



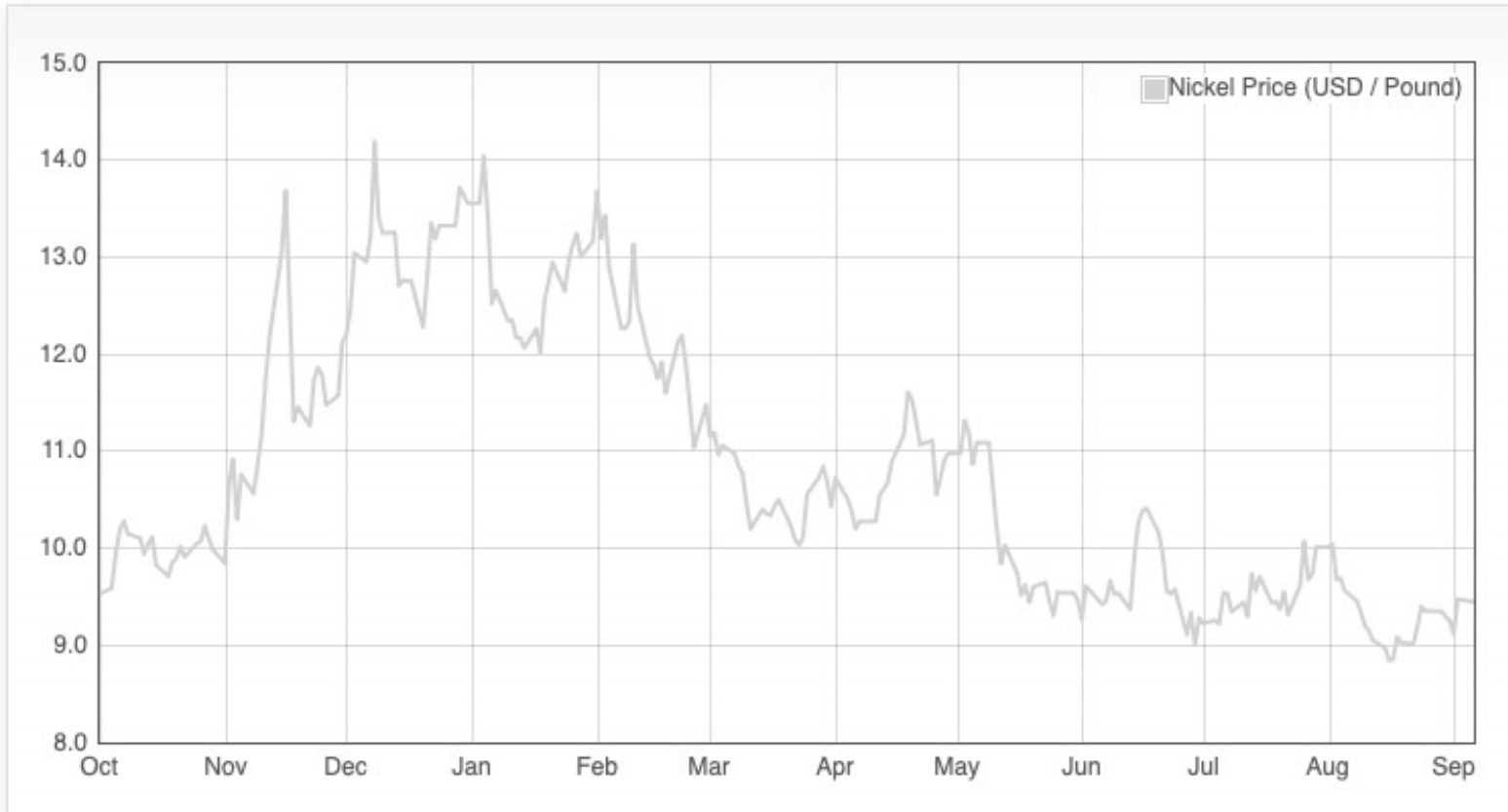
# **PENN STAINLESS PRODUCTS, INC.**

**STAINLESS PRICING UPDATE  
SEPTEMBER 1, 2023**



# NICKEL

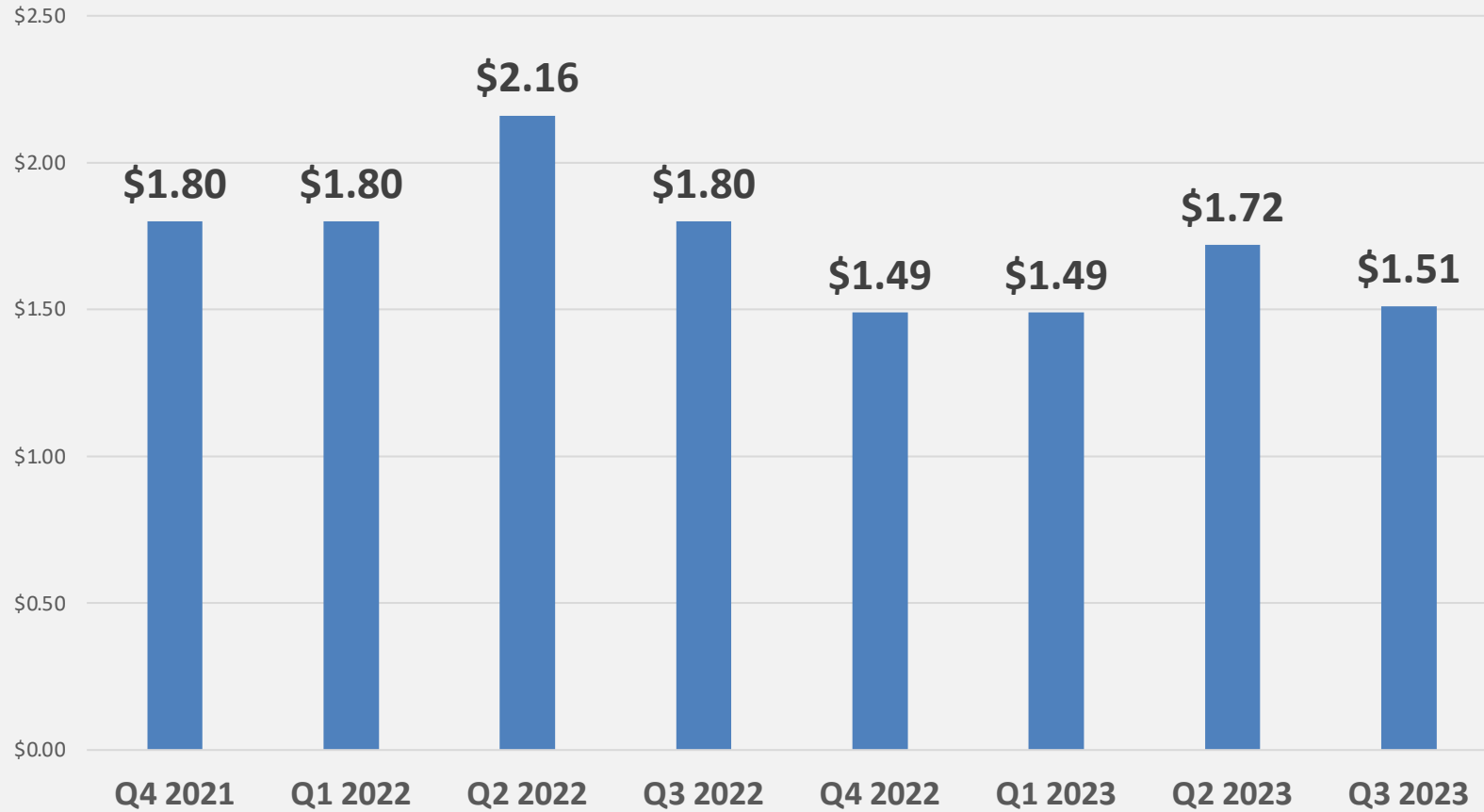
## Nickel Prices for the Last Year



| Date    | USD/lb. |
|---------|---------|
| 8/1/22  | \$8.95  |
| 9/1/22  | \$9.18  |
| 10/3/22 | \$9.59  |
| 11/1/22 | \$10.67 |
| 12/2/22 | \$12.47 |
| 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  |

