

A full service metals supplier committed to 100% total satisfaction accomplished through outstanding source partnerships and teamwork with our customers.

## ALLOY STEEL

8620	86L20	E4320
E3310	E9310 VAR	E8620
8620 Bismuth	4820	E9310
4130	E4140	4142
4150	4340	E4340 VAR
E8740	E4130	4330 V MOD
4140	41L40	41L42
4150 MRS HT	E4340	E6150
E.T.D. 150	E4145M	8630 MOD
E52100		

## ALUMINUM BAR

1100-O	2011-T3	2017-T4
2017-T451	2024	3003-O
4032-T6	4032-T651	5083-O
5086-O	6020	6061-O
6101-T61 Buss bar	6061-T6511 Extruded	6063-T6
6262-T6	6262-T651	6262-T6511 Extruded
7075-T6		

## ALUMINUM BRONZES

C610 Aluminum Bronze 7%	C613 Aluminum Bronze 7%	C614 Aluminum Bronze 7%
C618 Aluminum Bronze 10%	C623 Aluminum Bronze 9%	C624 Aluminum Bronze 10.5%
C625 Aluminum Bronze 9%	C630 Nickel Aluminum Bronze 10%	C632 Nickel Aluminum Bronze 9%
C642 Aluminum Bronze		

## ALUMINUM COIL

1100-H14	3003-H14	5052-H32
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## ALUMINUM PIPE

6063-T6	6061-T6	
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## ALUMINUM PLATE

1100-O	1100-H14	2024-O
2024-T351 Bare	2024-O Alclad	3003-O
3003-H14	5052-H112	5086-O
5086-H34	6061-O	6061-T4
6061-T6	6061-T651	7075-T651
Jig plate	Cast tooling plate	6061-T6 Tread plate
3003-H22 Tread plate		

## ALUMINUM SHEET

1100-O	1100-H14	1100-H18
1100 Dead soft	1100 Half hard	2024-O
2024-T3 Bare	2024-T3 Alclad	3003-O
3003-H14	5052-O	5052-H32
5052-H34	5083-O	5083-H321
5086-O	5086-H34	6061-O
6061-T4	6061-T6	6061-T6511
7075-O	7075-T6	7075-T651

## ALUMINUM STRUCTURAL FORMS

I-beams	Angles	Channels
Tees	Zees	

## ALUMINUM TEMPERS

F	A	H
W	T	H1
H111	H112	H2
H3	H311	H321
H323	T1	T2
T3	T31	T351
T3511	T36	T37
T4	T42	T451
T4511	T5	T51
T52	T54	T6
T61	T611	T62
T651	T6510	T6511
T652	T7	T73
T7451	T73511	T7352
T8	T81	T851
T8511	T86	T87
T9	T10	

## COPPERS (HIGH PURITY)

C101 Oxygen Free Electronic Copper	C102 Oxygen Free Copper	C103 Oxygen Free Extra Low Phosphorus
C104 Oxygen Free Copper w/ Silver	C105 Oxygen Free Copper with Silver	C107 Oxygen Copper Free with Silver
C108 Oxygen Free Extra Low Phosphorus Copper	C110 Electrolytic Tough Pitch (ETP)	C113 Tough Pitch Copper w/ Silver
C114 Tough Pitch Copper w/ Silver	C115 Tough Pitch Copper w/ Silver	C116 Tough Pitch Copper w/ Silver
C120 Phosphorus-Deoxidized, Low Residual Phosphorus Copper	C121 Phosphorus-Deoxidized, Low Residual Phosphorus Copper	C122 Phosphorus-Deoxidized, Low Residual Phosphorus Copper
C129 Fire-refined, Tough Pitch w/ Silver Copper	C145 Tellurium-Bearing Copper	C147 Sulfur-Bearing Copper
C150 Zirconium Copper	C157 Aluminum Oxide Dispersion-Strengthened	

## CAST BRONZE ALLOYS

C836 Leaded Red Brass (SAE40)	C844 Leaded Semi-Red Brass	C862 Manganese Bronze (SAE 430A)
C863 Manganese Bronze (SAE 430B)	C864 Manganese Bronze	C865 Manganese Bronze (SAE 43)
C902 Tin Bronze	C903 Tin Bronze (Navy G)	C905 Tin Bronze (SAE 62)
C907 Tin Bronze (SAE65)	C910 Tin Bronze	C911 Tin Bronze
C917 Nickel Tin Bronze	C922 Leaded Tin Bronze (Navy M)	C923 Leaded Tin Bronze
C925 Leaded Tin Bronze	C926 Commercial Leaded Tin Bronze	C927 Leaded Tin Bronze
C928 Leaded Tin Bronze	C929 Leaded Nickel Tin Bronze	C932 High Lead Tin Bronze (SAE 660)
C934 High Lead Tin Bronze	C936 High Lead Tin Bronze (Modified SAE 64)	C937 High Lead Tin Bronze (SAE 64)
C938 High Lead Tin Bronze (SAE 67)	C941 High Lead Tin Bronze	C943 High Lead Tin Bronze
C948 Leaded Nickel Tin Bronze	C954 Aluminum Bronze (SAE 954)	C955 Aluminum Nickel Bronze
C95510 Aluminum Nickel Bronze	C959 Aluminum Bronze	

