

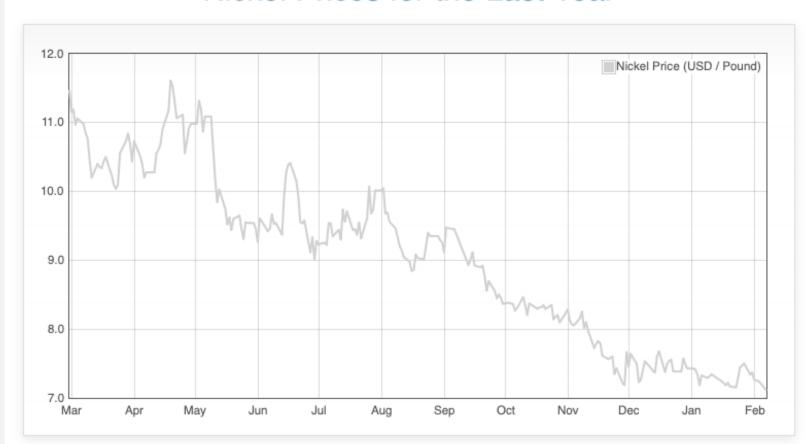
PENN STAINLESS PRODUCTS, INC.

STAINLESS PRICING UPDATE FEBRUARY 1, 2024



NICKEL

Nickel Prices for the Last Year



Date	USD/lb.
1/2/23	\$13.56
2/1/23	\$13.20
3/1/23	\$11.19
4/3/23	\$10.51
5/1/23	\$10.98
6/1/23	\$9.61
7/3/23	\$9.26
8/1/23	\$10.04
9/1/23	\$9.48
10/2/23	\$8.39
11/1/23	\$8.12
12/1/23	\$7.64
1/1/24	\$7.43
2/1/24	\$7.25



CHROME

Chrome \$/lb



European Ferrochrome Benchmark	Surcharge Month Applied
Q1	February, March and April
Q2	May, June and July
Q3	August, September and October
Q4	November, December and January

PENN STAINLESS PRODUCTS, INC.



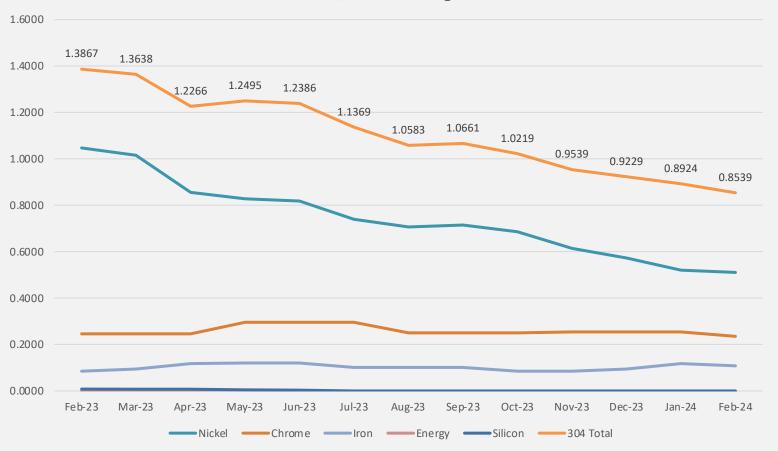
MOLYBDENUM





RAW MATERIAL SURCHARGES (304/304L)





Grade	Current Surcharge
304	\$0.8539

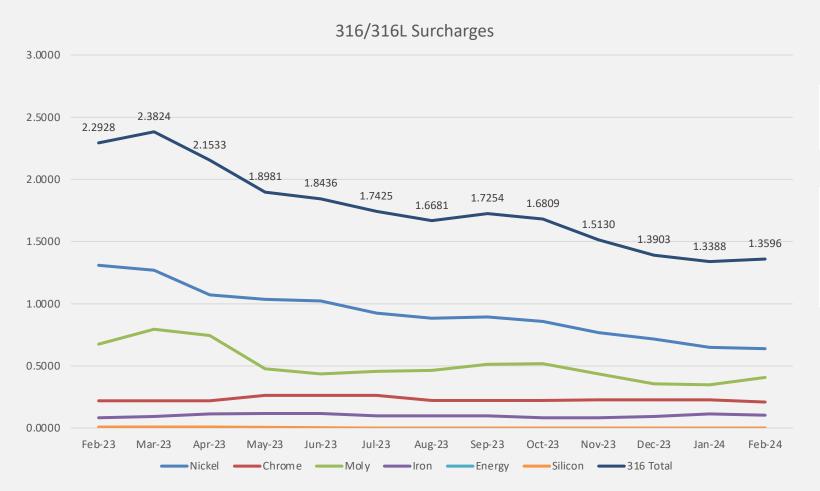
Date Range	304 Surcharge Change
Since Jan 2024	-4.3%
Last 12 months	-38.4%

Note – Surcharges are for flat-rolled product.





