

<b>ALUMINUM PLATE-SPECIFICATIONS</b>		
<b>Alloy&amp;Temper</b>	<b>Federal Specification</b>	<b>AMS Specification</b>
2024-T351	QQ-A-250/4	AMS 4033
6061-T651	QQ-A-250/11	AMS 4027
7075-T651	QQ-A-250/12	AMS 4038

<b>ALUMINUM PLATE-SIZES</b>	
<b>Thickness</b>	<b>Est.Wt.Lbs. Per Sq.Ft.*</b>
.250	3.64
.313	4.56
.375	5.45
.500	7.27
.625	9.09
.750	10.9
.875	12.7
1.000	14.5
1.250	18.2
1.500	21.8
1.750	25.5
2.000	29.1
2.250	32.7
2.500	36.4
2.750	40.0
3.000	43.6
3.500	50.9
4.000	58.2
5.000	72.7
6.000	84.7

<b>ALUMINUM BARS</b>		
<b>Alloy&amp;Temper</b>	<b>Federal Specification</b>	<b>AMS Specification</b>
2017-T4,-T451	QQ-A-225/5	AMS 4118
2024-T351	QQ-A-225/6	AMS 4119
2024-T4	QQ-A-225/6	AMS 4120
2024-T3	QQ-A-200/3	AMS 4152
2024-T3510	QQ-A-200/3	AMS 4164
2024-T3511	QQ-A-200/3	AMS 4165
6061-T6,-T651	QQ-A-225/8	AMS 4117
6061-T6	QQ-A-200/8	AMS 4150
6061-T6511	QQ-A-200/8	AMS 4173
7075-T6	QQ-A-225/9	AMS 4122
7075-T651	QQ-A-225/9	AMS 4123
7075-T6	QQ-A-200/11	AMS 4154
7075-T6510	QQ-A-200/11	AMS 4168
7075-T6511	QQ-A-200/11	AMS 4169

## STAINLESS STEEL

ALLOY/FORM	AMS
<b>SHEET</b>	
301,Flat	5517/5518
302/304,Flat,Coil A240	5513/5516
304L,Flat,Coil	5511
316,Flat,Coil	5524
316L,Flat,Coil	5507
321,Flat,Coil	5510
347,Flat,Coil	5521
410,Flat	5504
430,Flat	5503
17-4PH,Flat	5604
17-7PH,Flat,Coil	5528
<b>PLATE</b>	
304	5513
304L	5511
316	5524
316L	5507
321	5510
347	5512
410	5504
17-4PH	5604
17-7PH	5528

