



PENN STAINLESS PRODUCTS, INC.

**STAINLESS PRICING UPDATE
MARCH 1, 2024**



NICKEL

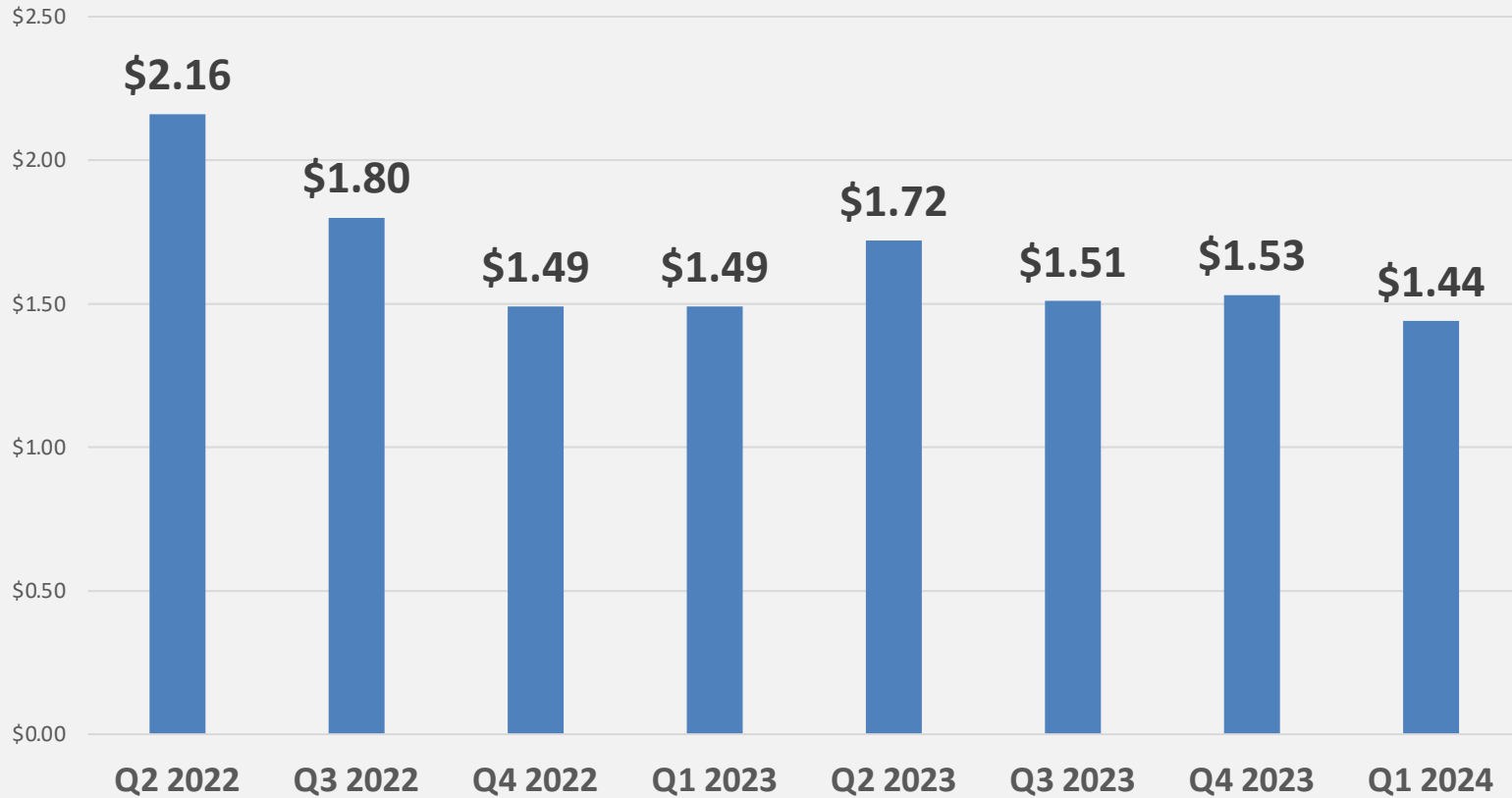
Nickel Prices for the Last Year



Date	USD/lb.
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
3/1/24	\$7.91

