

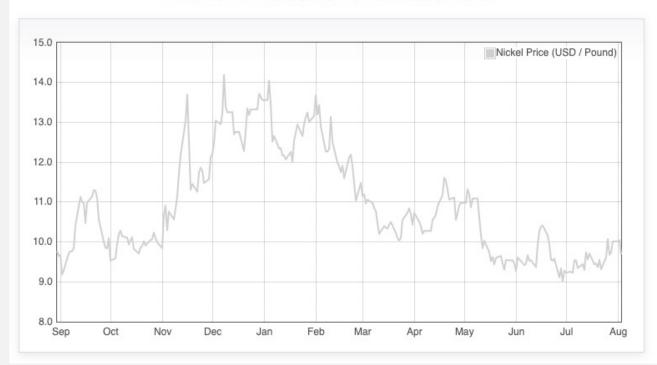
# PENN STAINLESS PRODUCTS, INC.

STAINLESS PRICING UPDATE AUGUST 1, 2023



## **NICKEL**

#### Nickel Prices for the Last Year



Date	USD/lb.
7/1/22	\$9.87
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



### **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



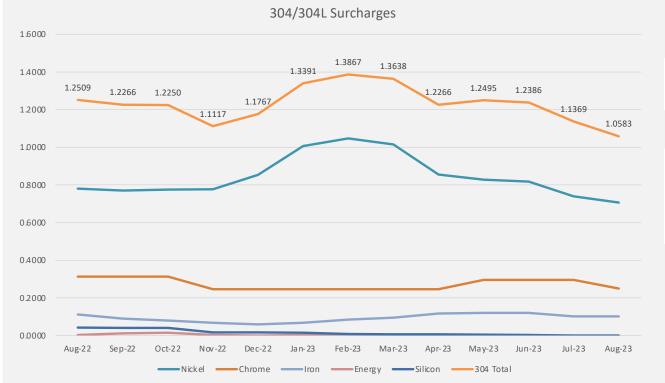
### **MOLYBDENUM**







## **RAW MATERIAL SURCHARGES (304/304L)**



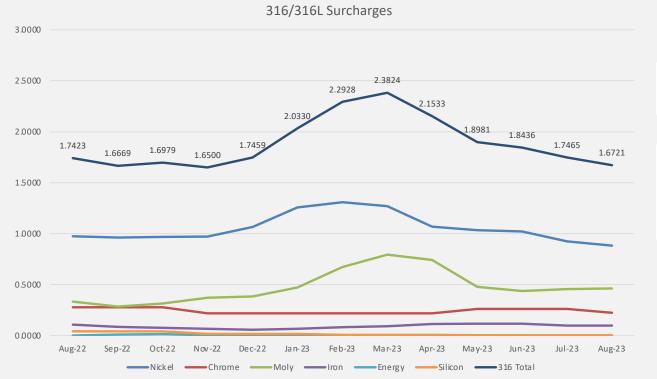
Grade	Current Surcharge
304	\$1.1369

Date Range	304 Surcharge Change
Since Jan 2023	-21.0%
Last 12 months	-15.4%

Note – Surcharges are for flat-rolled product.



## RAW MATERIAL SURCHARGES (316/316L)



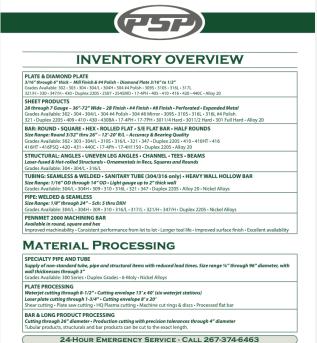
Grade	Current Surcharge
316	\$1.7465

Date Range	316 Surcharge Change
Since Jan 2023	-17.8%
Last 12 months	-4.0%

Note – Surcharges are for flat-rolled product.



