



# SPACE

## NICKEL ALLOYS, TITANIUM, STAINLESS STEEL, COBALT ALLOYS



### QUALITY APPROVALS

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



### INDUSTRY APPROVALS

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
<b>Alloy X</b>	UNS N06002, AMS 5536/5754, ASTM B 435/B 572, ASME SB 435, EN 2.4665, PWA, GE, RR, B50A249C, B50A463	•	•	•
<b>Alloy 6230</b>	UNS 6230, AMS 5878, ASTM B 435, ASME SB 435	•		
<b>A286</b>	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	•	•	
<b>A286CR</b>	AMS 5853, 15%–17% COLD REDUCED, PWA, GE, RR	•	•	
<b>A286CR</b>	AMS 5726, 40%–60% COLD REDUCED, PWA, GE, RR		•	
<b>Waspaloy CR®</b>	UNS N07002, AMS 5708, PWA, GE, RR		•	
<b>Waspaloy® 5706</b>	UNS N07001, AMS 5706, PWA, GE, RR		•	
<b>Waspaloy® 5708</b>	UNS N07002, AMS 5708, PWA, GE, RR		•	
<b>X750</b>	UNS N07750, AMS 5598/5542, ASTM B 637, ASME SB 637, W.Nr. 2.4669, PWA, GE, RR	•		
<b>600</b>	UNS N06600, AMS 5540, ASTM B 168, ASME SB 168, EN 2.4816, 10204, PWA, GE	•		
<b>625</b>	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	•	•	•
<b>718</b>	UNS N07718, AMS 5596/5662, ASTM B 670/B 637, ASME SB 670, EN 2.4668, EN 10204, PWA, GE, RR, B50TF14, B50TF15	•	•	•
<b>718 CR</b>	UNS N07718, AMS 5962, PWA, GE, RR		•	
TITANIUM	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
<b>CP Grade 2</b>	UNS R50400, AMS 4902, ASTM F 67/B 265/B 348, MIL-T-9046/9047 CP-3	•	•	•
<b>CP Grade 3</b>	UNS R50550, AMS 4900, ASTM F 67/B 265, MIL-T-9046 CP-2	•		
<b>CP Grade 4</b>	UNS R50700, AMS 4901/4921, ASTM F 67/B 265/B 348, ASM/MIL-81200, MIL-T-9046/9047 CP-1	•		•
<b>Ti-6AL-4V</b>	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	•	•	•
<b>Ti-6AL-4V ELI</b>	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
<b>Greek Ascology</b>	UNS S41800, AMS 5616, PWA, GE, RR		•	
<b>15-5 PH</b>	UNS S15500, AMS 5862, ASTM A 693		•	
<b>17-4 PH</b>	UNS S17400, AMS 5604, ASTM A 693, ASME SA 693, W.NR 1.4542, PWA, GE, RR	•	•	•
<b>17-7 PH</b>	UNS S17700, AMS 5528, ASTM A 693, ASME SA 693, W.NR 1.4541, PWA, GE, RR	•		•
<b>301</b>	UNS S30100, AMS 5901, ASTM A 240/A 666, ASME SA 240/SA 666, EN 1.4310, PWA, GE, RR	•		
<b>301-1/4</b>	UNS S30100, AMS 5517, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
<b>301-1/2</b>	UNS S30100, AMS 5518, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
<b>301 FH</b>	UNS S31000, AMS 5519, ASTM A 666, ASME SA 666, EN 1.4310, PWA, GE, RR	•		
<b>304/304L</b>	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	•		•
<b>316/316L</b>	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	•	•	
<b>321</b>	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	•	•	•
<b>347</b>	UNS S34700, AMS 5512/5646, ASTM A 269/A 276/A 193, ASME SA 269/SA 276, EN 1.4550, PWA, GE, RR	•	•	
<b>410</b>	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		•	•
<b>440C</b>	ASTM A 276, ASTM A 480, ASTM F 899, AMS 5630 (Chem Only), AISI (440C)			•
COBALT	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
<b>Alloy 159®</b>	AMS 5842, PWA, GE, RR		•	
<b>L605</b>	UNS R30605, AMS 5537/5759, B50TF26, PWA, GE, RR	•	•	
<b>MP35N®</b>	AMS 8544, SPS-M-663, PWA, GE, RR		•	
<b>188</b>	UNS R30188, AMS 5608/5772, B50TF74, PWA, GE, RR	•	•	

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