## FERRITIC STAINLESS STEELS

409 Stainless Steel	430F Stainless Steel	430 Stainless Steel
440C Stainless Steel		

## HIGH COPPER ALLOYS

C162 Cadmium Copper	C165 Cadmium-tin Copper	C170 Beryllium Copper
C172 Beryllium Copper	C173 Beryllium Copper	C174 Beryllium Copper
C175 Beryllium Copper	C17510 Beryllium Copper	C180 Nickel-Chromium-Silicon Copper
C181 Chromium-Zirconium-Magnesium Copper	C18135 Chromium-Cadmium Copper	C18150 Chromium-Zirconium Copper
C182 Chromium Copper	C184 Chromium Copper	C187 Leaded Copper
C191 Nickel Copper w/Tellurium	C19150 Leaded Nickel Copper	

## IRON NICKEL CHROMIUM ALLOYS

Alloy 800	Alloy 800HT	Alloy 801
Alloy 802	Alloy 825	Alloy 925

## LEADED BRASSES

C314 Leaded	C316 Leaded	C320 Red Leaded Brass
C335 Low Leaded Brass	C340 Medium Leaded Brass	C342 High Leaded Brass
C345 Leaded Brass	C350 Medium Leaded Brass	C353 High Leaded Brass
C356 Extra High Leaded Brass	C360 Free Cutting Brass	C370 Free Cutting Brass
C377 Forging Brass	C385 Architectural Bronze	

## MARTENSITIC STAINLESS STEELS

410 Stainless Steel	420 Stainless Steel	440A Stainless Steel
17-7 PH Stainless Steel	13-8 MO Stainless Steel	416 Stainless Steel
420F Stainless Steel	15-5 PH Stainless Steel	17-4 PH Stainless Steel

## MISCELLANEOUS COPPER-ZINC ALLOYS

C673 Leaded Silicon-Manganese Bronze	C675 Manganese Bronze	C693 Eco Brass
C674 Silicon-Manganese-Aluminum Bronze	C676 Manganese Bronze	C694 Silicon Red Brass
C697 Leaded Arsenical Silicon Red Brass		

## NICKEL ALLOYS

Nickel 201	Nickel 270	Nickel 200
Nickel 205	Nickel 290	

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## ALUMINUM TUBING, ROUND, RECTANGULAR & SQUARE

3003-H14	6061-T6	6061-T6511
6063-T52	6061-T6	

## ALUMINUM WIRE

1100-O	1100-H14	1100-H18
2017-T4	2024-O	2024-T351
6061-T6	6061-T651	7075-T6
7075-T73		

## AUSTENITIC STAINLESS STEELS

201 Stainless Steel	202 Stainless Steel	203 Stainless Steel
301 Stainless Steel	302 Stainless Steel	302 Condition B Stainless Steel
303 Stainless Steel	304 Stainless Steel	304 Condition B Stainless Steel
304L Stainless Steel	304L Vacuum Melt	309 Stainless Steel
310 Stainless Steel	316 Stainless Steel	316 Condition B Stainless Steel
316L Stainless Steel	317L Stainless Steel	321 Stainless Steel
347 Stainless Steel	Nitronic 40 stainless steel	Nitronic 50 Stainless Steel
Nitronic 60 Stainless Steel	15-7 MO Stainless Steel	Carpenter 20 Stainless Steel

## BRASSES

C268 Yellow Brass	C270 Yellow Brass	C220 Commercial Bronze
C230 Red Brass	C240 Low Brass	C260 Cartridge Brass
C280 Muntz Metal		

## CARBON PLATE

A36	A283	A514
A572 Grade 42	A572 Grade 50	A572 Grade 60
A572 Grade 65	A573 Grade 58	A573 Grade 65
A573 Grade 78	A588	A606
A656 Grade 50	A656 Grade 60	A656 Grade 70
A656 Grade 80	A871	A709 Grade 36
A709 Grade 50	A709 Grade 50W	Ex-Ten
Cor-Ten A	Cor-Ten B	Clean Cut
AR 200	AR 235	AR 400
AR 450	AR 500	AR 600
A515	A516 Grade 55	A516 Grade 60
A516 Grade 65	A516 Grade 70	A517
A537	A285	A204
A203	MIL-A-46100	MIL-A-12560
MIL-A-46177	A516 Grade 65	A516 Grade 70
A517	HY 80	HY 100