#### **LINE CARD**



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

F Tolera	inces				Plu		Minus	Permitted Variations in Thicks	ness for Co	id-Holled, Narroi	w, Coll-Processe	a Produc
1/8"	to	5/16*	(ex	cclusive)	0.00	11	0.001	Coils and Cut Lengths				
5/16	' to	1/2"	(ex	cclusive)	0.00	15	0.0015		Thick	mess Tolerance		
1/2"	to	1"	(ex	colusive)	0.00	12	0.002			Widths Given,		r, in.
1"	to	1-1/2		cclusive)	0.00		0.0025	Specified Thickness, in.			h (w), in.	
1-1/2	* to	4*	(in	clusive)	0.00	13	0.003		<b>E</b> 4			< w ≤84
IF Tolera	inces				Plu		Minus				s Tolerances	
Over 2	2" to	2-1/2	(in	clusive)	1/3	2	0.000	Over 0.012 to 0.015, incl.	0.00			-
Over 2-	1/2" to	3-1/2"	(in	clusive)	3/6	4	0.000	Over 0.016 to 0.020, incl.	0.00			-
Over 3-	1/2" to	4-1/2"	(in	clusive)	1/1	6	0.000	Over 0.020 to 0.024, incl.	0.0		002	-
4-1/4	* to	5-1/2"	(in	clusive)	5/6	4	0.000	Over 0.025 to 0.032, incl.	0.0			-
5-1/2		6-1/2"	(in	clusive)	1/6		0.000	Over 0.033 to 0.040, incl.	0.00		025	0.003
6-1/2		8*		clusive)	5/3		0.000	Over 0.041 to 0.047, incl.	0.0			0.003
8*	to	12"		clusive)	3/1		0.000	Over 0.048 to 0.059, incl.	0.0			0.004
12"	to	15"		clusive)	7/3		0.000	Over 0.060 to 0.079, incl.	0.0			0.0045
15*	to	25*	(in	clusive)	1/4		0.000	Over 0.099 to 0.118, incl.	0.0			0.006
TAINI	ESS HO	TEINIG	HED E	ATCE	OLLE	DAGE	BAD	Over 0.119 to 0.157, incl.	0.0			0.007
	STM A4			LAISI	OLLL	D A3 L	JAK.	Over 0.158 to 0.197, incl. Over 0.198 to 0.236, incl.	0.0			0.0075
			Thick	ness Tole	ance in I	nches		Over 0.198 to 0.236, incl.			009	0.009
Width	Width		over	over	over	over	over		-			
inches)	Tolerance	1/8 - 1/2	1/2 - 1	1-2	2-4	4-6	6-8	Note 1 — Thickness measur product, except or				
o 1 (incl)	+0.015	+0.008	+0.010		=	=		taken at least 1/8 i Note 2 — The tolerances in	in, from the	product edge.		
over	+0.031	+0.012	+0.015	+0.031	_			HOT ROLLED SHEE	T/C	DED AS	TM A 490	
1 to 2	-0.031	-0.012	-0.015	-0.031		_						
over 2 to 4	+0.062	+0.015	+0.020	+0.031	+0.062	=		Specified Thickness*, in.	Indicate	Variation, in., O d Otherwise, for	r Specified Wid	th (w) in.
over	+0.093	+0.015	+0.020	+0.031	+0.062	+0.093				/ ≤ 60	w>	
4 to 6	+0.125	-0.015	-0.020	-0.031	-0.031	-0.062		>0.1875 to 0.250		0. +0.020	-0.010, +0.020	
6 to 8	-0.156	+0.016	+0.025	+0.031	+0.062	+0.093	+0.125	>0.250 to 0.3125		0, +0.022	-0.010, 4	
6 to 8 over	+0.156	+0.016	+0.025	+0.031	+0.062	+0.093	+0.125		-0.01	0, +0.030	-0.010, +	-0.030
6 to 8 over 8 to 10	+0.156 +0.156 -0.187	+0.016 +0.020 -0.020	+0.025 +0.031 -0.031	+0.031 +0.031 -0.031	+0.062 +0.031	+0.093 -0.062	+0.156 +0.125 -0.156	>0.250 to 0.3125 >0.3125	-0.01 re taken at	0, +0.030 least 3/8 in. from	-0.010, + -0.010, + the edge of the	-0.030
over 8 to 10	-0.156 +0.156 -0.187	+0.016 +0.020 -0.020	+0.025 +0.031 -0.031	-0.031 +0.031 -0.031	+0.062 +0.031 STANI	+0.093 -0.062	+0.156 +0.125 -0.156	>0.250 to 0.3125  >0.3125  *Thickness measurements as  PLATE THICKNESS  Tolerance below apply to the	-0.01 re taken at PER A following al	0, +0.030 least 3/8 in. from STM A48 lovs: 300 Series	-0.010, + -0.010, + the edge of the  O and 400 Series	sheet.
