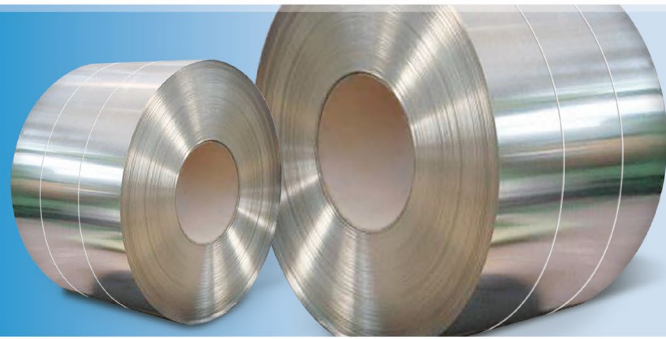




# Stainless Steel

High Quality, Light Gauge Coil and Strip—  
Made to Your Specifications



## Grades

Heyco offers a wide range of stainless steel grades including:

- 301
- 302
- 304
- 304-high-nickel
- 304L
- 305
- 316
- 316L
- 420
- 430
- Nickel 201
- Alloy 42

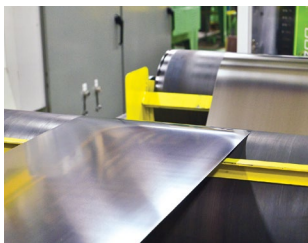
## Capabilities

Rolling:	.002" to .020"
Slitting:	.180 - 13.500" wide
Weight:	250 lbs. and up
Traverse-wound reels:	500lb/1000lb/2000lb
Pancake coils:	size up to 580 PIW, (I.D. 4, 6, 8, 10, 12, 16")
Processing:	multiple coil

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

## Why Heyco Metals

Heyco Metals 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, Heyco Metals 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 “Heyco Metals.”

### 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
- Thermal degreasing provides oil-free surfaces without the abrasion and contact associated with aqueous cleaning lines
- Automated on-line surface inspection (pioneered by Heyco), via Cognex vision systems, allows 100% surface integrity without reliance on error-prone human inspection
- Stringent preventive maintenance ensures that equipment downtime is an extremely rare occurrence
- Raw materials are sourced throughout the world in order to secure an optimal combination of value and capability
- Lead times at Heyco are consistently far shorter than those of our competitors
- 95% + On-Time-Delivery
- Heyco’s technical staff represents decades of combined experience that can provide valuable support for leadframe, connector, architectural, and general usage applications
- Corporate stability, conservative cash management and private shareholder base facilitate ongoing investment in the finest strip-processing technology available

### Look to Heyco Metals for:

- Rolling • Strand Annealing
- Stretch Bend Leveling • Slitting

[www.heycometals.com](http://www.heycometals.com)

# Stainless Steel Specifications



ALLOY	301	302	304	304-L	305	316	316-L	430	420
UNS#	S30100	S30200	S30400	S30403	S30500	S31600	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-666/A-240	A-240	A-240
C % max	0.15	0.15	0.07	0.030	0.12	0.08	0.030	0.12	0.15
Mn % max	2.00	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	0.045	0.040	0.040
S % max	0.030	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	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	16.0-18.0	12.0-14.0
Ni %	7.0	8.0-10.0	8.0-10.5	8.0-12.0	10.5-13.0	10.0-14.0	10.0-14.0	0.75 max	0.75 max
N % max	0.10	0.10	0.10	0.10		0.10	0.10		
Mo % max						2.00-3.00	2.00-3.00		0.50
<b>PHYSICAL PROPERTIES</b>									
Density (lb/in <sup>3</sup> )	.029	.029	.029	.029	.029	.029	.029	.028	
Mod. of elast. in tension (psi*10 <sup>6</sup> )	28	28	28	28	28	28	28	29	
Elect. resist. at room temp. (microhmm-in)	72	72	72	72	72	74	74	60	
Thermal cond. (BTU/hr/ft <sup>2</sup> /ft) at 212F	9.4	9.4	9.4	9.4	9.4	9.4	9.4	15.1	
Coef thermal exp. (10 <sup>-6</sup> /in-F) at 32F-212F	9.4	9.6	9.6	9.6	9.6	8.9	8.9	5.8	
<b>ANNEALED</b>									
Tensile (ksi)	75 min	75 min	75 min	70 min	70 min	75 min	70 min	65 min	100,000 max
0.2% Yield (ksi)	30 min	30 min	30 min	25 min	25 min	30 min	25 min	30 min	N/A
Elong (% in 2")	40 min	40 min	40 min	40 min	40 min	40 min	40 min	20 min <sup>1</sup>	15min
Rockwell B	95 max	92 max	92 max	92 max	88 max	95 max	95 max	89 max	96max
<b>1/4 HARD</b>									
Tensile (ksi)	125 min	125 min	125 min	125 min		125 min	125 min		
0.2% Yield (ksi)	75 min	75 min	75 min	75 min		75 min	75 min		
Elong (% in 2")	25 min	10 min	10 min	8 min		10 min	10 min		
<b>1/2 HARD</b>									
Tensile (ksi)	150 min	150 min	150 min	150 min		150 min	150 min		
0.2% Yield (ksi)	110 min	110 min	110 min	110 min		110 min	110 min		
Elong (% in 2")	15 min <sup>2</sup> (18 min <sup>3</sup> )	9 min <sup>2</sup> (10 min <sup>3</sup> )	6 min <sup>2</sup> (7 min <sup>3</sup> )	5 min <sup>2</sup> (6 min <sup>3</sup> )		6 min <sup>2</sup> (7 min <sup>3</sup> )	5 min <sup>2</sup> (6 min <sup>3</sup> )		
<b>3/4 HARD</b>									
Tensile (ksi)	175 min	175 min	*	*		*	*		
0.2% Yield (ksi)	135 min	135 min	*	*		*	*		
Elong (% in 2")	10 min <sup>2</sup> (12 min <sup>3</sup> )	5 min <sup>2</sup> (6 min <sup>3</sup> )	*	*		*	*		
<b>FULL HARD</b>									
Tensile (ksi)	185 min	185 min	*	*		*	*		
0.2% Yield (ksi)	140 min	140 min	*	*		*	*		
Elong (% in 2")	8 min <sup>2</sup> (9 min <sup>3</sup> )	3 min <sup>2</sup> (4 min <sup>3</sup> )	*	*		*	*		

1 under .050" 2 < .015" 3 .015 - .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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