

**Stainless Steel Specifications**

ALLOY/TEMPER	SHAPE	SPECIFICATIONS
301 ANN	Sheet & Plate	AMS-5515
301 1/4 HARD	Sheet & Plate	AMS-5517
301 1/2 HARD	Sheet & Plate	AMS-5518
301 FULL HARD	Sheet & Plate	AMS-5519
302 ANN	Sheet & Plate	AMS-5516
304 ANN	Sheet & Plate	AMS-5513
304L ANN	Sheet & Plate	AMS-5513
316 ANN	Sheet & Plate	AMS-5524
321 ANN	Sheet & Plate	AMS-5510
347 ANN	Sheet & Plate	AMS-5512
410 ANN	Sheet & Plate	AMS-5504
17-4 PH	Sheet & Plate	AMS-5604
17-4 PH	Sheet & Plate	AMS-5604, MIL-S-81501
17-7 PH	Sheet & Plate	AMS-5528, AMS-5529 MIL-S-25043
17-7 PH	Sheet & Plate	AMS-5528, AMS-5529, MIL-S-25043
19-9 DL	Sheet & Plate	AMS-5526
304	tube	AMS 5560, 5565, 5566, 5567, AMS 5639, 5695, ASTM A249, A269, MIL-T-6845, 8504, 8506
321	tube	AMS 5557, 5570, 5576, 5645, MIL-T-8606, 8808, 8973
347	tube	AMS 5556, 5571, 5574, 5616, MIL-T-8606, 8808
316	tube	AMS 5573
410	tube	AMS 5591, 5613
21-6-9	tube	AMS 5561, 5562

ALLOY/TEMPER	SHAPE	SPECIFICATIONS
600	sheet	AMS 5540
625	sheet/coil	AMS 5599
718	sheet	AMS 5596
Alloy X	sheet	AMS 5536
Waspaloy	sheet & coil	AMS 5544
188	sheet	AMS 5608
A-286	sheet/plate	AMS-5525
AM-355	sheet/plate	AMS-5547, AMS 5549
AM-350	Sheet/Plate	AMS-5546, AMS-5548
Hastelloy C	sheet/plate	AMS-5530
Hastelloy X	sheet/plate	AMS-5536, B50TF24, B50TF25, PWA-1038
Haynes 188	sheet/plate	AMS-5608, PWA-1042, B50TF74
Inconel 600	sheet/plate	AMS-5540
Inconel 617	sheet/plate	AMS-5888, AMS-5889, PWA-1165, B50TF181
Inconel 625	sheet/plate	AMS-5599
Inconel 718	sheet/plate	AMS-5596, AMS-5597, B50TF14
Inconel X-750	sheet/plate	AMS-5542, AMS-5598
L-605	sheet/plate	AMS-5537
n-155	sheet/plate	AMS-5532
Rene 41	sheet/plate	AMS-5545, B50TF76, B50TF109
Waspaloy	sheet/plate	AMS-5544
200	Tube	ASTM B163
600	Tube	AMS 5580, PWA 1062
625	Tube	AMS 5581, 5666, GE B50TF133, BMS 7-188
718	Tube	AMS 5589, 5590, 5662, PWA 1065
X-750	Tube	AMS 5582, 5667
HX	Tube	AMS 5536, 5587, 5588
188	Tube	PWA 1042, 1088
L-605	Tube	AMS 5759, GE B50T26
A286	Tube	AMS 5731, 5732
AM 350	Tube	LAC-08-538
17-7PH	Tube	AMS 5568
WASPALLOY	Tube	AMS 5586

## COMMON METAL SPECIFICATIONS

### Aircraft Aluminum Sheet and Plate Specifications

SPECIFICATIONS	MATERIAL
AMS-4021	Alclad 6061-0 sheet & plate
AMS-4022	Alclad 6061-T4 sheet & plate
AMS-4023	Alclad 6061-T6 sheet & plate
AMS-4025	6061-0 sheet & plate
AMS-4026	6061-T4 sheet & plate
AMS-4027	6061-T6 sheet & plate
AMS-4033	2024-T351 plate
AMS-4034	Alclad 2024-T351 plate
AMS-4035	2024-0 sheet & plate
AMS-4036	Alclad one side 2024-T3 sheet & T351 plate
AMS-4037	2024-T3 sheet & T351 plate
AMS-4038	7075-T651 plate
AMS-4039	Alclad 7075-T651 plate
AMS-4040	Alclad 2024-0 sheet & plate
AMS-4041	Alclad 2024-T3 sheet & plate
AMS-4045	7075-T6 sheet & T651 plate