over 8 to 10	+0.156 +0.156 -0.187	+0.016 +0.020 -0.020	+0.025 +0.031 -0.031	-0.031 +0.031 -0.031 ELDED	+0.031 +0.062 -0.031 STANI	+0.062 +0.093 -0.062	+0.156 +0.125 -0.156 PIPE	>0.250 to 0.3125  >0.3125  *Thickness measurements as  PLATE THICKNESS  Tolerance below apply to the 17-4, Duptex Grade. Tolerance	-0.01 re taken at S PER A following al tes listed w	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series are taken from A	-0.010, + -0.010, + the edge of the  O and 400 Series STM A480 (Refe	sheet. Stainless,
over 8 to 10 TAINL PER AS	-0.156 +0.156 -0.187 LESS SEA STM A3	-0.016 +0.020 -0.020 AMLES	+0.025 +0.031 -0.031 6 & WE 999 /	+0.031 +0.031 -0.031 ELDED A 1 0 1 Outside	+0.031 +0.062 -0.031 STANI	-0.062 +0.093 -0.062 DARD I	-0.156 +0.125 -0.156 PIPE	>0.250 to 0.3125  >0.3125  *Thickness measurements as  PLATE THICKNESS  Tolerance below apply to the	-0.01 re taken at S PER A following al tes listed w	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series cre taken from A Rolled Mill Plate (	-0.010, + -0.010, + -0.010 et the edge of the  O and 400 Series STM A480 (Refe (Quarto Plate)*,	sheet. Stainless,
over 8 to 10 TAINL PER AS	-0.156 +0.156 -0.187	-0.016 +0.020 -0.020 AMLES	+0.025 +0.031 -0.031 6 & WE 999 /	+0.031 +0.031 -0.031 ELDED A 1 0 1 Outside I	+0.031 +0.062 -0.031 STANI 5	-0.062 +0.093 -0.062 DARD I	-0.156 +0.125 -0.156 PIPE	>0.250 to 0.3125 >0.3125 *Thickness measurements as PLATE THICKNESS Tolerance below apply to the 17-4, Duplex Grade. Toleranc Permitted Variation in Thickne	-0.01 re taken at S PER A following at res listed weess of Hot-F	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere taken from A Rolled Mill Plate (	-0.010, + -0.010	sheet. Stainless, wence On
over 8 to 10 TAINL PER AS	0.156 +0.156 -0.187 ESS SEA STM A3	+0.016 +0.020 -0.020 AMLES	+0.025 +0.031 -0.031 5 & WE 999 /	-0.031 +0.031 -0.031 ELDED A 1 0 1 Outside I 2 Seamles	-0.031 -0.062 -0.031 STANI STANI Siameter 9	-0.062 +0.093 -0.062 DARD I Toleranc A312 W	-0.156 +0.125 -0.156 PIPE es /elded Minus	>0.250 to 0.3125  >0.3125  *Thickness measurements as  PLATE THICKNESS  Tolerance below apply to the 17-4, Duptex Grade. Tolerance	-0.01 re taken at 6 PER A following at ces listed weess of Hot-F	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series are taken from A Rolled Mill Plate ( Wildt) 84 <ws120< td=""><td>-0.010, + -0.01</td><td>sheet. Stainless, wance On</td></ws120<>	-0.010, + -0.01	sheet. Stainless, wance On
over 8 to 10 TAINL PER AS Nomice	0.156 +0.156 -0.187 ESS SE/ STM A3	-0.016 +0.020 -0.020 -0.020 AMLESS 12 / A	-0.025 +0.031 -0.031 5 & WE 999 / A31 Plus	-0.031 +0.031 -0.031 ELDED A 1 0 1 Outside I 2 Seamles Min	+0.031 +0.062 -0.031 STANE Siameter	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus	-0.156 +0.125 -0.156 PIPE es felded Minus .031	>0.250 to 0.3125  >0.3125  >0.3125  PLATE THICKNESS Tolerance below apply to the 17-4. Duplex Grader. Tolerance Permitted Variation in Thickness Specified Thickness (I), in	-0.01 re taken af S PER A following al ces listed we ess of Hot-F	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere taken from A: Rolled Mill Plate ( Width 84 < w ≤ 120 erance Over Sp	-0.010, + -0.01	sheet. Stainless, wance On
