
	4	2.900	241088
	4 1/4	3.633	192700
2 3/8	2 7/8	.798	192734
	3	.999	192768
	3 1/4	1.418	192792
	3 1/2	1.859	192823
2 1/2	3	.851	192881
	3 1/4	1.260	192946
	3 1/2	1.712	192970
	3 3/4	2.205	193007
	4	2.772	193031
	4 1/2	3.906	193065
	5	5.198	193099
	5 1/2	6.615	193120
	6	8.805	193154
2 3/4	3 1/4	.962	454699
	3 1/2	1.330	193219
	3 3/4	1.848	193243
	4	2.460	193277
	4 1/4	2.982	193308
	4 1/2	3.990	193332
	4 3/4	4.200	193366
3	3 1/2	.991	193390
	3 3/4	1.481	193421
	4	2.095	193455
	4 1/4	2.625	193489
	4 1/2	3.192	193510
	4 3/4	3.750	241054
	5	4.463	193544
	5 1/2	5.880	193578

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Tolerances

Inside Diameter

Up to 4"Minus 1/32"
 4" and over.....Minus 3/32"

Outside Diameter

Up to 4"Plus 1/32"
 4" to 5"Plus 1/16"
 5" and over.....Plus 3/32"

Bronze Rod & Bar

SAE 660 Bearing Bronze Hollow Bar (continued)

ID	OD	Lbs/In	Part Number
3	6	7.455	193609
	6 1/2	9.080	492566
	7	10.560	492574
3 1/4	4	1.680	193633
	4 1/4	2.205	193667
	4 1/2	2.793	193691
	5	4.074	193714
3 1/2	4	1.239	193772
	4 1/4	1.820	492582
	4 1/2	2.363	193803
	4 3/4	2.982	193837
	5	3.644	193861
	5 1/2	5.040	193887
3 3/4	4 1/2	1.901	193976
	4 3/4	2.499	194003
	5	3.150	194037
	6	6.090	194095
	6 1/2	8.295	193942
4	4 1/2	1.428	194126
	4 3/4	1.995	194150
	5	2.625	194184
	5 1/2	4.095	194215
	6	5.670	194249
	6 1/2	7.350	194273
	7	9.135	194304
	7 1/2	11.025	194338
	8	13.125	194362
	8 1/2	15.225	194396
4 1/4	5	2.230	492590
	5 1/4	3.115	194396
4 1/2	5	1.733	194427
	5 1/2	3.045	194451
	6	4.620	194485
	6 1/2	6.300	194516
	7	8.085	194540
4 3/4	6	4.095	194605
	6 1/2	6.050	241062
5	5 1/2	2.086	442587

ID	OD	Lbs/In	Part Number
5	6	3.534	194639
	6 1/2	5.040	194663
	7	6.930	194697
5 1/2	7 1/2	8.799	183345
	8	11.025	194728
	9	15.830	127161
	6	2.276	437176
5 3/4	6 1/2	3.780	194786
	7	5.610	492605
	7 1/2	7.455	194817
6	6 3/4	3.990	287660
	7 1/2	6.900	127179
	6 1/2	2.352	457760
	6 3/4	3.250	492613
	7	4.200	194841
	7 1/2	5.985	194875
	8	8.295	194906
	8 1/2	10.500	194930
	9	11.970	194964
	6 1/2	7 1/2	4.410	194998
7	8	6.615	195017
	8	4.790	492621
	9	9.450	195041
	9 1/2	11.770	517382
	8	9	5.429	195075
8	9 1/2	7.940	492639
	10	10.477	127195
	11	16.290	260375
	8 1/2	9 1/2	5.832	419550
9	10	6.270	234730
	10 1/2	8.700	492647
	11	11.710	492655
10	11	6.710	234756
	12	12.590	437736
	14	26.160	506268
12	14	15.530	492663
	15	17.03	461214

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Inside Diameter

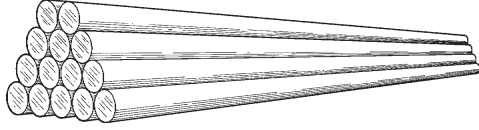
Up to 4"Minus 1/32"
 4" and over.....Minus 3/32"

Tolerances

Outside Diameter

Up to 4"Plus 1/32"
 4" to 5"Plus 1/16"
 5" and over.....Plus 3/32"

