

# SPACE

**NICKEL ALLOYS, TITANIUM,  
STAINLESS STEEL, COBALT ALLOYS**



## **QUALITY APPROVALS**

- AS9100D with ISO 9001: 2015
- AS13100
- NADCAP AC7116
- GE Aircraft Engine (GT193)
- GE S422



## **INDUSTRY APPROVALS**

Blue Origin, Boeing, GE Aircraft Engine (GT193), Lockheed Martin, Northrop Grumman, Pratt & Whitney LCS, SpaceX



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# SPACE GRADE MATERIALS

NICKEL	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
Alloy X	UNS N06002, AMS 5536/5754, ASTM B 435/B 572, ASME SB 435, EN 2.4665, PWA, GE, RR, B50A249C, B50A463	•	•	•
Alloy 6230	UNS 6230, AMS 5878, ASTM B 435, ASME SB 435	•		
A286	UNS S66286, AMS 5525/5858/5731/5732/5737, ASTM A 453/A 638, ASME SA 453/SA 638, EN 1.4980, DIN EN 10204 3.1, PWA, GE, RR	•	•	
A286CR	AMS 5853, 15%–17% COLD REDUCED, PWA, GE, RR	•	•	
A286CR	AMS 5726, 40%–60% COLD REDUCED, PWA, GE, RR		•	
Waspaloy CR®	UNS N07002, AMS 5708, PWA, GE, RR		•	
Waspaloy 5706	UNS N07001, AMS 5706, PWA, GE, RR		•	
Waspaloy 5708	UNS N07002, AMS 5708, PWA, GE, RR		•	
X750	UNS N07750, AMS 5598/5542, ASTM B 637, ASME SB 637, W.Nr. 2.4669, PWA, GE, RR	•		
600	UNS N06600, AMS 5540, ASTM B 168, ASME SB 168, EN 2.4816, 10204, PWA, GE	•		
625	UNS N06625, AMS 5599/5666, ASTM B 443 Gr 1/B 446, ASME SB 443 Gr 1, EN 2.4856, EN 10204, PWA, GE, RR, EMS95377	•	•	•
718	UNS N07718, AMS 5596/5662, ASTM B 670/B 637, ASME SB 670, EN 2.4668, EN 10204, PWA, GE, RR, B50TF14, B50TF15	•	•	•
718 CR	UNS N07718, AMS 5962, PWA, GE, RR		•	

TITANIUM	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
CP Grade 2	UNS R50400, AMS 4902, ASTM F 67/B 265/B 348, MIL-T-9046/9047 CP-3	•	•	•
CP Grade 3	UNS R50550, AMS 4900, ASTM F 67/B 265, MIL-T-9046 CP-2	•		
CP Grade 4	UNS R50700, AMS 4901/4921, ASTM F 67/B 265/B 348, ASM/MIL-81200, MIL-T-9046/9047 CP-1	•		•
Ti-6AL-4V	UNS R56400, AMS 4911/4928/4967/6931, AMS-T-9046 A ASTM F 1472/B 265/B 348 GR 5, MIL-T-9046/9047 AB-1, PWA, GE, RR	•	•	•
Ti-6AL-4V ELI	UNS R56401, AMS 4930/6932, ASTM F 136/B 265 GR 23/B 348 GR 23, ASM/MIL-81200, MIL-T-9046/9047		•	•

STAINLESS	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
Greek Ascoloy	UNS S41800, AMS 5616, PWA, GE, RR		•	
15-5 PH	UNS S15500, AMS 5862, ASTM A 693		•	
17-4 PH	UNS S17400, AMS 5604, ASTM A 693, ASME SA 693, W.NR 1.4542, PWA, GE, RR	•	•	•
17-4 PH Heat Treated	UNS S17400, AMS 5643, ASTM A564		•	
17-4 PH Precision Ground	UNS S17400, AMS 5643, ASTM A564		•	
17-7 PH	UNS S17700, AMS 5528, ASTM A 693, ASME SA 693, W.NR 1.4541, PWA, GE, RR	•		•
301	UNS S30100, AMS 5901, ASTM A 240/A 666, ASME SA 240/SA 666, EN 1.4310, PWA, GE, RR	•		
301-1/4	UNS S30100, AMS 5517, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
301-1/2	UNS S30100, AMS 5518, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
301 FH	UNS S31000, AMS 5519, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
304/304L	UNS S30400, UNS S30403, AMS 5511/5513, ASTM A 240, ASTM A 276, ASTM A 479, ASTM A 484, ASTM A 666, ASME SA 240, W.NR 1.4307, PWA, GE, RR	•		•
316/316L	UNS S31600/S31603, AMS 5524/5507, ASTM A 167/A 240/F 138/F 899, ASME SA 167/SA 240, W.NR/EN 1.4404, W.NR/EN 1.4401, PWA, GE, RR	•	•	
321	UNS S32100/S32109, AMS 5510/5645, ASTM A 167/A 240/A 276/A 479, ASME SA 167/SA 240, EN 1.4541, PWA, GE, RR	•	•	•
347	UNS S34700, AMS 5512/5646, ASTM A 269/A 276/A 193, ASME SA 269/SA 276, EN 1.4550, PWA, GE, RR	•	•	
410	UNS S41000, AMS 5504/5613 (Chem Only), ASTM A 240/A 276/A 493/F 899 ASME SA 240, EN 1.4006, B50991B, PWA, GE, RR	•	•	•
440C	ASTM A 276, ASTM A 480, ASTM F 899, AMS 5630 (Chem Only), AISI (440C)			•

COBALT	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
Alloy 159®	AMS 5842, PWA, GE, RR		•	
L605	UNS R30605, AMS 5537/5759, B50TF26, PWA, GE, RR	•	•	
MP35N®	AMS 8544, SPS-M-663, PWA, GE, RR		•	
188	UNS R30188, AMS 5608/5772, B50TF74, PWA, GE, RR	•	•	

\*Please contact us for additional grades and sizes at [sales@upmet.com](mailto:sales@upmet.com).