6 to 8 over 8 to 10 STAINL PER AS Nomin	-0.156 +0.155 -0.187 ESS SE/ STM A3	-0.016 +0.020 -0.020 AMLES 12 / A Inches	-0.025 +0.031 -0.031 5 & WE 999 / A31 Plus .015	-0.031 +0.031 -0.031 ELDED A 1 0 10 Outside I 2 Seamles Min	-0.031 +0.062 -0.031 STANE Siameter s	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015	-0.156 +0.125 -0.156 PIPE es felded Minus .031	>0.250 to 0.3125  >0.3125  Thickness measurements as  PLATE THICKNESS Tolerance below apply to the 17-4, Duplex Grade. Tolerance Permitted Variation in Thickness (t), in t < 3/16	-0.01 re taken af S PER A following al ces listed we ess of Hot-F  w ≤ 84 Tol 0.055	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere taken from A Rolled Mil Plate ( Wildt) 84 < w ≤ 120 erance Over Sp 0.070	-0.010, + -0.010, + a the edge of the  Onand 400 Series STM A480 (Refs (Quarto Plate)*, h (w), in. 120< w ≤ 144 ecified Thickne	sheet. Stainless, wance On
0 to 8 over 8 to 10 TAINL ER A: Nomin 1/8 F >1-1/ >4	-0.156 +0.155 -0.187 STM A3 STM A3 PP S to 1-1/2 IP 72 IPS to 4 IP IPS to 8 IPS	-0.018 +0.020 -0.020 -0.020 AMLESS 12 / A Inches S incl.	-0.025 +0.031 -0.031 5 & WE 999 / A311 Plus -0.05 -0.031	0.031 +0.031 -0.031 ELDED A 1010 Outside I 2 Seamles Min	-0.031 +0.062 -0.031 STANE 5 Olameter 9	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031	>0.250 to 0.3125  >0.3125  *Thickness measurements as PLATE THICKNESS Tolerance below goply to the Thi-Chyd Cyber (Mode Telerance Permitted Variation in Thickness (I), in \$\$ \$pecified Thickness (I), in \$\$ \$4.316\$  \$16.51<	-0.01 re taken at s PER A following al ces listed w- ess of Hot-f  W = 84  Tol  0.055  0.045	0, +0.030 least 3/8 in. from STM A 48 loys: 300 Series ere taken from A: Rolled Mil Plate ( Mild! 84 < w ± 120 erance Over Sp 0.070 0.050	-0.010, + -0.010, + the edge of the  O and 400 Series STM A480 (Refe (Quarte Plate)*, h (w), in. 120-w ≤ 144 edified Thickne	sheet. Stainless. wence On  w>14
0 to 8 over 8 to 10 TAINL ER AS Nomin	-0.156 +0.158 -0.187 STM A3 STM A3 ST	-0.016 +0.020 -0.020  AMLESS 12 / A Inches PS incl. Incl. Incl. Incl.	-0.025 +0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.032	-0.031 +0.031 -0.031 -0.031 ELDED A 1 0 1 Outside I 2 Seamler Min .00	-0.031 +0.062 -0.031 STANE 5 Diameter 9 us	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .062	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031 .031	>0.250 to 0.3125 >0.3155 *Thickness measurements as a personal processor of the personal process	-0.01 re taken at  S PER A  following at  rest listed wees of Hot-F  W   4 Tol  0.055  0.045	0, +0.030 least 3/8 in. from STM A 48 loys: 300 Series ere taken from A: Rolled Mil Plate ( Mildt) 84 < w ± 120 erance Over Sp 0.070 0.060	-0.010, 4 -0.01	sheet. Stainless. wance On  ""  w>14  sss, in.  - 0.090
0 to 8 over 8 to 10  STAINLE PER AS Nomin 1/8 IF >1-1/ >4 >8 to 10	-0.156 +0.156 -0.187 LESS SE/STM A3 MI Pipe Sizo PS to 1-1/2 IP 1/2 IPS to 4 IP IPS to 8 IPS IPS to 18 IPS Wall Tolerano	-0.016 +0.020 -0.020 AMLESS 12 / A Inches PS incl. Incl. S incl. es	-0.025 +0.031 -0.031 S & WE 999 / A314 Plus -015 -062 -083 By Wi	-0.031 +0.031 -0.031 -0.031 ELDED A 1011 Outside I 2 Seamles -0.03 Min -0.03 -0.03	-0.031 +0.062 -0.031 STANES Diameter	-0.062 +0.093 -0.062 DARD Toleranc A312 W Plus -015 -031 -062 -093 By Wt.	