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



MOLYBDENUM

Molybdenum Prices for the Last Year

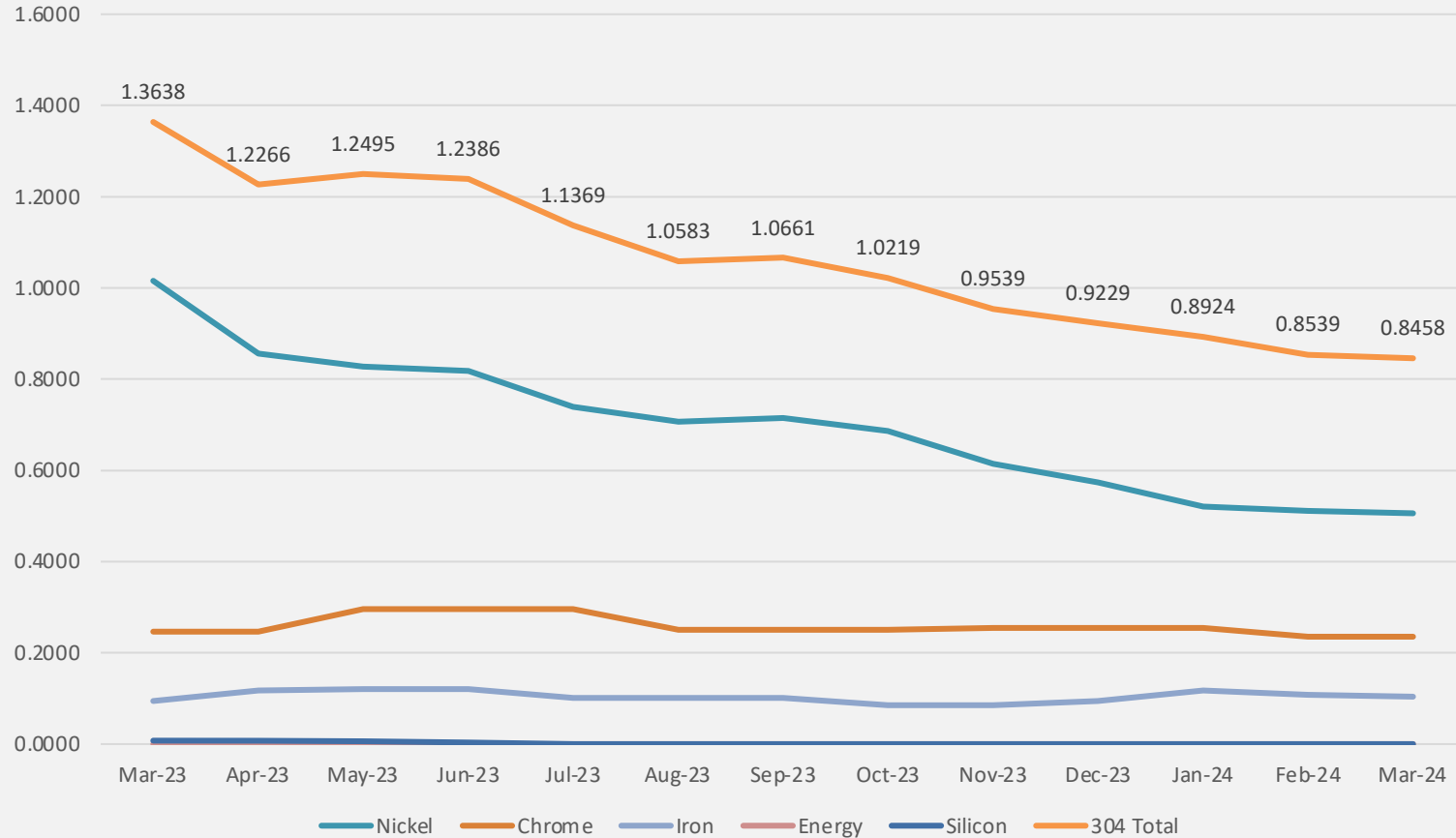


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RAW MATERIAL SURCHARGES (304/304L)