**STAINLESS STEEL BARS**

TYPE	SPECIFICATIONS
PH-13-8MO	AMS-5629,STM-05-602,CAP,ASTM-A-564 Grade XM13,AMS-2300,DMS2100,STO-160LB0013 HMS-6-1105
15-5 PH	AMS-5659,AMS-2300,CAP,ASTM-A-564 Grade XM-12
17-4 PH	AMS-5643,AMS-2303,MBO-160-003,Exc.Sonic,LBO-160-133,CAP,ASTM-A-564 Grade630
17-4 PH"H-1150"	AMS-5643,Chems Only,ASTM-A-564 Cond H 1150
17-4 PH Prec. Grd.	Same Specs.as Reg.17-4.
17-7 PH	AMS-5644
302	ASME-SA-479,MIL-S-7720,QQS-763,ASTM-A-276,ASTM-A-479,ASTM-A-580
302 Cond."B"	MIL-S-7720,AMS-5637 CHEMS ONLY,QQS-763
302 Prec.Grd.	MIL-S-7720,QQS-763,ASTM-A-580
303 Sul	MIL-S-7720,MIL-W-52263,AMS-5640,QQS-763,QQS-764,ASTM-A-581/582,ASTM-A-320
303 Sul Cond."B"	MIL-S-7720,MIL-W-52263,QQS-764,ASTM-A-320,GR B8F CL2,ASTM-A-581
303 Sul Prec. Grd.	MIL-S-7720,MIL-W-52263,AMS-5640 Type 1,QQS-763,ASTM-A-581/582,ASTM-A-320
303 Sel	MIL-S-7720,MIL-W-52263,AMS-5640 Type2,AMS-5641,QQS-763,QQS-764,ASTM-A-581/582,ASTM-A-320
303 Sel Cond."B"	MIL-S-7720,MIL-W-52263,ASTM-A-320,AMS-5738,QQS-763,QQS-764,ASTM-A-581
303 Sel Prec. Grd.	MIL-S-7720,MIL-W-52263,AMS-5640 Type 2,AMS-5641,QQS-763,ASTM-A-581,ASTM-A-320
304	QQS-763,AMS-5639,ASTM-A-276,ASTM-A-479,ASME-SA-479,ASTM-A-193,ASTM-A-320,ASTM-A-580
304 Cond."B"	QQS-763,ASTM-A-276,ASTM-A-193 GRD.B8 CL 2
304 Prec. Grd.	QQS-763,AMS-5639,ASTM-A-193,ASTM-A-320,ASTM-A-580
304 L	QQS-763,AMS-5647,ASTM-A-276,DMS-2050,ASTM-A-479,ASME-SA-479,ASTM-A-580
304 L.Vac. Melt.	QQS-763,AMS-5647,ASTM-S-276,MBO-160-037 Exc.Sonic&Tranv.,DMS-2050
309	QQS-763,AMS-5650,ASTM-A-276,ASTM-A-580
310	QQS-763,AMS-5651,ASTM-A-276,ASTM-479,ASME-SA-479,ASTM-A-580
316	MIL-S-7720,AMS-5648,QQS-763,ASTM-A-193,ASTM-A-276,ASTM-A-479,ASTM-A-580,ASME-SA-479,ASTM-A-320
316 Cond."B"(03 Max C)	MIL-S-7720A,QQS-7630,ASTM-A-276,ASTM-A-193,GRD B8M CL2
316 L	QQS-763,AMS-5653,ASTM-A-276,ASTM-A-479,ASME-SA-479,ASTM-A-580
317	QQS-763,ASTM-A-276,ASTM-A-580
317 L	QQS-763
321	QQS-763,AMS-5645,ASTM-A-276,ASTM-A-193,ASTM-A-479,ASME-SA-479,ASTM-A-320,ASTM-A-580
330	AMS5716
347	QQS-763,AMS-5646,ASTM-A-276,ASTM-A-193,ASTM-A-479,ASME-SA-479,ASTM-A-320,ASTM-A-580
AM-355	AMS-5743
410	QQS-763,AMS-5613,AMS-2303,AMS-5612,ASTM-A-276,ASTM-A-479,ASME-SA-479,ASTM-A-580
416	QQS-763,QQS-764,ASM-5610,MIL-W-52263,ASTM-A-581/582
416 Prec. Grd.	QQS-763,AMS-5610,MIL-W-52263,ASTM-A-581
418(Greek Ascolay)	AMS-5616
420	QQS-763,AMS-5621,ASTM-A-276,ASTM-A-580
420 F	AMS-5620 Type2,ASTM-A-581/582
430	QQS-763,AMS-5627,ASTM-A-276,ASTM-A-479,ASTM-A-580
430 F	QQS-763,QQS-764,MIL-W-52263,ASTM-A-581/582
431	MIL-S-18732,QQS-763,DMS-1565,ASTM-A-276,AMS-5628,AMS-2303,ASTM-A-580
440 A	QQS-763,AMS-5631,ASTM-A-276,ASTM-A-580
440 C	QQS-763,AMS-5630,ASTM-A-276,ASTM-A-580
440 C Prec. Grd.	QQS-763,AMS05630,ASTM-A-276,ASTM-A-580
440 F Se	QQS-764B,ASTM-A-582,AMS-5632 Type2
446	QQS-763,ASTM-A-580
Nitronic 40 (21-6-9)	AMS-5656,ASTM-A-276
Nitronic 50 (XM-19)(22-13-5)	AMS-5764A,ASME-SA-479,ASTM-A-479,ASTM-A-193GR-B8R,ASTM-A-276,ASTM-A-580
Nitronic 60	ASTM-A-479,ASTM-A-276,ASTM-A-580(S21800)
Carp. 20	ASTM-B-473