# 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

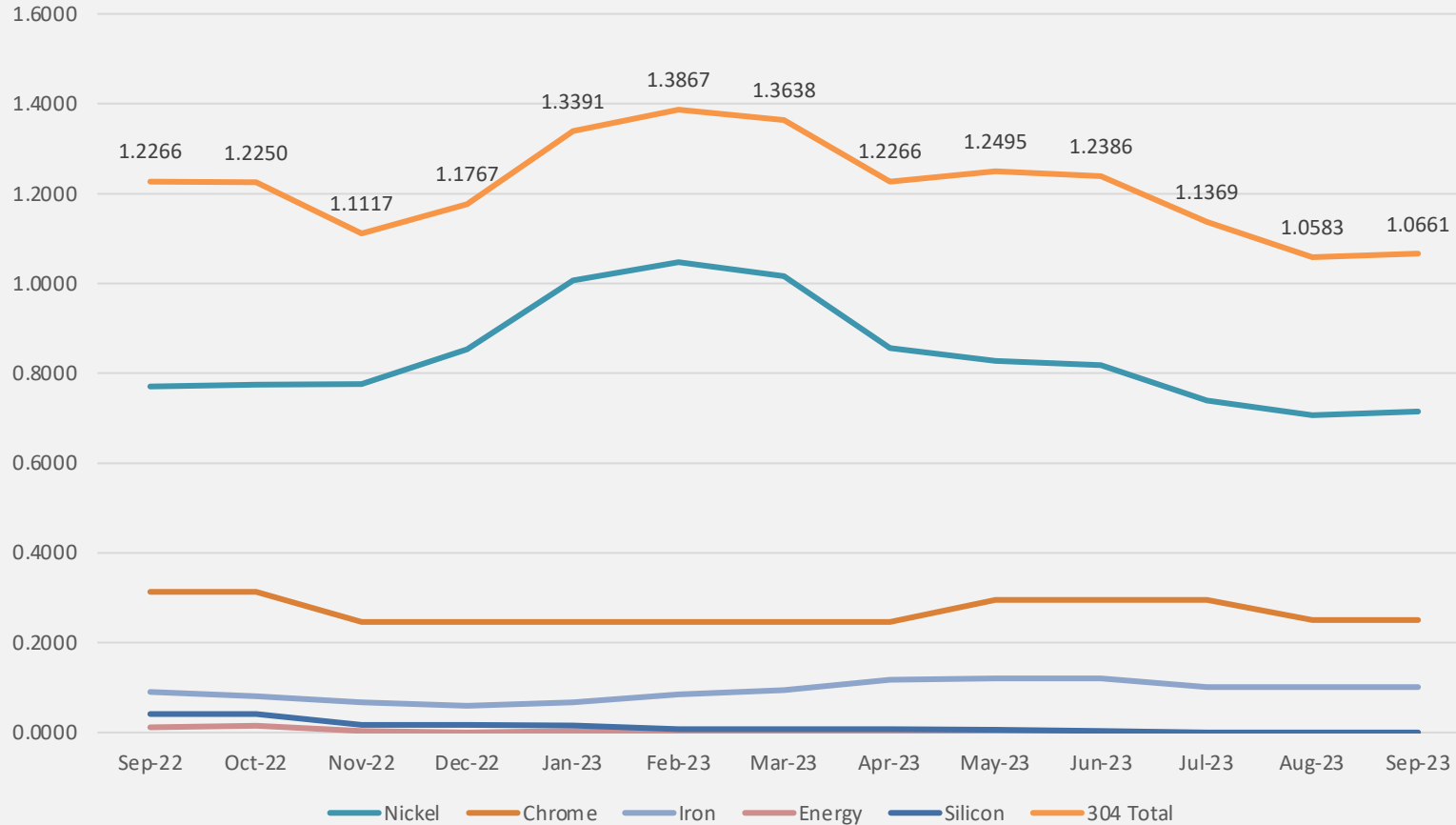


**PENN STAINLESS PRODUCTS, INC.**



# RAW MATERIAL SURCHARGES (304/304L)

304/304L Surcharges



| Grade | Current Surcharge |
|-------|-------------------|
| 304   | \$1.0661          |