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031 .031 12.5%	>0.200 to 0.3125  *Thickness measurements at PLATE THICKNESS Toterance below spep to the 17-6, buylex Grade. Toterance Permitted Variation in Thickness (t), in 14-3716  **Specified Thickness (t), in 376 ± 1 < 376  **376 ± 1 < 374  376 ± 1 < 374  376 ± 1 < 374  376 ± 1 < 374  376 ± 1 < 374	-0.01 re taken at S PER A following all res listed weess of Hot-F  W = 64  Tol  0.055  0.045  0.055	0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere taken from Rolled Mill Plate ( Width 84 < w = 120 erance Over Sp 0.070 0.050 0.060 0.065	-0.010, 4 -0.010	-0.030 sheet. Stainless. wence On  w>14 ess, in.  - 0.090 0.100
0 to 8 over 8 to 10  STAINLE PER AS Nomin 1/8 IF >1-1/ >4 >8 to 10	-0.156 +0.158 -0.187 STM A3 STM A3 ST	-0.016 +0.020 -0.020 AMLESS 12 / A Inches PS incl. Incl. S incl. es	-0.025 +0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.032	-0.031 +0.031 -0.031 -0.031 ELDED A 1011 Outside I 2 Seamles -0.03 Min -0.03 -0.03	-0.031 +0.062 -0.031 STANES Diameter	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .062	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031 .031	>0.250 to 0.3125  **Thickness measurements are measurements for the power of the transfer of transfer of the t	-0.01 re taken at S PER A following all res listed w ess of Hot-F  0.055 0.045 0.065 0.060 0.070	0, +0.030 least 3/8 in. from LSTM A48 loys: 300 Series rer taken from Width  84 <ws120 0.060="" 0.065="" 0.070="" 0.075<="" over="" serance="" sp="" td=""><td>-0.010, 4 -0.010, 1 -0.010</td><td>-0.030 sheet. Stainless. wance On  w&gt;14 ess, in.  - 0.090 0.100 0.115</td></ws120>	-0.010, 4 -0.010, 1 -0.010	-0.030 sheet. Stainless. wance On  w>14 ess, in.  - 0.090 0.100 0.115
0 to 8 over 8 to 10 STAINLE PER AS Nomina 1/8 F >1-1/ >8 to 10 V	-0.156 +0.155 -0.187 -0	-0.016 +0.020 -0.020 -0.020  AMLESS 12 / A Inches PS incl. Incl. incl. incl. es ces	-0.025 +0.031 -0.031 5 & WE 999 / A311 Plus -0.015 -0.031 -0.062 -0.093 By WI	-0.031 +0.031 -0.031 ELDED A1010 Outside I 2 Seamles Min .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	-0.031 +0.062 -0.031 STANES Diameter	-0.062 +0.093 -0.062 DARD Toleranc A312 W Plus -015 -031 -062 -093 By Wt.	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031 .031 12.5%	>0.250 to 0.3125  *Thickness reneasurements as PLATE THICKNESS Tolerance below steply to the 17-4, Duplex Grade. Tolerance to the 17-4, Duplex Grade. Tolerance to 17-4, Duplex Grade. Tolerance of 18-18-18-18-18-18-18-18-18-18-18-18-18-1	-0.01 re taken at S PER A following al res listed w ress of Hot-F	0, +0.030 lineat 3/8 in. from LSTM A48 loys: 300 Series rer taken from Widu 84 <w 0.060="" 0.066="" 0.070="" 0.075="" 0.150<="" 120="" =="" over="" sp="" srance="" td=""><td>-0.010, 4 -0.010, 1 -0.010</td><td>-0.030 Stainless. W&gt;14- Stainless. W=14- Stainless. 0.090 0.100 0.115 0.200</td></w>	-0.010, 4 -0.010, 1 -0.010	-0.030 Stainless. W>14- Stainless. W=14- Stainless. 0.090 0.100 0.115 0.200
