



Alloys International, Inc.

The name you can trust for specialty metals & forgings

Product Catalog



www.alloysintl.com

Our Expertise

For nearly three decades, Alloys International Inc. has been a proud worldwide supplier of all forms of metals and alloys including aluminum, stainless steel, alloy steel, titanium, magnesium, nickel, cobalt, and exotic alloys. Most importantly, we do it on-time and within budget. We have the resources and engineering expertise to source or custom produce whatever the job calls for.

Often mill minimums are too large or lead times too long. With Alloy's International's large billet inventory, we can custom convert smaller quantities with substantially reduced deliveries. Through extensive research, Alloys International has also developed a sophisticated, comprehensive database of global mills with substantial capabilities. We have selected those that meet or exceed the high standards required by American regulations and specifications. We cross-reference your company's requirements to properly match them with mills and suppliers located throughout the world.

Together we circumnavigate the globe to service consumers within the Aerospace, Defense, Petrochemical, Nuclear, Power Generation, and Medical industries. This has positioned Alloys International, Inc. as a key provider to both large manufacturers and small machine shops globally.

We provide all tempers, and grades of alloys...

- Aluminum
- Inert Surgical Steels
- Stainless/Duplex
- Hard Facing Alloys
- Alloy/Tool Steels
- Hafnium
- Titanium
- Tantalum
- Nickel/Cobalt
- Niobium
- Inconel®*/Incoloy
- Zirconium
- Hastelloy®* Alloys
- Shape Memory Alloys
- Magnesium
- Molybdenum
- Magnetic Alloys
- Tungsten

...and in all forms

- Rod/Bar
- Tubing/Pipe
- Shapes/Angles
- Wire
- Forgings/Castings
- Sheet
- Parts/Spares
- Strip/Coil
- Plate

*Inconel/Incoloy™ INCO ALLOYS INTERNATIONAL, INC.
*Hastelloy™ HAYNES INTERNATIONAL, INC.



Quality Under Control...

Quality control procedures conform to all FAA standards. Quality management system certified to AS9100D and ISO 9001:2015.



Non-Destructive

Alloys International provides complete non-destructive testing services – including surface inspection by visual and fluorescent penetrant dye testing. For magnetic material, magnetic particle inspection is used. Examination and inspection for internal defects by ultrasonic testing completes the range of techniques offered.

Traceability

Quality assurance means traceability. At Alloys International, incoming material is documented at every possible step through to final inspection and shipment. All documents are maintained for 50 years to facilitate immediate recall.



Alloys International, Inc. is a Proud Aerospace Approved Provider:



Product Line

Stainless Steel	Specification
301A	AMS 5515, MIL-S-5059
301 1/4H	AMS 5517, MIL-S-5059
301 1/2H	AMS 5518, MIL-S-5059
301 F.H.	AMS 5519, MIL-S-5059
302, 302"B"	AMS 5516, 5688, QQA-763, MIL-S-7720
303, 303"B"	AMS 5640, QQS-764
304, 304"B"	AMS 5513, 5560, 5563, 5564, 5565, 5566, 5567, 5639, 5697, QQA-763, 766
304L	AMS 5551, 5647, QQS-763, AMS 5566, 5572, 5651, 5694, QQA-763
316, 316"B"	AMS 5524, 5573, 5648, 5690, 5692, QQS-763, AMS 5776, QQS-763
316L	AMS 5507, 5653, QQS-763
317, 317L	ASTM-A-240, 580, QQS-763
321	AMS 5510, 5645, 5570, 5576 5689
330	AMS 5592, 5716
347	AMS 5512, 5646, 5570, 5571, 5674
409	ASTM-A-240, 580
410	AMS 5504, 5613, 5591, 5591, 5612, 5613, AMS 5776, QQS-763
416, 416 H.T.	AMS 5610, ASTM-A-581, 581 COND-T
418 (Greek Ascology)	AMS 5508, 5616, 5817
420	AMS 5621, QQS-763
430, 430-F	AMS 5503, 5627, QQS-763
440-A, 440-C	AMS 5631, 5618, 5630, 5880, ASTM-A-580
440-F	AMS 5632
446	ASTM-A-580, QQS-763
Alloy 20	ASTM-B-463, ASTM-B-473
Nitronic 40, 50, 60	AMS 5656, 5764, ASTM-A-276, A-479
PH 1 3-8M0	AMS 5629, 5864
15-5PH	AMS 5862, 5869
15-7PH	ASTM-A-564
15-7MO	AMS 5520
17-4PH	AMS 5604, 5643, 5826
17-7PH	AMS 5528, 5529, 5568, 5644, 5678, MIL-S25043
19-9DL	AMS 5526, 5527
AM350	AMS 5546, 5548, 5554, 5745, 5775
AM355	AMS 5547, 5549, 5743, 5780
Custom 450	AMS 5773, 5763
Custom 455	AMS 5617

