

ELGILOY SPECIALTY METALS | STRIP

High Performance Alloys - Precision Rolling

ElgiLOY Specialty Metals processes rolled precision strip in over 75 high performance alloys for mission critical applications.

Our three facilities offer multiple precision rolling mills, furnaces, tension leveling lines, and production flexibility for better lead times. We roll highly engineered strip to exacting tolerances in nickel alloys, cobalt, titanium, and stainless steels. Capabilities vary by mill, producing strip and foil as light as 0.0008" and as wide as 40".

We operate AS9100:2016, ISO 9001:2015, and A2LA/ISO 17025 certified facilities, providing testing that is fully compliant with Nadcap standards for heat treatment and material testing, as well as various NRC certifications.

Strip Capabilities

Precision Rolling	Annealed Gauge Range: 0.0008" to 0.100" (0.02mm to 2.5mm) Tempered Gauge Range: 0.0008" to 0.062" (0.02mm to 1.57mm)
Precision Slitting	Gauge: 0.0008" to 0.100" (0.02mm to 2.5mm) Width: 0.020" to 48" (0.50mm to 1219.2mm)
Edge Finishing	1 Round, 3 Slit, 4 Round, 5 Deburred
Surface Finishes	Standard and custom finishes available
Packaging Options	Pancake coils or spools
Tension Leveling	Available at all rolling facilities
Tech Support	Metallurgical investigation & application assistance for material recommendations

Quality

Accreditations

- » AS9100:2016 & ISO 9001:2015
- » Nadcap Heat Treatment

Approvals

- » GT193-T3166-Feb 29, 2024-BG-1
- » Pratt & Whitney
- » Rolls-Royce
- » Mitsubishi
- » BAE Systems
- » BAE Systems Cert Approval
- » 10 CFR 50 Appendix B
- » 10 CFR 21

Laboratory Accreditations

- » Elgin Lab -
Nadcap Materials Testing
- » Hampshire Lab -
Nadcap Materials Testing
- » Nadcap Heat Treating
- » GT193-T3166-Jan_31_2022-BG-1



We provide highly engineered specialty metals to thousands of mission critical applications in:



Aerospace



Chemical
Processing



Defense



Medical



Oil & Gas



Power Generation
including nuclear



ELGILOY
SPECIALTY METALS

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Alloys		Nominal Composition															
Cobalt Based Alloys		Co	Cr	Ni	Mo	W	Fe	Mn	Si	C	P	S	B	Ti	Be	La	Other
Elgiloy® ¹	Co-Cr-Ni-Mo	40	20	15	7	-	16	2	1.2	0.15	0.015	0.015	-	-	0.1	-	-
Haynes® 25 (L605) ²	Co-Cr-W-Ni	52	20	10	-	15	3	1.5	0.4	0.1	0.04	0.03	-	-	-	-	-
Haynes® 188® ²	Co-Cr-Ni-W	40	22	22	-	14	3	1.25	0.35	0.1	0.02	0.015	0.015	-	-	0.07	-
MP35N® ⁵	Co-Ni-Cr-Mo	35	20	35	10	-	1	0.15	0.15	0.025	0.015	0.01	0.015	1	-	-	-
Nickel-Copper Based Alloys		Ni	Cu	Fe	Mn	Si	C	S	Al	Co	Ti	Cr	Mo	W	P	B	Other
Monel® 400 ³	Ni-Cu	67	31	2.5	2	0.5	0.3	0.024	-	1	-	-	-	-	-	-	-
Nickel-Cobalt Based Alloys		Ni	Co	Cr	Mo	Ti	Al	Fe	Si	Mn	C	Cu	S	P	B	W	Other
Haynes® 263® ²	Ni-Co-Cr-Mo	48	20	20	5.9	2.2	0.45	0.7	0.4	0.6	0.06	0.2	0.007	0.015	0.005	-	-
Haynes® 282® ²	Ni-Cr-Co-Mo	57	10	20	8.5	2.1	1.5	1.5	0.15	0.3	0.06	0.1	0.015	0.015	0.005	0.5	Zr:0.02, Ta:0.1, Cb:0.2
RENE 41	Ni-Cr-Co-Mo	54	11	19	9.8	3.2	1.5	5	0.5	0.1	0.12	0.5	0.015	-	0.006	-	-
Waspaloy	Ni-Cr-Co-Mo	58	13.5	19.5	4.3	3	1.4	2	0.15	0.1	0.06	0.1	0.015	0.015	0.006	-	Zr:0.05
Nickel Based Alloys		Ni	Cr	Mo	Fe	Co	Si	Mn	C	Al	W	Ti	Cu	P	S	B	Other
Hastelloy® B-3® ²	Ni-Mo	65	1.5	29.5	1.5	3	0.1	3	0.01	0.5	3	0.2	0.2	0.03	0.01	-	V:0.2, Cb:0.2, Ta:0.2, Zr:0.1
Hastelloy® C-22® ²	Ni-Cr-Mo	56	21	13.5	4	2.5	0.08	0.5	0.015	0.5	3.5	-	-	0.02	0.02	-	V:0.35
Hastelloy® C-276 ²	Ni-Cr-Mo	57	15.5	16	5.5	2.5	0.08	1	0.01	1	3.75	0.01	-	0.04	0.03	-	V:0.35
Hastelloy® X ²	Ni-Cr-Fe-Mo	47	22	9	18.5	1.5	1	1	0.1	0.5	0.6	0.15	0.5	0.04	0.03	0.01	-
Haynes® 214® ²	Ni-Cr-Al-Fe	75	16	0.5	3	2	0.2	0.5	0.04	4.5	0.5	0.5	-	-	-	0.01	Cb:0.15, Zr:0.1, Y:0.01
Haynes® 224® ²	Ni-Fe-Cr-Al	47	20	0.5	28	2	0.3	0.5	0.05	3.8	0.5	0.3				0.004 max	Cb:0.15 max, Zr:0.025 max
Haynes® 230® ²	Ni-Cr-W	59	22	2	3	5	0.5	0.65	0.1	0.35	14	0.1	0.5	0.03	0.015	0.015	La:0.03
Haynes® 233™ ²	Ni-Co-Cr-Mo-Al	48	19	8	2	19	0.2	0.4	0.1	3.30	0	0.5	-			0.004	Ta:0.5, Y:0.025, Zr:0.03
Haynes® 242® ²	Ni-Mo-Cr	65	8	25	2	1	0.8	0.8	0.03	0.5	-	-	0.5	0.03	0.015	0.006	-
Inconel® 600 ³	Ni-Cr-Fe	72	15.5	-	8	1	0.5	1	0.15	0.35	-	0.5	0.5	0.04	0.015	-	Cb:1, Ta:0.05
Inconel® 601 ³	Ni-Cr-Fe	61	23	-	14	-	0.5	1	0.1	1.4	-	0.35	1	-	0.15	0.006	-
Inconel® 625 ³	Ni-Cr-Mo	62	21.5	9	5	1	0.5	0.5	0.1	0.4	-	0.4	-	0.015	0.015	-	Cb:3.7
Inconel® 625SQ (LCF) ³	Ni-Cr-Mo	62	21.5	9	5	5	0.15	0.5	0.03	0.4	-	0.4	-	0.015	0.015	-	Cb:3.7, N:0.02