Solid SAE 660 Bearing Bronze Round Rod



- UNS Designation Number: UNS C93200
- Nominal Chemicals: Copper 83.0%, Tin 7.0%, Lead 7.0%, Zinc 3.0%
- Average Physical Properties: Tensile 40,000 psi, Yield 22,000 (Min), Elongation 15%
- Specifications: ASTM B 505, Alloy 932, SAE 660, MIL-B-16261 Grade 6, Comp. 12

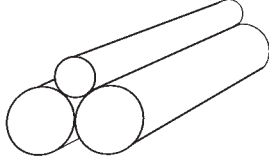
Size	Lbs/In	Lbs/Length	Part Number
$\frac{3}{8}$	.048	5.040	511116
$\frac{1}{2}$	.076	7.980	195106
$\frac{5}{8}$	.113	11.865	195130
$\frac{3}{4}$	.162	17.010	195164
$\frac{7}{8}$	.217	22.785	195198
1	.282	29.610	195229
1 $\frac{1}{8}$	.354	37.170	195253
1 $\frac{1}{4}$	.436	45.780	195279
1 $\frac{3}{8}$	.523	54.915	106416
1 $\frac{1}{2}$	.620	65.100	195300
1 $\frac{5}{8}$	.726	76.230	195326
1 $\frac{3}{4}$	.840	88.200	195350
2	1.082	113.610	195384
2 $\frac{1}{8}$	1.229	129.045	195415
2 $\frac{1}{4}$	1.376	144.480	195449
2 $\frac{3}{8}$	1.523	159.915	195473
2 $\frac{1}{2}$	1.691	177.555	195504

Size	Lbs/In	Lbs/Length	Part Number
2 $\frac{5}{8}$	1.869	196.245	195538
2 $\frac{3}{4}$	2.048	215.040	195562
3	2.436	255.780	195596
3 $\frac{1}{4}$	2.877	302.085	106432
3 $\frac{1}{2}$	3.308	347.340	195619
3 $\frac{3}{4}$	3.780	396.900	195643
4	4.358	457.590	195677
4 $\frac{1}{4}$	4.914	515.970	195708
4 $\frac{1}{2}$	5.492	576.660	195732
5	6.773	711.165	195790
5 $\frac{1}{2}$	8.369	878.745	106458
6	9.765	1025.325	195821
6 $\frac{1}{2}$	11.445	1202.725	195855
7	13.230	1389.150	195871
8	17.430	1830.150	195902
9	22.313	2342.865	195936
10	27.400	2877.000	127234

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze Rod & Bar

Solid Sintered Bearing Bronze Bars (SAE 841)



- Nominal Chemicals: Copper 90%, Tin 10%
- Average Physical Properties: Density 6.4-6.8 g/c.c., Strength Constant (k) 22,500, Porosity 18% Min
- Specifications: SAE 841, ASTM B 438
- Stocked in 6 1/2" lengths
- After forming, sintering and sizing, the finished bearings are impregnated with SAE 30 high grade, non-detergent mineral oil conforming to MIL-L-15016A.

Size	Lbs/ln	Part Number
1/2	.388	128214
5/8	.579	128230
3/4	.808	128256
1	1.379	128272
1 1/4	2.103	128298
1 1/2	2.979	128311
2	5.188	128337
2 1/2	8.004	128353
3	12.000	421125
3 1/4	14.000	581739

Tubular sintered bronze is also available on application.

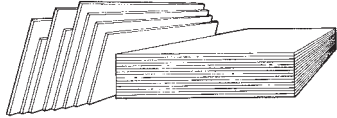
Prices and delivery of non-stock items are available upon request.

Dimensions are in inches. All weights are approximate.

Sizes not shown may be available upon request.

Bronze Sheet & Plate

Aluminum Bronze Sheet & Plate



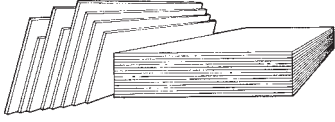
- UNS Designation Number: UNS C61400
- Nominal Chemicals: Copper 91.0%, Aluminum 7.0%, Iron 2.0%, Zinc 0.2%
- Average Physical Properties: Tensile 85,000 psi, Yield 35,000 psi, Elongation 42%, Brinell Hardness = 153
- Machinability = 30, Electrical Conductivity 14% IACS
- Specifications: ASTM B 169, ASME SB-169, Temper M20 (Soft)
- Aluminum bronze has high strength, wear resistance and excellent weldability.