Refractory Metals	Specification
Molybdenum	AMS 7817, 7819
Tantalum	AMS 7846, 7847, 7848, 7849, ASTM-B-708
Niobium	AMS 7850, 7851,7852, 7855, 7857
Tungsten	AMS 7878, 7879, 7880, 7897, 7898
Beryllium	AMS 7904, 7905, 7906, 7907, 7908, 7910
Zirconium	ASTM-B 551, 550, 493,523, 658

Aircraft Alloys	Specification
4130	AMS 6348, 6350, 6351, 6360, 631, 6373
4140	AMS 6349, 6379, 6381, 6382, 6395, 6452
4142 H MOD	AMS 6378
4330 MOD	AMS 6411, 6427
4340	AMS 6359, 6409, 6414,6415, 6454
4620	AMS 6294
4640	AMS 6312, 6317
6150	AMS 6448, 6450,6455
8620	AMS 6274, 6276, 6277
8740	AMS 6322, 6323,6324, 6325, 6327, 6358
9310	AMS 6265, 6260, 6267
CBS 600	AMS 6255
17-22	AMS 6302, 6303, 6304, 6305
300M	AMS 6417, 6419
HY-TUF	AMS 6418
D6AC	AMS 6341
50100	AMS 6442
51100	AMS 6443, 6445, 6446, 6449
52100	AMS 6440, 6444, 6447
135 MOD	AMS 6470, 6471, 6472
H-11	AMS 6437, 6485, 6487,6488
M-50	AMS 6490, 6491
Maraging 250	AMS 6512
Maraging 300	AMS 6414
D6AC	AMS 6438, 6439
HP 9-4-20/25	AMS 6523, 6524, 6525, 6526, 6546

Aluminum	Specification
1100-0, H14	AMS 4001, 4003, QQA-250/1
2011-T3	QQA-225/3
2014-0, T3, T6	AMS 4028, 4029, 4121, QQA-250/3 QQA-225/4, QQA-200/4, ASTM-B-209
2024-0, T3, T351, T81	AMS 4035, 4036, 4037, 4041, 4194, 4195 4119, 4120, 4112, QQA-250/3, 250/4 250/5, 225/6, QQA-200/3
2219-0, T31, 7351, T81	AMS 4031, 4094, 4095, 4096, QQA-250/30, QQA-367
5052-0, H32, H34	AMS 4015, 4016, 4017, QQA-250/8
5083-0, H32	AMS 4056, QQA-250/6, 200/4, MIL-A-46027 (Armor Plate)
5086	QQA-250/7, QQA-200/5
6061-0,T4,T451,T6,T651	AMS 4021, 4022, 4023, 4026, 4027, 4115
6061-T6511	AMS 4116, 4117, 4218, QQA-250/1, QQA-225/8, QQA-200/8
6063	QQA-200/9
7049-T7351	AMS 4200A
7050-T7451, T7651	AMS 4050, 4201
7075-0, T6, T651, T7351	AMS 4044, 4045, 4046, 4048, QQA-250/12, 250/13, 225/9, 200/11
7178-0, T6, T6511	QQA-250/14, 250/15, 200/13
7475-T761, T7351	AMS 4100, 4202, QQA-200/1

Special Property	Specification
Hy Mu 80	AMS 7701, MIL-N-14411
Mu Metal-Ann.	AMS 7701
Mu Metal - 1/2 Hard	AMS 7702
Mu Metal - Bar	AMS 7705
R30100	AMS7724
Invar 36	MIL-S-16598A
Super Invar	Applicable Company Specs.
Kovar	AMS 7726, 7727, 7728, MIL-I-23011,C1-1
Dumet	AMS 7734, MIL-STD-1276, Type D
Nitinol Wire & Tubing	Applicable Company Specs.
Depleted Uranium 99U	AMS 7730
M-36	AMS 7711
M-27	AMS 7712
M-4, M-5, M-6	AMS 7716
Magnets	AMS 7510A, 7510/1A, 7510/2