304/304L Surcharges



Grade	Current Surcharge
304	\$0.8458

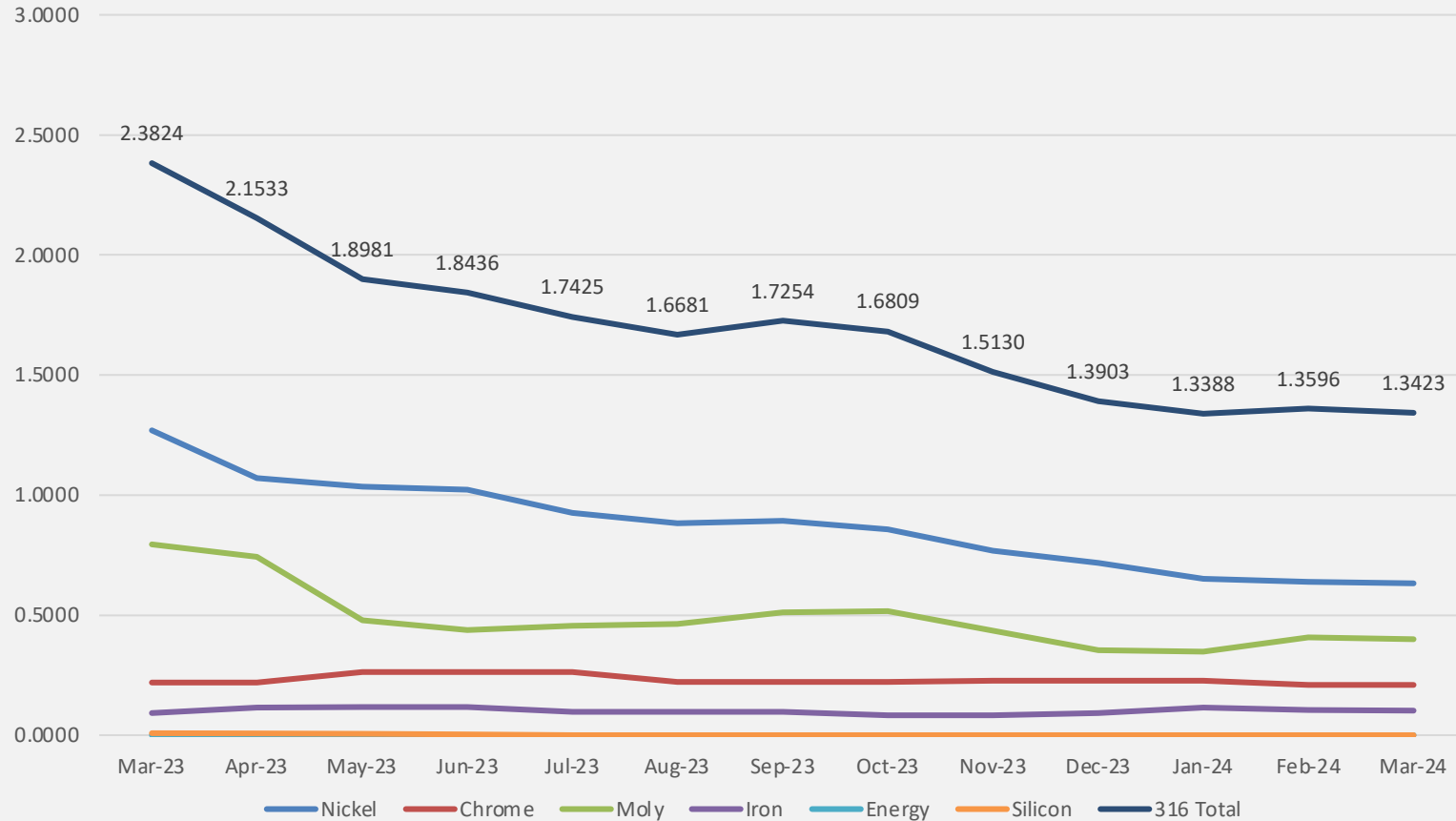
Date Range	304 Surcharge Change
Since Jan 2024	-5.2%
Last 12 months	-38.0%

Note – Surcharges are for flat-rolled product.



RAW MATERIAL SURCHARGES (316/316L)

316/316L Surcharges



Grade	Current Surcharge
316	\$1.3423

Date Range	316 Surcharge Change
Since Jan 2024	+0.3%
Last 12 months	-43.7%

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 • 2545MO • 17-4PH • 405 • 410 • 416 • 420 • 440C • Alloy 20

SHEET PRODUCTS

2B 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 • #4 Polish

321 • Duplex 2205 • 409 • 410 • 430 • 430BA • 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 Structural • Ornamentals in Reqs, 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 • 316/L • 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

PENNETM 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 1/4" through 96" diameter, with wall thicknesses through 3"

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

PLATE PROCESSING

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



PENN STAINLESS PRODUCTS, INC.

