

ELGILOY

SPECIALTY METALS | STRIP

Stainless Steel Precision Rolling

Elgiloy Specialty Metals offers three precision rolling facilities located in:

- Bristol, CT
- Hampshire, IL
- Elgin, IL

Recognized for our ability to provide tighter than industry tolerances and customized physical properties, Elgiloy Specialty Metals has become a premier North American partner for precision stampers and manufacturers. We offer extensive knowledge, experience, and accreditations that confidently and reliably support many industries including Aerospace, Automotive, Chemical Processing, Consumer, Defense, Electronics, Medical, Oil/Gas, and Power Generation.

Processing Capabilities

Precision Rolling	Gauge - Annealed: 0.0008" to 0.100" (0.02mm to 2.5mm) Gauge - Tempered: 0.0008" to 0.062" (0.02mm to 1.57mm) Width: 6" up to 40"
Precision Slitting	Gauge: 0.0008" to 0.100" (0.012mm to 2.5mm) Width: 0.020" up to 48" (0.50mm to 1219mm)
Edge Finishing	1 Round, 3 Slit, 4 Round, 5 Deburred
Surface Finishes	Standard and custom finishes available
Packaging Options	Pancake coils, spools
Tension Leveling	Available at all rolling facilities
Tech Support	Metallurgical investigation & application assistance for material recommendations.

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
- » Pratt & Whitney LCS

- » DFARs & Globally Sourced options
- » Competitive lead times
- » Tailored order quantities
- » JIT managed inventory programs
- » Precision Slitting capabilities
- » Customized packaging
- » Tempered & Annealed Products
- » Aesthetic and Functional finishes



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



Aerospace



Chemical
Processing



Defense



Medical



Oil & Gas



Power Generation
including nuclear



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ALLOY		NOMINAL COMPOSITION															DENSITY
AUSTENITIC STAINLESS		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	lb/in³
201	FE-CR-MN	71	17	4.5	6.5	1	0.15	0.06	0.03	0.25	-	-	-	-	-	-	0.282
201L	FE-CR-MN	71	17	4.5	6.5	0.75	0.03	0.045	0.03	0.25	-	-	-	-	-	-	0.284
301	FE-CR-NI	73	17	7	2	1	0.15	0.045	0.03	0.1	-	-	-	-	-	-	0.285
301Si	FE-CR-NI	71	17	7	2	1.2	0.15	0.045	0.03	0.2	1	-	-	-	-	-	0.285
304	FE-CR-NI	70	19	8.0	2	0.75	0.08	0.045	0.03	0.1	-	-	-	-	-	-	0.285
304 8.5% Min	FE-CR-NI	69	19	8.5	2	0.75	0.08	0.045	0.03	0.1							0.285
304L	FE-CR-NI	70	19	8	2	0.75	0.03	0.045	0.03	0.1	-	-	-	-	-	-	0.285
304L 9% Min	FE-CR-NI	69	19	9	2	0.75	0.03	0.045	0.03	0.1							0.285
305	FE-CR-NI	67	18	11.75	2	0.75	0.12	0.045	0.03	-	-	-	-	-	-	-	0.285
309S	FE-CR-NI	61	23	13.5	2	0.75	0.08	0.045	0.03	-	-	-	-	-	-	-	0.290
310S	FE-CR-NI	51	25	20.5	2	1.5	0.08	0.045	0.03	-	-	-	-	-	-	-	0.290
316L	FE-CR-NI	66	17	12	2	0.75	0.03	0.045	0.03	0.1	2.5	-	-	-	-	-	0.285
316Ti	FE-CR-NI	65	17	12	2	0.75	0.08	0.045	0.03	0.1	2.5	-	-	0.7			0.289
317L	FE-CR-NI	62	19	13	2	0.75	0.03	0.045	0.03	0.1	3.5	-	-	-	-	-	0.290
321	FE-CR-NI	68	18	10.5	2	0.75	0.08	0.045	0.03	0.1	-	-	-	0.7	-	-	0.290
347	FE-CR-NI	67	18	11	2	0.75	0.08	0.045	0.03	-	-	-	-	-	1	-	0.288
SUPER AUSTENITIC STAINLESS		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	lb/in³
254 SMO	FE-CR-NI-MO	51	20	18	1	1	0.02	0.03	0.01	2.15	6.25	0.75	-	-	-	-	0.287
904L	FE-NI-CR-MO	44	21	25.5	2	1	0.02	0.045	0.035	0.1	4.5	1.5	-	-	-	-	0.287
INCOLOY® 800 ³	FE-NI-CR	40	21	32.5	1.5	1	0.1	0.045	0.015	-	-	0.75	0.375	0.375	-	-	0.287
INCOLOY® 800H ³	FE-NI-CR	40	21	32.5	1.5	1	0.075	0.045	0.015	-	-	0.75	0.375	0.375	-	-	0.287
FERRITIC STAINLESS		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	lb/in³
409	FE-CR	86	11	0.5	1	1	0.03	0.04	0.02	0.03	-	-	-	0.5	0.17	-	0.280
430	FE-CR	80	17	0.75	1	1	0.12	0.04	0.03	-	-	-	-	0.25	-	-	0.280
436	FE-CR	79	17	-	1	1	0.12	0.04	0.03	-	1	-	-	-	0.8	-	0.280
439	FE-CR	78	18	0.5	1	1	0.03	0.04	0.03	0.03	-	-	0.15	1.1	-	-	0.278
PH STAINLESS STEELS		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	lb/in³
17-7 PH ⁴	FE-CR-NI	73	17	7.1	1	1	0.09	0.04	0.03	-	-	-	1.1	-	-	-	0.282
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	0.287
AM-350 ⁶	FE-CR-NI	75	16.5	4.5	0.9	0.5	0.09	0.04	0.03	-	2.75	-	-	-	-	-	0.286
DUPLEX STAINLESS STEELS		Fe	Cr	Ni	Mn	Si	C	P	S	N	Mo	Cu	Al	Ti	Cb	B	lb/in³
2202	FE-CR	72	22.75	1.9	2	1	0.03	0.04	0.01	0.22	0.45	-	-	-	-	-	0.282
2205	FE-CR-NI	66	22.5	5.5	2	1	0.03	0.03	0.02	0.17	3.25	-	-	-	-	-	0.285
2507	FE-CR-NI	61	25	7	1.2	0.8	0.03	0.035	0.02	0.28	4	0.5	-	-	-	-	0.282