0 to 8 over 8 to 10  STAINL PER AS Nomin 1/8 F >1-1/ >8 I  W  STAINL	-0.156 +0.156 +0.187 -0.187 ESS SE/STM A3  PIP Size PS to 1-1/2 IP PS to 4 IP IPS to 8 IPS IPS to 18 IPS Wall Tolerance eight Tolerance ESS SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/S	-0.016 +0.020 -0.020 AMLESS 12 / A Inches PS incl. Incl. Sincl. es ces	-0.025 +0.031 -0.031 5 & WE 999 / A311 Plun -0.05 -0.031 -0.062 -0.093 By Wr 10.0%	-0.031 +0.031 -0.031 -0.031 ELDED A 1010 Outside I 2 Seamles	+0.031 +0.062 -0.031 STANIE S Districtor 11 11 11 11 11 15 8	-0.062 +0.093 -0.062 DARD Toleranc A312 W Plus -015 -031 -062 -093 By Wt.	-0.156 +0.125 -0.156 PIPE es felded Minus .031 .031 .031 12.5%	> 0.250 to 0.3125  **Thickness measurements as PLATE THICKNESS Tolerates below opply to the 17-4. Depter Grade. Tolerates below to 17-4. Depter Grade. Tolerates below to 17-4. Depter Grade. Tolerates depter Grade. Tolerate	-0.01 re taken at S PER A following at res listed wees of Hot-F	0. +0.030 least 3/8 in. from STTM A 48 loys: 300 Series re taken from A: Noted Mil Plate Well  44 < w ≤ 120 erance Over Sp  0.070  0.060  0.065  0.075  0.150  0.160	-0.010, 1 -0.010, 0 -0.010	-0.030 Stainless, wence On  w>14
Over 8 to 10  TAINL PER AS  Nomin  1/8 F >1-1/ >4  >8 III  W  TAINL  TAINL  TAINL  TAINL	-0.156 +0.156 -0.187 -0	-0.016 +0.020 -0.020 -0.020  AMLESS 12 / A  Inches PS incl.	-0.025 +0.031 -0.031 5 & WE 999 / 	-0.031 +0.031 -0.031  ELDED A101 Outside I 2 Seamler	-0.031 +0.062 -0.031 STANE S Diameter s us is is is is is is is is is is is is is	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus -015 -031 -052 -093 -9y Wt.	-0.156 +0.125 -0.156 PIPE *** *** *** *** *** *** *** *** *** *	>0.020 to 0.3125  \$0.3125  **Thickness measurements of the state of th	-0.01 re taken at 5 PER A following at real listed wees of Hot-F 0.055 0.045 0.065 0.060 0.070 0.125 0.150 0.180	0, +0.030 least 3/8 in. from A-48 loys: 300 Series ere taken from A-4 Rolled Mill Plate ( Midt) 84 < w 120 44 aranco Over 59 0.050 0.060 0.060 0.065 0.075 0.150 0.160 0.200	-0.010, 4 -0.010, 10 -	-0.030 sheet. Stainless. wance Cn
Over 8 to 10  TAINL PER AS  Nomin  1/8 F >1-1/ >4  >8 III  W  TAINL  TAINL  TAINL  TAINL	-0.156 +0.156 +0.187 -0.187 ESS SE/STM A3  PIP Size PS to 1-1/2 IP PS to 4 IP IPS to 8 IPS IPS to 18 IPS Wall Tolerance eight Tolerance ESS SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/SE/S	-0.016 +0.020 -0.020 AMLESS 112 / A Inches PS incl.	-0.025 +0.031 -0.031 5 & WE 999 / 	-0.031 +0.031 -0.031  ELDED A1010 Outside 1 2 Seamles	-0.031 +0.062 -0.031 STANE S Diameter s us iii	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus -015 -031 -052 -093 -9y Wt.	-0.156 +0.125 -0.156 PIPE es (olded Minus .031 .031 .031 .031 .031 .35%	9-150 to 3155 3-93156 3-93156 **Thickness measurements as PLATE THICKNESS Transmiss depth of the Thickness poly to the Transmiss developed to 17	-0.01 re taken at  S PER A  following al  recess listed was  rest listed was  0.045 0.045 0.060 0.070 0.125 0.150 0.180 0.235	0, +0.030 in. from the state of the state o	-0.010, -0.010, 0.010,	v>14- stainless. wence Cn  v>14- ses, in.  0.090 0.100 0.115 0.200 0.225 0.355 0.435
