

Stainless steel

High-quality, light-gauge coil and strip – made to your specifications

Stainless steel grades

301	304L	420
302	305	430
304	316L	

Capabilities

Rolling	0.0012" to 0.028"
Slitting	0.180 - 13.500" wide
Order sizes	250 lbs. and up
Traverse-wound reels	500 lbs./1000 lbs.
Pancake coils	Size up to 580 PIW, (I.D. 4", 6", 8", 10", 12", 16")
Processing	Multiple coil

NOTE: Wieland Heyco is a major supplier to distributors on a national basis and also offers toll conversion programs.

Why Wieland Heyco

Wieland Heyco has built a reputation for industry-leading quality, rapid response, outstanding technical support, and on-time delivery. Our extremely short lead times can keep your inventories lean while meeting unpredictable spikes in demand. With over four decades of metals experience, Wieland Heyco has done it all, including pioneering the use of real-time 100% surface inspection to ensure pristine surface quality.

Our wide variety of products are ready to be turned around – accurately and quickly – to meet your specific demands. We consistently produce stainless steel coil and strip that we're proud to identify as Wieland Heyco.



Here's more of what sets us apart

- Non-contact gauge control at rolling eliminates diamond marks – essential for leadframe, connector, and decorative applications. Similarly, non-contact air wipes eliminate wiper marks typically seen on static, rubber-wiped product
- Proprietary oil filtration keeps rolling lubricant free of particulate matter and virtually eliminates any possibility of roll marks
- Automated on-line surface inspection (pioneered by Wieland Heyco), via Cognex vision systems, allows 100% surface integrity without reliance on error-prone human inspection
- Lead times at Wieland Heyco are consistently far shorter than those of our competitors
- Superior on-time delivery rate that outperforms the industry

Look to Wieland Heyco for:

- Rolling
- Strand annealing
- Slitting
- Stretch-band leveling
- Traverse winding

Stainless steel specifications

Alloy	301	302	304	304-L	305	316-L	430	420
UNS#	S30100	S30200	S30400	S30403	S30500	S31603	S43000	S42000
ASTM	A-666/ A-240	A-666/ A-240	A-666/ A-240	A-666/ A-240	A-240	A-666/ A-240	A-240	A-240
C % max.	0.15	0.15	0.07	0.030	0.12	0.030	0.12	0.15 min
Mn % max.	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00
P % max.	0.045	0.045	0.045	0.045	0.045	0.045	0.040	0.040
S % max.	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
Si % max.	1.00	0.75	0.75	0.75	0.75	0.75	1.00	1.00
Cr %	16.0-18.0	17.0-19.0	18.0-20.0 [†]	18.0-20.0 [†]	17.0-19.0	16.0-18.0	16.0-18.0	12.0-14.0
Ni %	7.0 min	8.0-10.0	8.0-10.5	8.0-12.0	10.5-13.0	10.0-14.0	0.75 max.	0.75 max.
N % max.	0.10	0.10	0.10	0.10		0.10		
Mo % max.						2.00-3.00		.50
Physical properties								
Density (lb/in ³)	0.286	0.286	0.286	0.286	0.286	0.288	0.278	0.280
Mod of elast. in tension (psi*10 ⁶)	30.7	28	28	28	28	28	29	29
Elect resist. at room temp (microhomm-in)	72	72	72	72	72	74	60	55
Thermal cond (BTU/hr/ft ² /ft) at 212F	9.6	9.6	9.6	9.6	9.6	11.3	18.1	17.3
Coef thermal exp (10 ⁶ /in-F) at 32F-212F	12.0	12.0	12.0	12.0	12.0	8.9	5.8	5.7
Annealed								
Tensile (ksi)	75 min.	75 min.	75 min.	70 min.	70 min.	70 min.	65 min.	100,000 max.
0.2% yield (ksi)	30 min.	30 min.	30 min.	25 min.	25 min.	25 min.	30 min.	N/A
Elong (% in 2")	40 min.	40 min.	40 min.	40 min.	40 min.	40 min.	20 min. ¹	15 min.
Rockwell B	95 max.	92 max.	92 max.	92 max.	88 max.	95 max.	89 max.	96 max.
1/4 hard								
Tensile (ksi)	125 min.	125 min.	125 min.	125 min.		125 min.		
0.2% Yield (ksi)	75 min.	75 min.	75 min.	75 min.		75 min.		
Elong (% in 2")	25 min.	10 min.	10 min.	8 min.		10 min.		
1/2 hard								
Tensile (ksi)	150 min.	150 min.	150 min.	150 min.		150 min.		
0.2% yield (ksi)	110 min.	110 min.	110 min.	110 min.		110 min.		
Elong (% in 2")	15 min. ² (18 min. ³)	9 min. ² (10 min. ³)	6 min. ² (7 min. ³)	5 min. ² (6 min. ³)		5 min. ² (6 min. ³)		
3/4 hard								
Tensile (ksi)	175 min.	175 min.	-	-		-		
0.2% yield (ksi)	135 min.	135 min.	-	-		-		
Elong (% in 2")	10 min. ² (12 min. ³)	5 min. ² (6 min. ³)	-	-		-		
Full hard								
Tensile (ksi)	185 min.	185 min.	-	-		-		
0.2% yield (ksi)	140 min.	140 min.	-	-		-		
Elong (% in 2")	8 min. ² (9 min. ³)	3 min. ² (4 min. ³)	-	-		-		

¹under 0.050"
²< 0.015"
³0.015 - 0.020"

[†]properties not formally included in A-666
[†]Cr% shown per A-666

AMS (aerospace), SAE (automotive) EN DIN (European), JIS (Japan) specifications are also available upon request.

Note: This data is presented for comparison purposes and not intended for use as engineering or purchasing specifications.

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