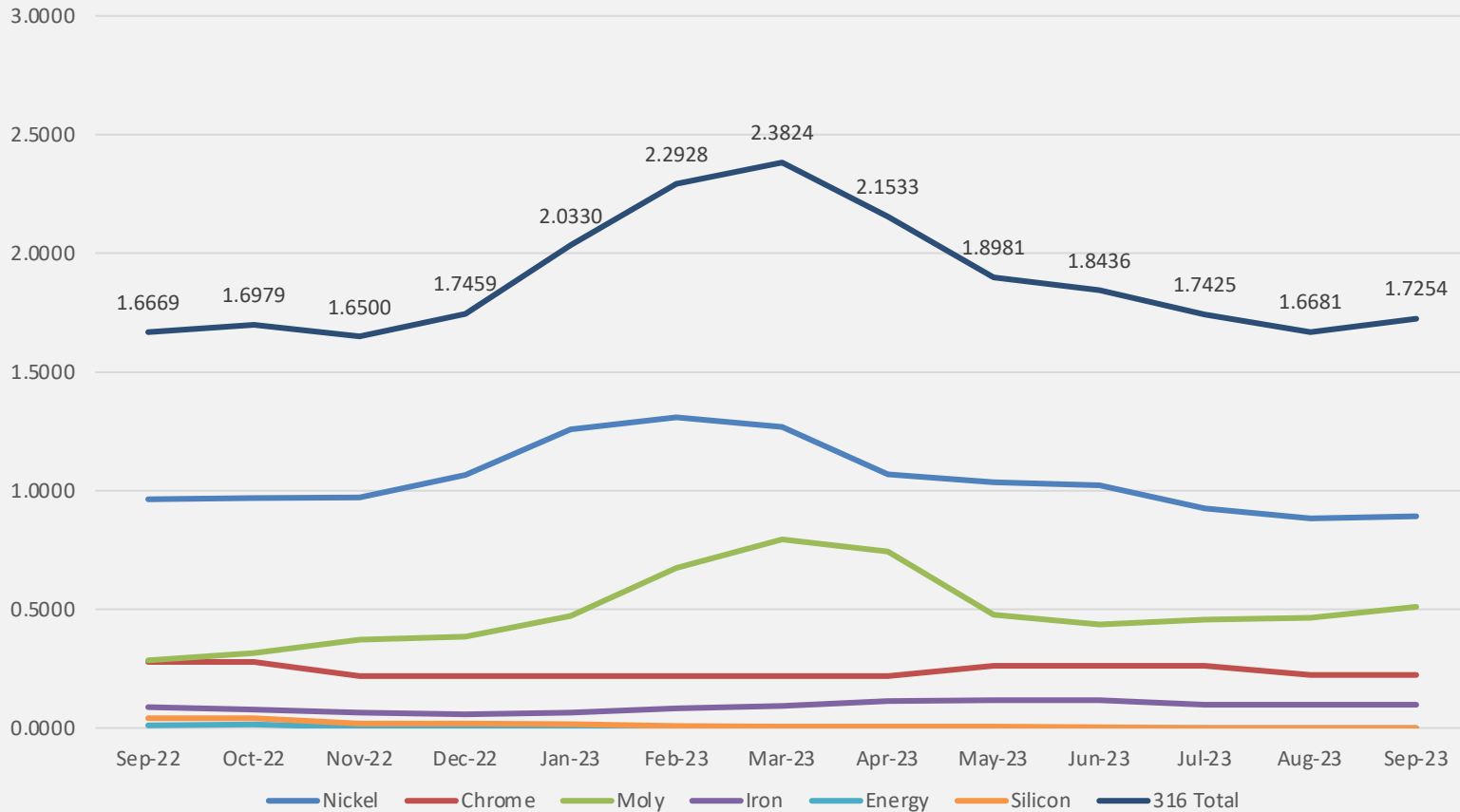
| Date Range     | 304 Surcharge Change |
|----------------|----------------------|
| Since Jan 2023 | -20.4%               |
| Last 12 months | -13.1%               |

*Note – Surcharges are for flat-rolled product.*



# RAW MATERIAL SURCHARGES (316/316L)

316/316L Surcharges



| Grade | Current Surcharge |
|-------|-------------------|
| 316   | \$1.7254          |

| Date Range     | 316 Surcharge Change |
|----------------|----------------------|
| Since Jan 2023 | -15.1%               |
| Last 12 months | -3.5%                |

*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 • 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

### 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  
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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<br>-0.015              | +0.008<br>-0.008              | +0.010<br>-0.010 | —                | —                | —                | —                |
| over 1 to 2    | +0.031<br>-0.031              | +0.012<br>-0.012              | +0.015<br>-0.015 | +0.031<br>-0.031 | —                | —                | —                |
| over 2 to 4    | +0.062<br>-0.062              | +0.015<br>-0.015              | +0.020<br>-0.020 | +0.031<br>-0.031 | +0.062<br>-0.062 | —                | —                |
| over 4 to 6    | +0.093<br>-0.093              | +0.015<br>-0.015              | +0.020<br>-0.020 | +0.031<br>-0.031 | +0.062<br>-0.062 | +0.093<br>-0.093 | —                |
| over 6 to 8    | +0.125<br>-0.125              | +0.016<br>-0.016              | +0.025<br>-0.025 | +0.031<br>-0.031 | +0.062<br>-0.062 | +0.093<br>-0.093 | +0.125<br>-0.125 |
| over 8 to 10   | +0.156<br>-0.156              | +0.020<br>-0.020              | +0.031<br>-0.031 | +0.031<br>-0.031 | +0.062<br>-0.062 | +0.093<br>-0.093 | +0.125<br>-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  | —   | ±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   |
| 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 <sup>1</sup> , 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 | —      |
| >0.250 to 0.3125                       | -0.010, +0.022   | -0.010, +0.022 | —      |
| >0.3125                                | -0.010, +0.030   | -0.010, +0.030 | —      |

<sup>1</sup>Thickness 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   |

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

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

<sup>3</sup> 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.

<sup>4</sup> 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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PENN STAINLESS PRODUCTS, INC.





**THANK YOU.**