Inconel® 718 ³	Ni-Cr-Fe	53	19	3	18	1	0.35	0.35	0.08	0.5	-	0.9	0.3	0.015	0.015	0.006	Cb:5.125, Ta:0.05
Inconel® 718 Nuclear Grade ³	Ni-Cr-Fe	53	19	3	18	0.04	0.35	0.35	0.06	0.5	-	0.9	0.3	0.015	0.015	0.006	Cb:5.125, Ta:0.10, N:0.02
Inconel® X-750 ³	Ni-Cr-Fe	70	15.5	-	7	1	0.35	0.35	0.08	0.7	-	2.5	0.5	0.015	0.01	-	Cb:0.95
Incoloy® 825	Ni-Fe-Cr	42	21.5	3	22	-	0.5	1	0.05	0.2	-	0.9	2.3	-	0.03	-	-
Austenitic Stainless Steels		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	Other
321	Fe-Cr-Ni	68	18	10.5	2	0.75	0.08	0.045	0.03	0.1	-	-	-	0.7	-	-	-
347	Fe-Cr-Ni	67	18	11	2	0.75	0.08	0.045	0.03	-	-	-	-	-	1	-	-
Super Austenitic and PH Stainless Steels		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	Other
904L	Fe-Ni-Cr-Mo	44	21	25.5	2	1	0.02	0.045	0.035	0.1	4.5	1.5	-	-	-	-	-
Alloy 20	Fe-Ni-Cr-Mo	35	20	35	2	1	0.07	0.045	0.035	-	2.5	3.5	-	-	1	-	-
AL6XN® ⁶	Fe-Ni-Cr-Mo	44	21	24.5	2	1	0.03	0.045	0.03	0.22	6.5	0.75	-	-		-	-
Incoloy® 800	Fe-Ni-Cr	40	21	32.5	1.5	1	0.1	0.045	0.015	-	-	0.75	0.375	0.375	-	-	-
Haynes® HR-120® ²	Fe-Ni-Cr	33	25	37	1.5	1	0.06	0.04	0.03	0.23	2.5	0.5	0.4	0.2	0.65	0.01	W:2.5, Co:3
17-7 PH® ⁴	Fe-Cr-Ni	73	17	7.1	1	1	0.09	0.04	0.03	-	-	-	1.1	-	-	-	-
A286	Fe-Ni-Cr	52	15	25.5	2	1	0.08	0.04	0.03	-	1.25	0.5	0.35	2.13	-	0.006	Co:1, V:0.3
AM-350® ⁶	Fe-Cr-Ni	75	16.5	4.5	0.9	0.5	0.09	0.04	0.03	-	2.75	-	-	-	-	-	-
Duplex Stainless Steels		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	Other
2205	Fe-Cr-Ni	66	22.5	5.5	2	1	0.03	0.03	0.02	0.17	3.25	-	-	-	-	-	-
2507	Fe-Cr-Ni	61	25	7	1.2	0.8	0.03	0.035	0.02	0.28	4	0.5	-	-	-	-	-
Commercially Pure Titanium		Ti	O	C	Fe	N	H	Al	Pd	V	Si	Mo	W	Cb	Cr	Sn	Other
Ti Grade 1 (Ti25)	99.2% Ti	99	0.18	0.08	0.2	0.03	0.015	-	-	-	-	-	-	-	-	-	-
Ti Grade 2 (Ti40)	98.9% Ti	99	0.25	0.08	0.3	0.03	0.015	-	-	-	-	-	-	-	-	-	-
Ti Grade 4 (Ti70)	98.6% Ti	99	0.4	0.08	0.5	0.05	0.015	-	-	-	-	-	-	-	-	-	-
Titanium Alloys		Ti	O	C	Fe	N	H	Al	Pd	V	Si	Mo	W	Cb	Cr	Sn	Other
Ti Grade 7 (Ti07)	Ti-PD	99	0.25	0.08	0.3	0.03	0.015	-	0.185		-	-	-	-	-	-	-
Ti Grade 9 (Ti32)	Ti-3Al-2.5V	94	0.15	0.08	0.25	0.03	0.015	3	-	2.5	-	-	-	-	-	-	-
Ti Grade 11 (Ti11)	Ti-PD	99	0.18	0.08	0.2	0.03	0.015	-	0.185		-	-	-	-	-	-	-
Ti Beta 21S (Ti21)	Ti-15Mo-2.7Nb-3Al-0.2Si	78	0.17	0.05	0.4	0.03	0.015	3	-	-	0.2	15	0.025	2.7	-	-	-

¹ Elgiloy Specialty Metals, ² Haynes International, ³ Special Metals, ⁴ AK Steel Cleveland Cliffs, ⁵ SPS Technologies, ⁶ Allegheny Technologies Inc. / ATI