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

AS 9100

Nadcap
Administered by PRI
ACCREDITED

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

ALL CALLS & INQUIRIES
P: 888.843.2350 | **F:** 847.695.0169
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ELGILOY LOCATIONS: 1565 FLEETWOOD DRIVE, ELGIN, IL | 1 HAUK ROAD, HAMPSHIRE, IL | 340 BROAD STREET, BRISTOL, CT

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