RAW MATERIAL SURCHARGES (316/316L)



Grade	Current Surcharge
316	\$1.3596

Date Range	316 Surcharge Change
Since Jan 2024	+1.6%
Last 12 months	-40.7%

Note – Surcharges are for flat-rolled product.





LINE CARD



INVENTORY OVERVIEW

PLATE & DIAMOND PLATE

3/16" through 6" thick - Mill Finish & #4 Polish - Diamond Plate 3/16" to 1/2"

Grades Available: 302 • 303 • 304 • 304/L • 304H • 304 #4 Polish • 309S • 310S • 316L • 317L 321/H • 330 • 347/H • 430 • Duplex 2205 • 2507 • 254SMO • 17-4PH • 405 • 410 • 416 • 420 • 440C • Alloy 20

28 through 7 Gauge – 36"-72" Wide – 2B Finish • #4 Finish • #8 Finish • Perforated • Expanded Metal

Grades Available: 302 • 304 • 304/L • 304 #4 Polish • 304 #8 Mirror • 309S • 310S • 316L • 316L #4 Polish

321 • Duplex 2205 • 409 • 410 • 430 • 4308A • 17-4PH • 17-7PH • 3011/4 Hard • 3011/2 Hard • 301 Full Hard • Alloy 20

BAR: ROUND • SQUARE • HEX • ROLLED FLAT • S/E FLAT BAR • HALF ROUNDS

Size Range: Round 3/32" thru 26" – 12'-20' R/L – Accuracy & Bearing Quality

Grades Available: 302 • 303 • 304/L • 310S • 316/L • 321 • 347 • Duplex 2205 • 410 • 410HT • 416

416HT • 416PSQ • 420 • 431 • 440C • 17-4Ph • 17-4H1150 • Duplex 2205 • Alloy 20

STRUCTURAL: ANGLES • UNEVEN LEG ANGLES • CHANNEL • TEES • BEAMS

Laser-fused & Hot-rolled Structurals • Ornamentals in Recs, Squares and Rounds

Grades Available: 304 • 304/L • 316/L

TUBING: SEAMLESS & WELDED • SANITARY TUBE (304/316 only) • HEAVY WALL HOLLOW BAR

Size Range: 1/16" OD through 14" OD • Light gauge up to 2" thick wall

Grades Available: 304/L • 304H • 309 • 310 • 316L • 321 • 347 • Duplex 2205 • Alloy 20 • Nickel Alloys

PIPE: WELDED & SEAMLESS

Size Range: 1/8" through 24" – Sch: 5 thru DXH

Grades Available: 304/L • 304H • 309 • 310 • 316/L • 317/L • 321/H • 347/H • Duplex 2205 • Nickel Alloys

PENNMET 2000 MACHINING BAR

Available in round, square and hex

Improved machinability - Consistent performance from lot to lot - Longer tool life - Improved surface finish - Excellent availability

MATERIAL PROCESSING

SPECIALTY PIPE AND TUBE

Supply of non-standard tube, pipe and structural items with reduced lead times. Size range ¼" through 96" diameter, with wall thicknesses through 3"

Grades Available: 300 Series • Duplex Grades • 6-Moly • Nickel Alloys

Waterjet cutting through 8-1/2" • Cutting envelope 13' x 40' (six waterjet stations)

Laser plate cutting through 1-3/4" • Cutting envelope 8' x 20'

Shear cutting • Plate saw cutting • HQ Plasma cutting • Machine cut rings & discs • Processed flat bar

BAR & LONG PRODUCT PROCESSING

Cutting through 26" diameter • Production cutting with precision tolerances through 4" diameter

Tubular products, structurals and bar products can be cut to the exact length.

24-Hour Emergency Service - Call 267-374-6463



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WWW.PENNSTAINLESS.COM

LONG PRODUCT TOLERANCES FLAT ROLLED TOLERANCES

1/6	10	0/10	(exclusive)	0.001	0.001
5/16"	to	1/2"	(exclusive)	0.0015	0.0015
1/2"	to	1"	(exclusive)	0.002	0.002
1'	to	1-1/2"	(exclusive)	0.0025	0.0025
1-1/2"	to	4"	(inclusive)	0.003	0.003
IF Tolerances				Plus	Minus
Over 2"	to	2-1/2"	(inclusive)	1/32	0.000
Over 2-1/2"	to	3-1/2"	(inclusive)	3/64	0.000
Over 3-1/2"	to	4-1/2"	(inclusive)	1/16	0.000
4-1/4"	to	5-1/2"	(inclusive)	5/64	0.000

STAINLESS HOT FINISHED FLATS ROLLED AS BAR PER ASTM A479 / A484

Width	Miles		Thickness Tolerance in Inches				
(inches)	Width Tolerance	1/8 - 1/2	over 1/2 - 1	over 1-2	over 2-4	over 4-6	over 6 - 8
to 1 (incl)	+0.015 -0.015	+0.008	+0.010			=	=
over 1 to 2	+0.031	+0.012	+0.015	+0.031			
over 2 to 4	+0.062	+0.015 -0.015	+0.020	+0.031	+0.062	=	=
over 4 to 6	+0.093	+0.015	+0.020	+0.031	+0.062	+0.093	
over 6 to 8	+0.125 -0.156	+0.016 -0.016	+0.025	+0.031	+0.062	+0.093	+0.125