STAINLESS STEEL REFERENCE GUIDE

(OTHERS AVAILABLE UPON REQUEST)

GRADE	ANNEALED	¼ HARD	½ HARD	¾ HARD	FULL HARD
201	ASTM-A-240, ASTM-A-666				
301	ASTM-A-240, ASTM-A-666	AMS-5517, ASTM-A-666	AMS-5518, ASTM-A-666	AMS-5902, ASTM-A-666	AMS-5519, ASTM-A-666
302	ASTM-A-240, ASTM-A-666	AMS-5903, ASTM-A-666	AMS 5904, ASTM-A-666	AMS-5905, ASTM-A-666	AMS-5906, ASTM-A-666
304	ASTM-A-240, ASTM-A-666, ASME-SA-240	ASTM-A-5910, ASTM-A-666	ASTM-A-5911, ASTM-A-666	AMS-5912	AMS-5513
304L	ASTM-A-240, ASTM-A-666, ASME-SA-240	ASTM-A-666	ASTM-A-666		
305	ASTM-A-240, ASME-SA-240				
306L	ASTM-A-240, ASTM-A-666, ASME-SA-240	ASM-5907, ASTM-A-666			
321	ASTM-A-240, ASME-SA-240				
430	ASTM-A-240				

FINISHES

(OTHERS AVAILABLE UPON REQUEST)

COMMERCIAL BRIGHT ANNEALED	BA1
SMOOTH/BRIGHT 2BA	BA2
ULTRA SMOOTH 2BA	BA4
LITE MATTE - 2B ALTERNATIVE	CA1
DULL SURFACE APPEARANCE	CA2
DULL HIGH FRICTION	CA3
TEMPER ROLLED	TR1



¹ ElgiLOY Specialty Metals, ² Haynes International, ³ Special Metals, ⁴ AK Steel Cleveland Cliffs, ⁵ SPS Technologies, ⁶ Allegheny Technologies Inc. / ATI, ⁷ Carpenter Technology, ⁸ CRS Holdings, inc., Delaware



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