Titanium	Specification
Comm. Pure 55 KSI	AMS 4900, MIL-T-9046, Type I, C
Comm. Pure 70 KSI	AMS 4901, 4921, 4951, MIL-T-9046, Type I, B
Comm. Pure 40 KSI	AMS 4902, MIL-T-9046, TYPE 1,A
6Al-4V Ann & *H.T.	AMS 4911, 4928, 4934, 4935, 4954, 4965 MIL-T-9047, TYPE III, C
6Al-4V ELI	AMS 4907, MIL-T-9046, Type III, D, AMS 4930, 4956, MIL-T-9047, ELI
6Al-4V ELI Duplex Ann.	AMS 4931, MIL-T-9047
8Al-1V-1	AMS 4972, 4973, 4955, MIL-T-9047
8-1-1 Single Ann.	AMS 4915, MIL-T-9046, Type II-F
8-1-1 Duplex Ann.	AMS 4916, MIL-T-9046, Type II-F
6Al-6V-2SN	AMS 4918, 4936, 4937, MIL-T-9046, 4978, 4979, MIL-T-9047
6Al-2Sn-4Zr-2Mo	AMS 4919, 4975, 4976 MIL-T-9046, TYPE III, G MIL-T-9047
6Al-2Sn-4Zr-6Mo	AMS 4981, MIL-T-9047
5Al-2.5 SN Ann.	AMS 4910, 4926, 4966, MIL-T-9046, MIL-T-9047, Comp. 2, MIL-F-83142, TYPE II, Comp. 2
5Al-2.5 SN ELI	AMS 4909, 4924, MIL-T-9046, Type II, Comp. D, MIL-T-9047, Comp. 3
3Al-2.5V	AMS 4943, 4944
15V-4Al-3Cr-3SN	AMS 4914
11sn 5.0zr 2.3al 1.0mo	AMS 4974
10V-2Fe-3Al	AMS 4983, 4984, 4986, 4987
8MN	AMS 4908

High Temp Alloys	Specification
A286	AMS 5525, 5735, 5731, 5732, 5137, AMS 5726, B50T1181, B50T12A, C
L-605	AMS 5537, 5759, 5796
N155	AMS 5532, 5585, 5769, 5794
Haynes® 188	AMS 5608, 5772, 5807
Inconel® 600	AMS 5540, 5580, 5665, 5687
Inconel® 601	AMS 5870, 5715
Inconel® 617	AMS 5887, 5888, 5889
Inconel® 625	AMS 5599, 5666, 5581, PWA 1066, 1072
Inconel® 706	AMS 5701, 5702, 5703
Inconel® 718	AMS 5589, 5590, 5596, 5662, PWA 1065, 5663, 5664, 5832, B50TF14, 15A
Inconel® 722	AMS 5684
Inconel® X-750	AMS 5542, 5598, 5582, 5583, MIL-N-7786, 5667, 5668, 5671, 5698, 5699
Incoloy® 800	AMS 5871
Incoloy® 901	AMS 5660, 5661, 5830
Incoloy® 909	AMS 5884, 5892, 5893
Hastelloy® X-750	AMS 5536, 5587, 5588, 5754, 5798, PWA 1038, B50TF24, 25
Hastelloy® C,C276	AMS 5530, 5750
Hastelloy® W,S,N	AMS 5755, 5711, 5607
Nickel 200	ASTM-B-160
Nickel 400 (Monel)	AMS 4574, 4544, 4675, 4730, QQN-281,A
Nickel 405 (Monel)	AMS 4674, QQ-N-281,B
Nickel K500 (Monel)	AMS 4676, QQ-N-286,A
Rene 41	AMS 5545, 5712, 5713, 5800, B50T59, N60T69, B50TF67
Waspaloy	AMS 5544, 5706-07-08-09, 5828
Jethete M-152	AMS 5718, 5719
Nimonic 263	AMS 5872, 5886
Stellite 6B	AMS 5788, 5894
MP35N	AMS 5758, 5844, 5845, SPS M-646

Magnesium	Specification
AZ61A-F	AMS 4350, QQ-M-31
AZ80A-T5	AMS 4360
AZ60A-T5	AMS 4362, QQ-M-40
AZ31B-0	AMS 4375, 4382, QQ-M-44
AZ31, B-26, H24	AMS 4376, 4377, QQ-M-44
ZK21A-F	AMS 4387, MIL-M-46039
HM21A-T81	AMS 4383, MIL-M-8917
HM21A-T8	AMS 4390, MIL-M-8917
HM31A-F	AMS 4388, MIL-M-8916
HM31A-T5	AMS 4389, MIL-M-8916, Temper T5
HK31A-0	AMS 4384, MIL-M-26075
HK31A-H24	AMS 4385, MIL-M-26075



ALLOYS INTERNATIONAL, INC.

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The Industries We Serve...



