

HYDROGEN

NICKEL ALLOYS, TITANIUM STAINLESS STEEL



QUALITY APPROVALS

- AS9100D with ISO9001:2015
- NADCAP AC7116
- GE Approved and many more



HYDROGEN APPLICATIONS

Bi-Polar Plates, Porous Metal Substrates/Flow Fields, End Plates, PEM Fuel Cell Components, Solid Oxide Fuel Cell Components, Alkaline Fuel Cell Components, Heat Exchangers



FIRSTCUT+[®] PROCESSING

Cut-to-Length, Leveling, Slitting, Edging, Precision Rerolling, Shearing, Laser Cutting, Water Jet Cutting, Sawing, Precision Cold Saw Cutting, Near Net Shapes & Much More!

HYDROGEN SOLUTIONS

- Materials that can withstand the unique challenges of production, storage, and transport.
- Designed to handle and prevent hydrogen embrittlement and material susceptibility.
- UPM offers a comprehensive range of high-performance materials engineered to meet the demands of hydrogen generation across various types.



AN ONI COMPANY

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HYDROGEN GRADE MATERIALS

NICKEL	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
200	UNS N02200, ASTM B 162, AMS 5553	*		
600	UNS N06600, AMS 5540, ASTM B 168, ASME SB 168, EN 2.4816, 10204, PWA, GE	•		
601	UNS N06601, AMS 5870, ASTM B 168	*		
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	•	•	•
800	UNS N08800, AMS 5871, ASTM B 409	*		
825	UNS N08825, AMS 5871, ASTM B 424	*		
C276	UNS N10276, AMS 5750, ASTM B 575	*		
Monel 400	UNS N04400, AMS 4544, ASTM B 127	*		
X750	UNS N07750, AMS 5598/5542, W.Nr. 2.4669, PWA, GE, RR	•		

TITANIUM	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
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	•	•	•
CP Grade 1	UNS R50250, AMS 4900, ASTM B 265	*		
CP Grade 2	UNS R30188, AMS 5608/5772, B50TF74, PWA, GE, RR	•	•	•

STAINLESS	SPECIFICATIONS	SHEET/COIL	BAR	PLATE
304	UNS S30400, AMS 5511, AMS 5513, ASTM A 666, ASME SA 240, W.NR 1.4307, PWA, GE, RR	•		•
304L	UNS S30403, AMS 5511/5513, ASTM A 240, ASTM A 276, ASTM A 479, ASTM A 484, 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	•	•	
15-5 PH	UNS S15500, AMS 5862, ASTM A 693		•	
17-4 PH	UNS S17400, AMS 5604, ASTM A 693 /A 564/F 899 (medical only), ASME SA 693, W.NR 1.4542, PWA, GE, RR	•	•	•
410	UNS S41000, AMS 5504/5613 (Chemistry 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)			•
446	UNS S44600, ASTM A 240	*		

**Please contact us for additional grades and sizes at sales@upmet.com.*

QUALITY SOLUTIONS. TRUSTED PARTNERS.