Over 8 to 10  TAINL PER AS  Nomin  1/8 F >1-1/ >4  >8 III  W  TAINL  TAINL  TAINL  TAINL	-0.156 +0.156 +0.157 +0.187 -0.187 STM A3  PS to 1-1/2 IPS to 4 IPS to 8 IPS IPS to 18 IPS	-0.016 +0.020 -0.020 AMLESS 112 / A Inches PS incl.	-0.025 +0.031 -0.031 5 & WE 999 / A311 P(to .015 .062 .083 By Wr 10.09 6 & WE	-0.031 +0.031 -0.031 -0.031 ELDED Outside I 2 Seamles Min .00 .00 .00 .00 L 12.1 12.5 13.5 LDED DA Outside I Company L Company	-0.031 +0.062 -0.031 STANE S Diameter s us iii	-0.082 +0.093 -0.062 DARD Toleranc A312 W Plus -0.015 -0.031 -0.052 -0.093 -0.095 -0.005 -0	-0.156 +0.125 -0.156 PIPE es reided Minus .031 .031 .031 .031 12.5% 3.5%	>0.020 to 0.3125  \$0.3125  **Thickness measurements of the state of th	-0.01 re taken at 5 PER A following at real listed wees of Hot-F 0.055 0.045 0.065 0.060 0.070 0.125 0.150 0.180	0, +0.030 least 3/8 in. from A-48 loys: 300 Series ere taken from A-4 Rolled Mill Plate ( Midt) 84 < w 120 44 aranco Over 59 0.050 0.060 0.060 0.065 0.075 0.150 0.160 0.200	-0.010, 4 -0.010, 10 -	-0.030 sheet. Stainless. wance Cn
0 to 8	-0.156 +0.156 +0.156 +0.167 -0.167  LESS SE/STM A3 and Pipe Size PS to 1-1/2 IPS to 4 IPP 12 IPS to 4 IPS 15 IPS to 5 IPS 16	-0.016 +0.020 -0.020 -0.020 AMLESS 112 / A Inches PS incl. i	-0.025 +0.031 -0.031 5 & WE 999 /  A31: Plus -0.05 -0.031 -0.062 -0.093 By WI 10.095 6 & WE R AST	-0.031 +0.031 -0.031 -0.031 ELDED A1010 Outside 12 Seamler	-0.031 +0.062 -0.031 STANE S Diameter s us iii	-0.082 +0.093 -0.062 DARD Toleranc A312 W Plus .015 .0031 .0082 .093 .093 .0095 .009	-0.156 +0.125 -0.156 PIPE es reided Minus .031 .031 .031 .031 12.5% 3.5%	9-250 to 3.155  3-9.3129  **Thickness necessreement or PLATE THICKNESS Triements below agely to the Condens Service of the Condens Servic	-0.01 re taken at  \$ PER A following at  recess listed was  ease of Hot-Fe  0.055 0.045 0.055 0.060 0.070 0.125 0.150 0.180 0.235 0.315 ong the long	0, +0,030 liseat 38 in, from 1.  STM A48 loys: 300 Series re taken from A:  Watb  4 < ₩ ≤ 120  0.050  0.050  0.050  0.150  0.150  0.200  0.255  0.255  0.255	-0.010, 1 -0.010, 0 -0.010, 0 ond 400 Series STM A480 (Fide) Outline STM A480 (Fide) -120<-w s 144 -0.085 -0.085 -0.095 -0.095 -0.200 -0.335 -0.335 -0.335 -0.435	v>14.  Stainless, wence Cn  v>14.  ses, in.  - 0.090 0.100 0.115 0.200 0.225 0.355 0.435
8 to 8 over 8 to 10  STAINL PER AS Nomin 1/8 F >1-1/ >4 >8 I  W  STAINL STAND. Group 1	-0.156 +0.156 +0.187 -0.187 -0.187 STM A3  The properties of the p	-0.016 +0.020 -0.020 AMLESS 12 / A Inches PS incl. Si incl.	-0.025 +0.031 -0.031 5 & WE 999 /  A31: Plus -0.15 -0.03 -0.03 -0.05 -0.03 -0.05	-0.031 +0.031 -0.031 -0.031 ELDED A 1011 001 -0.031	-0.031 +0.062 -0.031 STANE S Diameter s us iii iii	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .082 .093 .093 .005 .093 .005 .005 .005 .005 .005 .005 .005 .00	-0.156 +0.125 +0.186 PIPE	9-210 to 0.1155 1-9-0.110	-0.01 re taken at  \$ PER A following at  recess listed was of Hot-Fe  w \$ 84   Tol  0.055   0.045   0.065   0.060   0.070   0.125   0.180   0.235   0.315   0.	0, +0.030 least 38 in. from STM A48 loys: 300 Series from 1.  Noted from 1.  Width 4 < w 120 0.050 0.050 0.055 0.150 0.150 0.200 0.205 0.235 0.335 jbludraal edges of 5.	-0.0100.010. 0.  The adge of the O and 400 Series of the O and 50	0.030 sheet. Stainless. wonce Chi  w>14- ess, in.  - 0.090 0.105 0.200 0.225 0.355 0.435 0.550 if 3/8 in.