AEROSPACE, TRANSPORTATION, & DEFENSE



NUCLEAR, ELECTRICAL & PETROCHEMICAL



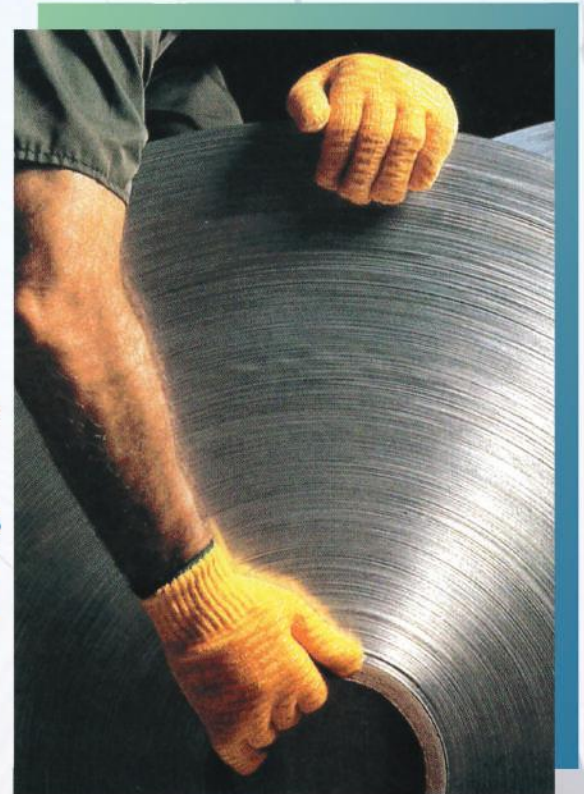
MEDICAL & SURGICAL



SPORTS & LEISURE

Each of these industries share similar requirements—utilizing metal alloys which exhibit unique characteristics such as high strength to weight ratios, heat and corrosion resistance, high purity, electrical conductivity, radiation shielding and more.

Alloys International Inc. specialty alloys are fully certified to meet the most demanding of standards, and they are fully traceable to the original melt source.



Through extensive research, Alloys International Inc., has developed a sophisticated, comprehensive base of global mill capabilities. We have selected those mills which meet or exceed the high standards expected by American specifications. We cross-reference your specifications & requirements with mills located throughout the world.

Export Services

Alloys International, Inc. is an industry leader when it comes to exporting to every corner of the globe. We can offer metric conversion, translation services, global mill selection, AOG quick response shipment, JIT delivery programs, documentation control and more.

We custom crate every order to ensure that no shifting of material, content damage, or water penetration occurs. We have a certified ISPM-15 KDHT wood packaging program that complies with the import requirements of every single country in the world. We can also offer waterproofing, oiling, or other methods to mitigate corrosion. Furthermore, we are expertly trained at implementing customs requirements, declaration, and documentation, as well as export licensing. Alloys International, Inc. ensures complete worry-free imports to your location, no matter where on the globe you may be!

Our Expertise

- Cross Referencing
- Metric Conversion
- Translation Services
- Global Mill Selection
- AOG Quick Response
- Documentation Control
- Protective Export Boxing



Lowering Costs

A world market at your front door results in lower raw material costs. With Aii's technical expertise in interpretation of raw material specifications such as AMS, ASM, ASTM, SAE, MIL, QQA, DIN and most in house specs, your quality is assured.

Special Services

When non-standard requirements present a problem, Alloys International draws upon its resources to locate your items or, if not available, produce to your specifications utilizing the following services:

Forging	Grinding	Heat Treating	Ultrasonic Testing
Slitting	Re-Rolling	Chemical Milling	Plasma & EDM Cutting
Masking	Sawing & Shearing	Trepanning/Gun Drilling	Laser & Water-Jet Cutting

FORGINGS

custom shapes · bars · sleeves · discs · rings · blocks

Forging is a manufacturing process where metal is pressed, pounded or squeezed under great pressure into high strength parts. The process is normally (but not always) performed hot by preheating the metal to a desired temperature before it is worked. Forged parts can vary in size, shape, and sophistication - from the hammer and wrench in your toolbox to close tolerance precision components in the Boeing 777 and NASA space program. In fact, over 18,000 forgings are contained in a 777. For small engines with a thrust of 1,000 lbs. through to large engines with a thrust of over 98,000 lbs; Alloys International, Inc. is your source for forgings used in the Aerospace industry.



Some of our largest customer markets include aerospace, national defense, automotive, construction, mining, oil tool, and general industrial equipment. We welcome your inquiry and will show you first hand how we make a difference. Whether it be near-net forgings that save you machining time or lower tooling costs to help you buy "just what you need",

Alloys International, Inc. is your partner on the ground!



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