PENN STAINLESS PRODUCTS, INC. • 190 KELLY ROAD • QUAKERTOWN, PA 18951 USA
TOLL FREE: 1-800-222-6144 • PHONE: 215-536-3053 • FAX: 215-536-3255

WWW.PENNSTAINLESS.COM

LONG PRODUCT TOLERANCES

STAINLESS ROUND BAR PER ASTM

CF Tolerances	Plus	Minus
1/8" to 5/16" (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

HF 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
5-1/2" to 6-1/2" (inclusive)	1/8	0.000
6-1/2" to 8" (inclusive)	5/32	0.000
8" to 12" (inclusive)	3/16	0.000
12" to 16" (inclusive)	7/32	0.000
16" to 25" (inclusive)	1/4	0.000

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

Width (inches)	Thickness Tolerance in Inches	Thickness Tolerance in Inches					
		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 -0.008	+0.010 -0.010	---	---	---	---
over 1 to 2	+0.031 -0.031	+0.012 -0.012	+0.015 -0.015	+0.031 -0.031	---	---	---
over 2 to 4	+0.062 -0.062	+0.015 -0.015	+0.020 -0.020	+0.031 -0.031	+0.062 -0.062	---	---
over 4 to 6	+0.093 -0.093	+0.015 -0.015	+0.020 -0.020	+0.031 -0.031	+0.062 -0.062	+0.093 -0.093	---
over 6 to 8	+0.125 -0.156	+0.016 -0.016	+0.025 -0.025	+0.031 -0.031	+0.062 -0.062	+0.093 -0.156	+0.125
over 8 to 10	+0.156 -0.167	+0.020 -0.020	+0.031 -0.031	+0.031 -0.031	+0.062 -0.062	+0.093 -0.156	+0.125

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

Nominal Pipe Size Inches	Outside Diameter Tolerances			
	A312 Seamless Plus	A312 Seamless Minus	A312 Welded Plus	A312 Welded 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 STANDARD TUBING PER ASTM A269

Group	Size, Outside Diameter, In.	Permissible Variations in Outside Diameter, In.		Permissible Variations in Wall Thickness, %
		+15	-15	
1	Up to 1/2	+0.005	---	---
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	---
5	5-1/2 to 8, excl	+0.030	±10	---
6	8 to 12, excl	+0.040	±10	---
7	12 to 14, excl	+0.050	±10	---



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FLAT ROLLED TOLERANCES

COLD ROLLED SHEET / COIL PER ASTM A480

Permitted Variations in Thickness for Cold-Rolled, Narrow, Cold-Processed Product as Coils and Cut Lengths

Specified Thickness, in.	Thickness Tolerances, for the Thickness and Widths Given, Over and Under, in.		
	Width (w), in.		
	≤ 40	40 < w ≤ 50	50 < w ≤ 64
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 0.058, 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

Note 1 - 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 ROLLED SHEET / COIL PER ASTM A480

Specified Thickness ¹ , in.	Permitted Variation, in., Over and Under, Except as Indicated Otherwise, for Specified Width (w) in.		
	w ≤ 10	10 < w ≤ 30	w > 30
>0.1875 to 0.250	-0.010, +0.020	-0.010, +0.020	-0.010, +0.020
>0.250 to 0.3125	-0.010, +0.022	-0.010, +0.022	-0.010, +0.022
>0.3125	-0.010, +0.030	-0.010, +0.030	-0.010, +0.030

¹Thickness measurements are taken at least 3/8 in. from the edge of the sheet.

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 (**Permissible Variation in Thickness of Hot-Rolled Mill Plate (Quarto Plate)).

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

¹ Thickness is measured along the longitudinal edges of the plate at least 3/8 in., but not more than 3 in., from the edge.

² For plates up to 10 in. incl. in thickness, the tolerance under the specified thickness is 0.010 in.

³ Flatness 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.

⁴ Flatness of coil plate is measured on a flat surface with curvature upward and measuring the deviation from a horizontal flat surface.

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THANK YOU.