Size	Thickness	Size of Sheet	Lbs/Sq Ft	Lbs/Sheet	Part Number
.063		36 x 96	2.781	66.744	491659
$\frac{1}{8}$	.125	36 x 120	5.130	153.900	203658
$\frac{1}{8}$	.125	40 x 133 $\frac{1}{2}$	5.130	190.240	499217
$\frac{3}{16}$	.188	48 x 120	7.700	307.800	267602
$\frac{1}{4}$	.250	36 x 84	10.750	225.750	490467
$\frac{1}{4}$	.250	48 x 120	10.750	430.000	203705
$\frac{3}{8}$	.375	48 x 120	15.390	615.600	203739
$\frac{3}{8}$	.375	49 x 120	15.390	628.425	584216
$\frac{1}{2}$	.500	36 x 120	20.520	615.600	584232
$\frac{1}{2}$	.500	39 x 120	20.520	666.900	584224
$\frac{1}{2}$	.500	48 x 120	20.520	820.800	203763
$\frac{1}{2}$	.500	48 x 144	20.520	985.000	636835
$\frac{3}{4}$	.750	48 x 120	32.190	1231.000	127030
$\frac{3}{4}$	.750	48 x 144	32.190	1483.000	636631
1	1.00	48 x 120	41.040	1641.600	107755
1 $\frac{1}{2}$	1.50	48 x 96	64.380	2060.160	420632
1 $\frac{1}{2}$	1.50	48 x 144	64.380	3090.240	636649
2	2.00	48 x 72	86.000	2064.000	420640

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze Sheet & Plate

Naval Bronze Sheet & Plate



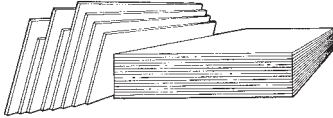
- UNS Designation Number: UNS C46400
- Nominal Chemicals: Copper 60.0%, Zinc 39.25%, Tin 0.75%
- Average Physical Properties: Tensile 52,000 psi, Yield 25,000 psi, Elongation 40%
- Machinability = 30, Electrical Conductivity 26% IACS
- Specifications: ASTM B 171
- A general all purpose bronze.

Gauge	Thickness	Size of Sheet	Lbs/Sq Ft	Lbs/Sheet	Part Number
18	.040	36 x 120	1.760	52.800	207589
18	.040	48 x 120	1.760	70.400	464898
16	.050	36 x 96	2.220	53.380	207610
14	.063	36 x 120	2.820	84.720	207644
$\frac{3}{32}$	.093	24 x 96	4.110	65.760	207678
$\frac{1}{8}$	.125	48 x 120	5.500	220.000	207733
$\frac{3}{16}$	.188	48 x 120	8.210	328.400	471942
$\frac{1}{4}$	.250	48 x 120	11.020	440.800	207856
$\frac{5}{16}$	.313	48 x 120	13.680	547.200	207880
$\frac{3}{8}$	.375	48 x 120	16.410	656.400	207911
$\frac{1}{2}$	.500	48 x 120	22.000	1100.000	513825
$\frac{1}{2}$	.500	48-60 x 120-144	22.000		636047
$\frac{5}{8}$	.625	36 x 96	27.100	650.400	207979
$\frac{5}{8}$	.625	36 x 120 $\frac{1}{2}$	27.100	816.388	674875
$\frac{3}{4}$	.750	36 x 120	32.820	984.600	453619
$\frac{3}{4}$	.750	48-60 x 120-144	32.820		636055
1	1.00	48-60 x 120-144	43.780		636576
1	1.00	60 x 120	43.780	2189.000	445747
1 $\frac{1}{4}$	1.25	48 x 120	54.800	2192.000	207432
1 $\frac{1}{2}$	1.50	36 x 120	65.670	2025.000	207466
2	2.00	36 x 96	87.560	2101.000	207490
3	3.00	36 x 72	131.000	2358.000	207513

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze Sheet & Plate

Silicon Bronze Sheet & Plate



- UNS Designation Number: UNS C65500
- Nominal Chemicals: Copper 95.8%, Silicon 3.1%, Manganese 1.1%
- Average Physical Properties: Tensile 60,000 psi, Yield 25,000 psi, Elongation 50%, Hardness B60
- Machinability = 30, Electrical Conductivity 17% IACS
- Specifications: ASTM B 96, ASME SB-96, Hot Rolled
- This copper-silicon alloy has excellent weldability and is often used in the manufacture of pressure vessels.