## CARBON STEEL

A36	1008	1010
1018	1020	1026
1117	11L17	1035
1040	1042	1045
1050	1060	1095
1141	11L41	1144
1144 Stress Proof	1215	12L14
12L14 plus Tellurium	4140	

## CONTROLLED EXPANSION NICKEL ALLOYS

Alloy 902	Alloy 903	Alloy 907
Alloy 909		

## COPPER-NICKEL- ZINC ALLOYS

C752 Nickel Silver, 65-18	C792 Leaded Nickel Silver	
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## COPPER NICKEL ALLOYS

C706 Copper Nickel 90/10	C715 Copper Nickel 70/30	C745 Nickel Silver, 65-10
C754 Nickel Silver, 65-15	C757 Nickel Silver, 65-12	

## NICKEL SILVERS

C745 Nickel Silver, 65-10	C752 Nickel Silver, 65-18	C754 Nickel Silver, 65-15
C757 Nickel Silver, 65-12	C792 Leaded Nickel Silver	

## PHOSPHUR BRONZES

C507 Phosphor Bronze	C510 Phosphor Bronze	C521 Phosphor Bronze
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## PHOSPHUR BRONZES (LEADED)

C544 Phosphor Bronze		
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## SILICON BRONZES

C651 Low Silicon Bronze	C655 High Silicon Bronze	C656 Silicon Bronze
C661 Leaded Silicon Bronze	C670 Manganese Bronze B	

## SPECIALTY METALS

Britania	Cobalt	Cast Iron
Ferralium	Hastelloy	Indium
Inconel	Kovar	Lead
Invar	Lithium	Monel 400 Series
Magnesium	Monel K-500	Niobium
Rodar	Permalloy	Silver
Tantalum	Tin	Tungsten
Waspaloy	Zinc	Zirconium
Chromium	Molybdenum	

## TIN BRASS

C462 Naval Brass	C464 Naval Brass	C482 Naval Brass
C485 Naval Brass		

## TITANIUM

Alloy Grade 5 (6AL-4V)	Titanium 10-2-3	Titanium 13-11-3
Titanium 15-3-3-3	Titanium 3-2.5	Titanium 3-8-6-4-4
Titanium 5-2.5	Titanium 5-2.5 ELI	Titanium 6-2-2-2-.25
Titanium 6-2-4-2	Titanium 6-2-4-2-.1	Titanium 6-2-4-6
Titanium 6-4	Titanium 6-4 ELI	Titanium 6-6-2
Titanium 8 MN	Titanium 8-1-1	Titanium CPG 1
Titanium CPG 2	Titanium CPG 3	Titanium CPG 4
Titanium CPG 7	Titanium Grade 12 (0.3Mo + 0.8 Ni)	Titanium Grade 9 (3AL-2.5V)
Titanium Palladium Grades 16 & 17	Titanium Palladium Grades 7 & 11	

## TOOL STEEL

A2	A6	A7
D2	D3	D7
H13	L6	O1
O6	M2	M42
P20	S5	S7
CPM 1V	CPM 3V	CPM 4V
CPM 9V	CPM 10V	CPM 15V

## WROUGHT BRONZE ALLOYS

C510 Phosphor Bronze 5% A	C521 Phosphor Bronze 8% C	C534 Phosphor Bronze B-1
C544 Phosphor Bronze B-2	C614 Aluminum Bronze	C623 Aluminum Bronze 9%
C630 Nickel Aluminum Bronze (AMS 4640)	C63020 Aluminum Bronze	C632 Aluminum Bronze
C642 Aluminum Bronze (AMS 4634B)	C651 Low Silicon Bronze B	C655 Silicon Bronze
C673 Leaded Silicon-Manganese Bronze	C67410 Silicon - Manganese-Aluminum Bronze	C675 Manganese Bronze
C676 Copper Zinc	C693 Eco Brass	C694 Silicon Red Brass
C729 Nickel Bronze		

## VALUE ADDED SERVICES

Blanchard Grinding	Lathe-Cut Tube/Pipe	Burning
Machining	Centerless Grinding	Normalizing
CNC Laser Cutting	Painting	CNC Plasma Cutting
Perforating	CNC Punching	Plate & Structural Rolling
CNC Waterjet Cutting	Precision Sawing	Coil Blanking
Sand/Shot Blasting	Coil Cut-To-Length	Shearing
Cold Sawing	Slitting	Contour Sawing
Spinning	Electroplating	Straightening
Forming	Stress Relieving	Galvanizing
Threading	Heat Treating	Tube/Pipe Fabrication
Honing	Welding	