STAINLESS SEAMLESS & WELDED STANDARD PIPE PER ASTM A312 / A999 / A1016

	Outside Diameter Tolerances					
Nominal Pipe Size Inches	A312 S	eamless	A312 Welded			
	Plus	Minus	Plus	Minus		
1/8 IPS to 1-1/2 IPS incl.	.015	.031	.015	.031		
>1-1/2 IPS to 4 IPS incl.	.031	.031	.031	.031		
>4 IPS to 8 IPS incl.	.062	.031	.062	.031		
>8 IPS to 18 IPS incl.	.093	.031	.093	.031		
Wall Tolerances	By Wt.	12.5%	By Wt.	12.5%		
Weight Tolerances	10.0%	3.5%	10.0%	3.5%		

STAINLESS SEAMLESS & WELDED

5 5-1/2 to 8, excl

6 8 to 12, excl

PENN STAINLESS PRODUCTS, INC.

Group	Size, Outside Diameter, in.	Permissible Variations in Outside Diameter, in.	Permissible Variation in Wall Thickness,
- 1	Up to 1/2	±0.005	±15
2	1/2 to 1-1/2, excl	±0.005	±10
3	1-1/2 to 3-1/2, excl	.±0.010	±10
4	3-1/2 to 5-1/2, excl	±0.015	±10

±0.030

±0.040

COLD ROLLED SHEET / COIL PER ASTM A480

Permitted Variations in Thickness for Cold-Rolled, Narrow, Coll-Processed Product as

		Tolerances, for the is Given, Over and			
Specified Thickness, in.	Width (w), in.				
	± 40	40 < w ≤ 50	50 < w ≤84		
		Thickness Tolerar	ces		
Over 0.012 to 0.015, incl.	0.0015	0.0015	_		
Over 0.016 to 0.020, incl.	0.0015	0.0015	-		
Over 0.020 to 0.024, incl.	0.002	0.002	-		
Over 0.025 to 0.032, incl.	0.002	0.002			
Over 0.033 to 0.040, incl.	0.0025	0.0025	0.003		
Over 0.041 to 0.047, incl.	0.003	0.003	0.003		
Over 0.048 to 0.059, incl.	0.003	0.003	0.004		
Over 0.060 to 0.079, incl.	0.004	0.004	0.0045		
Over 0.099 to 0.118, incl.	0.005	0.005	0.006		
Over 0.119 to 0.157, incl.	0.007	0.007	0.007		
Over 0.158 to 0.197, incl.	0.007	0.007	0.0075		
Over 0.198 to 0.236, incl.	0.007	0.008	0.009		
Over 0.236 to 0.3125, incl.	0.007	0.009	0.010		

Thickness measurements are taken at least 3/8 in. in from the edge of the product, except on widths less than 1 in. the measurements should be taken at least 1/8 in. from the product edge.

Note 2 - The tolerances in this table include crown tolerances

HOT BOLLED SHEET / CON BED ASTM A 490

Specified Thickness*, in.	Permitted Variation, in., Over and Under, Except a Indicated Otherwise, for Specified Width (w) in.		
Inickness*, in.	w ≤ 60	w > 60	
>0.1875 to 0.250	-0.010, +0.020	-0.010, +0.020	
>0.250 to 0.3125	-0.010, +0.022	-0.010, +0.022	
>0.3125	-0.010, +0.030	-0.010, +0.030	

PLATE THICKNESS PER ASTM A480

Tolerance below apply to the following alloys: 300 Series and 400 Series Stainless 17-4, Duplex Grade. Tolerances listed were taken from ASTM A480 (Reference Or

Specified Thickness (t), in.	Width (w), in.			
	W ≤ 84	84 < w ≤ 120	120< w ≤ 144	W>144
	Tolerance Over Specified Thickness, in.			
t < 3/16	0.055	0.070	-	=
3/16 ≤ t < 3/8	0.045	0.050	0.085	=
3/8≤ t < 3/4	0.055	0.060	0.085	0.090
3/4 ≤ t < 1	0.060	0.065	0.085	0.100
1≤t<2	0.070	0.075	0.095	0.115
2 ≤ t < 3	0.125	0.150	0.175	0.200
3≤1<4	0.150	0.160	0.200	0.225
4≤t<6	0.180	0.200	0.335	0.355
6≤t<8	0.235	0.255	0.355	0.435
8 s t < 10	0.315	0.335	0.435	0.550

- Thickness is measured along the longitudinal edges of the plate at least 3/8 in., but not more than 3 in., from the edge
- For plates up to 10 in. excl, in thickness, the tolerance under the specified thickness
- Fiatness of plate mill plate is measured in any 36° area while the plate rests on flat surface with concavity of the curvature upward. Full plates only. There is no ASTM tolerance on cut plate.

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THANK YOU.