6 to 8 over 8 to 10  STAINL PER AS  Nomin  1.6 F >1-1/2  W  W  STAINL STAINL STAINL STORP  1 2 1 3 1 3 1	-0.156 40.156 -0.187 -0.187 -0.187 STM A3 and Pipe Size PS to 1-1/2 IP 2 IPS to 4 IP IPS to 8 IPS IPS to 8 IPS Wall Tolerance eight Tolerance ESS SEA ARD TUB Size, Outsil Diameter, I Up to 1/2 IZ to 1-1/2; I-1/2 to 3-1/2.	-0.016 +0.020 -0.020 -0.020 AMLES 112 / A Inches PS Incl. In	-0.025 +0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.05 -0.031 -0.05 -0.031 -0.05 -0.031 -0.05 -0	-0.031 +0.031 -0	-0.031 +0.062 -0.031 STANE S Diameter s us iii iii	-0.062 +0.093 -0.062 CARD Toleranc A312 W Plus .015 .031 .082 .093 3y Wt. 10.0% missible V wall Thick	-0.156 +0.125 +0.186 PIPE		-0.01 re taken at  \$ PER A following at  recess listed was of Hot-Fe  w \$ 84   Tol  0.055   0.045   0.065   0.060   0.070   0.125   0.180   0.235   0.315   0.	0, +0.030 least 38 in. from STM A48 loys: 300 Series from 1.  Noted from 1.  Width 4 < w 120 0.050 0.050 0.055 0.150 0.150 0.200 0.205 0.235 0.335 jbludraal edges of 5.	-0.0100.010. 0.  The adge of the O and 400 Series of the O and 50	0.030 sheet. Stainless. wonce Chi  w>14- ess, in.  - 0.090 0.105 0.200 0.225 0.355 0.435 0.550 if 3/8 in.
6 to 8	-0.156 +0.156 +0.187 -0.187 -0.187 STM A3  The properties of the p	-0.016 +0.020 -0.020 -0.020 AMLESS 112 / A Inches PS incl. PS incl	-0.025 +0.031 -0.031 5 & WE 999 /  A31: Plus -0.15 -0.03 -0.03 -0.05 -0.03 -0.05	-0.031 +0.031 -0.031 -0.031  ELDED Min -0.03 -0.	-0.031 +0.062 -0.031 STANE S Diameter s us iii iii	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .082 .093 .093 .005 .093 .005 .005 .005 .005 .005 .005 .005 .00	-0.156 +0.125 -0.156 PIPE +8 (olded Minus .031 .031 .031 .031 .031 .031 .031 .031 .031	9-210 to 3 155 1-30 310 1-30 10 10 10 10 1-30 10 10 10 1-30 10 10 10 1-30 10 10 10 1-30 10 10 10 1-30 10 10 10 1-30 10 10 10 1-30 10	-0.01 re taken at S PER A following at receil listed we see of Hot-F C C C C C C C C C C C C C C C C C C C	0, +0,030  STM A48  Lyss: 300 Series 8  Lyss: 300 Series 8  Mod Missel 38 in from 18  Mod Missel	-0.010. • 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	0.030 sheet. Stainless, wence Chr.  w>14- ses, in.  0.090 0.115 0.200 0.225 0.355 0.550 ir 3/8 in., seed thicknesses on fill
6 to 8	-0.156 +0.157 +0.167 +0.167 -0.167 -0.167 -0.167 -0.167 -0.167 -0.167 -0.166 -0	-0.016 +0.020 -0.020 -0.020 AMLESS 112 / A Inches PS incl. PS incl. Es incl	-0.025 +0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.042 -0	-0.031 +0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.03 -0.0	-0.031 +0.062 -0.031 STANE S Diameter s us iii iii	-0.062 -0.082 -0.082 -0.082 -0.082 -0.082 -0.082 -0.083 -0.082 -0.093 -0.095 -0.093 -0.095 -0	-0.156 +0.125 -0.156 +0.125 -0.156 PIPE es **elded Minus .031 .031 .031 12.5% 3.5%  *Arfattons kness,%		-0.01 re taken at S PER A following at receil listed we see of Hot-F C C C C C C C C C C C C C C C C C C C	0, +0,030  STM A48  Lyss: 300 Series 8  Lyss: 300 Series 8  Mod Missel 38 in from 18  Mod Missel	-0.010. • 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0.010. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	0.030 sheet. Stainless, wence Chr.  w>14- ses, in.  0.090 0.115 0.200 0.225 0.355 0.550 ir 3/8 in., seed thicknesses on fill

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THANK YOU.