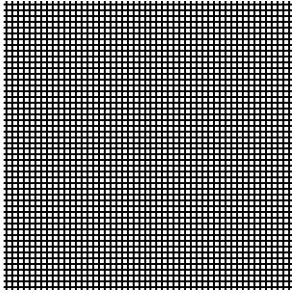
Size	Thickness	Size of Sheet	Lbs/Sq Ft	Lbs/Sheet	Part Number
.063		22 - 24 x COIL *	2.900		417809
.063		24 x 120*	2.900	57.400	202717
.083		22 - 24 x COIL *	3.700		412273
.083		24 x 120*	3.680	73.600	418326
.109		22 - 24 x COIL *	4.800		412281
.109		24 x 120*	4.880	97.500	202775
$\frac{1}{8}$	.125	22 - 24 x COIL *	5.600		412401
$\frac{1}{8}$	.125	24 x 120*	5.600	107.300	202806
$\frac{1}{8}$	.125	48 x 96	5.600	179.200	202830
$\frac{3}{16}$	.188	22 - 24 x COIL *	8.500		417794
$\frac{3}{16}$	.188	24 x 120*	8.500	169.600	202864
$\frac{3}{16}$	.188	48 x 96	8.500	272.000	202898
$\frac{1}{4}$	.250	48 x 120	11.200	448.000	202953
$\frac{3}{8}$	.375	48 x 120	16.800	672.000	202995
$\frac{1}{2}$	.500	48 x 120	22.400	896.000	203022
$\frac{5}{8}$	.625	24 x 120	27.700	554.000	203056
$\frac{3}{4}$	.750	48 x 120	33.600	1344.000	203080
1	1.00	48 x 120	44.800	1792.000	420755

*Random widths are 22" - 24".

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

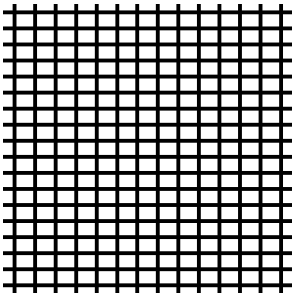
Bronze Wire and Wire Cloth

Bronze Wire Cloth



Size	Wire Diameter	Roll Width	Lbs/SF	Part Number
50 x 50	.009	36 x COIL	.319	100127

Bronze Insect Screen

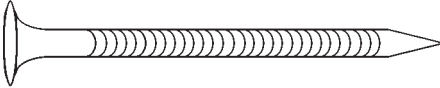


Size	Wire Diameter	Roll Width	Lbs/SF	SF/100 FT	Part Number
18 x 14	.011	36 x COIL	.145	300	100460
18 x 14	.011	48 x COIL	.145	400	100494

Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request.

Bronze

Silicon Bronze Ring Nail



Gauge	Thickness	Ft/Lb	Part Number
14	$\frac{7}{8}$	617.000	120729
14	1	536.000	216384
14	$1 \frac{1}{4}$	424.000	216423
12	$1 \frac{1}{2}$	204.000	216457
12	2	130.000	216504
10	$2 \frac{1}{2}$	83.000	216546

Dimensions are in inches. All weights are approximate. Sizes not shown may be available upon request.

Notes

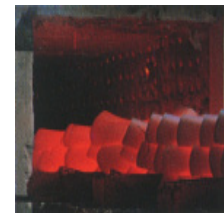
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Since our beginning in 1913, the **Alaskan Quality Program** has been continually analyzed, revised and improved to meet the increasing challenges and complexity of specifications for piping, fittings, and custom fabrication. Our current **Quality Program** allows us to create an assignment of responsibility for engineering, drafting, layout, purchasing, scheduling, fabrication, examination, documentation and packaging. Thus our goal...conformance to specification...is consistently shared with you, the Purchaser.

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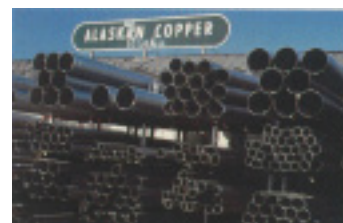


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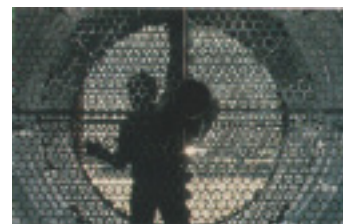


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