### AMS (former Federal) Specifications

SPECIFICATIONS	MATERIAL
AMS-QQ-A-200	general specification for extruded rod, bar, shapes, tube & wire
AMS-QQ-A-200/3	2024 extruded rod, bar, shapes, tube & wire
AMS-QQ-A-200/8	6061 extruded rod, bar, shapes, tube & wire
AMS-QQ-A-200/9	6063 extruded rod, bar, shapes, tube & wire
AMS-QQ-A-200/11	7075 extruded rod, bar, shapes, tube & wire
AMS-QQ-A-200/15	7075-T76, T76510, T76511, extruded rod, bar & shapes
AMS-QQ-A-200/16	6061-T6 extruded structural shapes
AMS-QQ-A-225	general spec for drawn, rolled, or cold finished wire, rod, bar & special shapes
AMS-QQ-A-225/1	1100 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/2	3003 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/3	2011 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/4	2014 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/5	2017 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/6	2024 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/7	5052 drawn, rolled or cold finished rod, bar & wire
AMS-QQ-A-225/8	6061 drawn, rolled or cold finished rod, bar, wire and special shapes
AMS-QQ-A-250/9	5456 sheet and plate
AMS-QQ-A-250/10	5454 sheet and plate
AMS-QQ-A-250/11	6061 sheet and plate
AMS-QQ-A-250/12	7075 sheet and plate
AMS-QQ-A-250/13	Alclad 7075 sheet and plate
AMS-QQ-A-250/24	7075-T76 & T7651 sheet and plate
WW-T-700	general specifications for seamless drawn tube
WW-T-700/1	1100 seamless drawn tube
WW-T-700/2	3003 seamless drawn tube
WW-T-700/3	2024 seamless drawn tube
WW-T-700/4	5052 seamless drawn tube
WW-T-700/5	5086 seamless drawn tube
WW-T-700/6	6061 seamless drawn tube
WW-T-700/7	7075 seamless drawn tube

### ASTM Titanium Specifications

SPECIFICATIONS	MATERIAL
ASTM-F136-98e1	Wrought Titanium-6 Aluminum-4 Vanadium ELI (Extra Low Interstitial) Alloy (UNSR56401) for Surgical Implant
ASTM-F67-00	Unalloyed Titanium for Surgical Implant Applications (UNS R50250, UNS R50400, UNS R50550, UNS R50700)
ASTM-F1108-97a	Ti6AL4V Alloy Castings for Surgical Implants (UNS R56406)
ASTM-F-620-00	Alpha Plus Beta Titanium Alloy Forgings for Surgical Implants
ASTM-F1472-99	Wrought Titanium-6 Aluminum-4 Alloy for Surgical Implant Applications (UNS R56400)
ASTM-F1341-99	Unalloyed Titanium Wire UNS R50250, UNS R50400, UNS R50550, UNS R50700, for Surgical Implant Applications
ASTM-F1295-97a	Wrought Titanium-6 Aluminum-7 Niobium Alloy for Surgical Implant Applications (UNS R56700)
ASTM B265-99	Titanium and Titanium Alloy Strip, Sheet, and Plate
ASTM-B299-99	Titanium Sponge
ASTM-B338-99	Seamless and Welded Titanium and Titanium Alloy Tubes for Condensers and Heat Exchangers
ASTM-B348-00	Titanium and Titanium Alloy Bars and Billets
ASTM-B363-00	Seamless and Welded Unalloyed Titanium and Titanium Alloy Welding Fittings
ASTM-B367-93 (1998)	Titanium and Titanium Alloy Castings
ASTM-B381-00	Titanium and Titanium Alloy Forgings
ASTM-B600-91 (1997)e1	Standard Guide for Descaling and Cleaning Titanium and Titanium Alloy Surfaces
ASTM-B861-00	Titanium and Titanium Alloy Seamless Pipe
ASTM-B862-99	Titanium and Titanium Alloy Welded Pipe
ASTM-B863-99a	Titanium and Titanium Alloy Wire

### Nickel and High-temp Alloy Specifications

#### Aerospace Materials Specifications for Titanium & Titanium Alloys

AMS	PROPERTIES
4900L	Sheet, Strip and Plate, C.P., Annealed, 55.0 ksi (379 MPa) Yield Strength
4901M	Sheet, Strip, and Plate, C.P. Annealed, 70.0 ksi (485MPa)
4902G	Sheet, Strip, and Plate, C.P. Annealed, 40.0 ksi (276 MPa) Yield Strength
4905B	Damage-Tolerant Grade Plate 6AL – 4V, Beta, Annealed
4907F	Sheet, Strip, and Plate 6AL-4V, Extra Low Interstitial Annealed
4908F	Sheet and Strip, 8Mn, Annealed, 110,000 psi (760 MPa) Yield Strength
4909F	Sheet, Strip, and Plate 5AL -2.5Sn, Extra Low Interstitial, Annealed
4910K	Sheet, Strip and Plate 5AL – 2.5Sn Annealed
4911H	Sheet, Strip, and Plate, 6AL – 4V, Annealed
4914A	Cold Rolled Sheet and Strip, 15V - 3AL – 3Cr – 3Sn Solution Heat Treated
4915G	Sheet, Strip, and Plate, 8AL – 1V – 1Mo, Single Annealed
4916F	Sheet, Strip, and Plate, 8AL – 1Mo – 1V, Duplex Annealed
4917E	Sheet, Strip, and Plate, 13.5V – 11Cr – 3.0AL, Solution Heat Treated
4918H	Sheet, Strip, and Plate, 6AL – 6V- 2Sn Annealed
4919C	Sheet, Strip, and Plate, 6AL– 2Sn – 4Zr – 2Mo – 0.08Si, Duplex Annealed
4920B	Forgings, 6AL – 4V, Alpha-Beta or Beta Processed, Annealed
4921G	Wire, Forgings, and Rings C.P. 70.0 ksi (438 MPa) Yield Strength
4924D	Bars, Forgings, and Rings 5AL – 2.5Sn, Extra Low Interstitial, Annealed
4926J	Bars, Wire, and Rings, 5AL – 2.5Sn Annealed, 110 ksi (758 MPa) Yield Strength