## CARBON ALLOY

ALLOY	SPECIFICATIONS
E-4130	MIL-S-6758,AMS-6370,AMS-2301
E-4130 H.T.R.C 26/32	MIL-S-6758,AMS-2301,EMS-626A
E-4140	MIL-S-5626,AMS-6382,AMS-2301
E-4330 Mod N&T	MIL-S-8699,AMS-6427,AMS-2301,BMS-7-27
E-4330 Mod.Vac.Melt. N&T	MIL-S-8699,AMS-6411,AMS-6427 BMS-7-27,AMS-2300,BMS-7-122,EMS-96242,GM-1010,CE-0906,FMS-1012
E-4340 N&T	MIL-S-5000,AMS-6415,AMS-2301
E-4340 Vac.Melt. N&T	MIL-S-8844 CL 1,MIL-S-5000,AMS-6415,AMS-2300,AMS-6414,EMS-641,DMS-1555, BMS 7-28 BPS 299-047-055
E-4340 Mod.Vac.Melt N&T "300M"	MIL-S-8844-CL 3,MIL-S-83135,AMS-6417,AMS-6419,AMS-2300,EMS-96244,CE-0896, GM-1012 BMS 7-26 CL-1 STM-05-501 DMS-1935 L C05-1190
E-4620	MIL-S-7493,AMS-6294,AMS-2301
E-6150	MIL-S-8503,AMS-6448,AMS-2301
E-8740	MIL-S-6049,AMS-6322,AMS-2301
E-9310 N&T	MIL-S-7393C,AMS-6260,AMS-2301,Alres,HT 5042
E-9310 N&T Vac.Melt.	MIL-S-7393C,AMS-6265,AMS-6260,AMS-2300,BMS 7-249,Alres,HT-5042,BPS 299-047-032 MIL-S-83030 Comp 3 AMS-6267
E-52100	MIL-S-7240,AMS-6440,AMS-2301
E-52100 Vac.Melt.	MIL-S-7420,AMS-6444,AMS-6440,AMS-2300
D6AC Vac.Melt.	MIL-S-8949,AMS-6431,Gen.Dyn.FMS-1011-C,LCM-05-2190,AMS-2300,STM-05-500, GM-1012
H-11 Vac.Melt.	AMS-6487,EMS 642,AMS 2300,AMS 6488
Hy-Tuf	MIL-S-7106,AMS-6418,AMS-2301,DMS-1841,GR B
Hy-Tuf Vac.Melt.	AMS 6418,MIL-5-7108,DMS 1841 GR A,AMS 2300
Nitriding BHN 241-285	MIL-S-6709A,AMS-6470 Exc.Hardness,AMS-6472,AMS-2301
Nitriding Vac.Melt.	MIL-S-6709A,AMS-6471-B 135 Modified,AMS-2300
9-4-30 Vac.Melt.	AMS 6526,BMS-7-182B,STO-160-LB-0012,MMS-2102 Exc.Fracture Test

## SUPER ALLOYS

AMS	ALLOY NO.	FORM	FEDERAL SPEC
4900	Ti A55,65A	Sheet	MIL-T-9046,Type 1 Comp C
4901	Ti A70,75A	Sheet	MIL-T-9046,Type 1 Comp B
4902	Ti A40,55A	Sheet	MIL-T-9046,Type 1 Comp A
4911	Ti C120AV	Sheet	MIL-T-9046,Type 111 Comp C
4918	Ti 6AL6V2SN	Sheet	MIL-T-9046,Type 111 Comp E
4921	Ti A70	Bars&Forgings	MIL-T-9047,Comp 1
4925	Ti 4AL4V	Bars&Forgings	
4928	Ti C120AV	Bars&Forgings	MIL-T-9047,Comp 6
4970	Ti 7AL 4MO	Bars&Forgings	
4971	Ti 6AL-6V2SN	Bars&Forgings	
5520	PH15-7 MO	Sheet	
5525	A286	Sheet	
5526	1-9 DL	Sheet	
5527	19-9 DL	Sheet	
5529	17-7PH	Sheet	MIL-S-25043
5530	Hastelloy C	Sheet	
5532	N155 Multimet	Sheet	
5536	Hastelloy X	Sheet	
5537	L605	Sheet	
5544	Waspaloy	Sheet	
5545	Rene 41	Sheet	
5596	Inconel 718(Soil Treated)	Sheet	
5597	Inconel 718	Sheet	
5598	Inconel X750	Sheet	
5599	Inconel 625	Sheet	
5616	Greek Ascology	Bars&Forgings	
5562	Inconel 718(Soil Treated)	Bars&Forgings	
5665	Inconel 600	Bars&Forgings	MIL-N-6710
5666	Inconel 625	Bars&Forgings	
5667	Inconel X-750	Bars&Forgings	
5668	Inconel X-750	Bars&Forgings	
5669	Inconel X-750	Bars&Forgings	
5734	A286	Bars&Forgings	
5735	A286	Bars&Forgings	
5736	A286	Bars&Forgings	
5754	Hastelloy X	Bars&Forgings	
5768	N155	Bars&Forgings	
5769	N155	Bars&Forgings	

## WELDING ROD AND FILLER WIRE

AMS	ALLOY	FEDERAL
4184	Alum 4145	QQ-B-655,C1FS-RAL Si-3
4185	Alum 4047	QQ-B-655,C1FS-RAL Si-4
4910	Alum 4043	QQ-R-566,C14043
4191	Alum 2319	QQ-P-566,C12319
4395	Mag AZ92A	MIL-W-6944,C1AZ92A
4396	Mag EZ33A	MIL-W-6944,C1E233A
4951	Ti,Comm pure	
4953	Ti,5AL-2.5SN	
4954	Ti,6A2-4V	
4955	Ti,8AL-1MO-1V	
4956	Ti,6AL-4V EL1	
5027	D6AC	
5528	D6AC(High C)	
5676	Nichrome V	MIL-R-5031,C17
5680	347	MIL-R-5031,C15
5683	Inco 42	MIL-R-5031,C18
5685	305 Safety Wire	QQ-W-423,Comp 305
5687	Incol 600	QQ-W-390
5688	Type 302 Spring	QQ-W-423,Comp FS 302
5694	Typr 310	MIL-R-5031,C13
5697	Typr 304	QQ-W-423,Comp FS304
5774	AM-350	
5776	410	
5778	Inco 69	
5780	AM355	
5782	19-9W MO	MIL-R-503,C16
5786	Hastelloy W	MIL-R-5031,C112
5789	Stellite 31	
5794	Multmet N155	MIL-R-5031,C19
5796	L605	MIL-R-5031,CL13
5798	Hastelloy X	
5800	Rene 41	
5801	Alloy 188	
5804	A286	
5805	A286(Vac Melt)	
5812	WPH15-7 MO-UM(Vac)	
5813	WPH15-7 MO	
5817	Greek Ascology	
5821	410 Mod	
5824	17-7 PH	
5825	17-4 PH	
5828	Waspaloy	
5829	Nimonic 90	
5832	Inconel 718	
5837	Inconel 625	
5840	PH13-8 MO	
6458	17-22S(S)	