

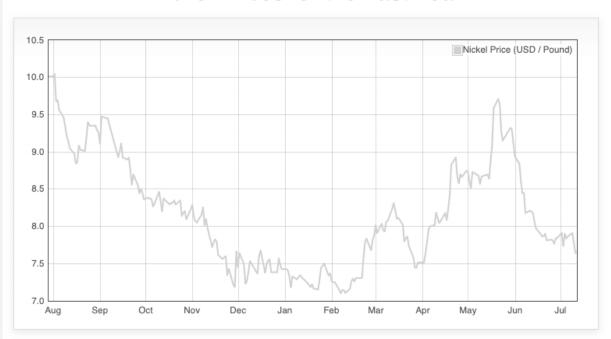
# PENN STAINLESS PRODUCTS, INC.

# STAINLESS PRICING UPDATE JULY 2024



## **NICKEL**





Date	USD/lb.
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
4/1/24	\$7.52
5/1/24	\$8.60
6/3/24	\$8.84
7/1/24	\$7.91



## **CHROME**

#### Chrome \$/Ib



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)**





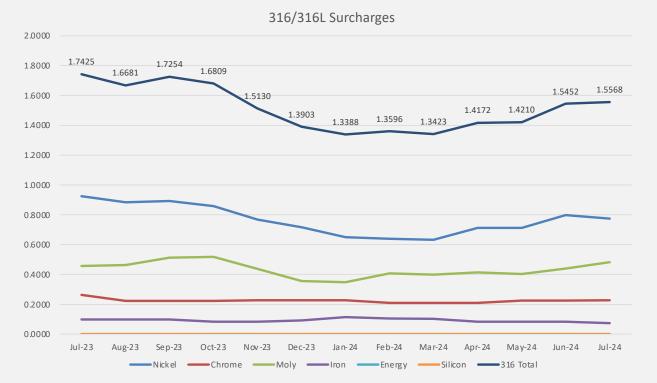
Grade	Current Surcharge
304	\$0.9499

Date Range	304 Surcharge Change
Since Jan 2024	+6.4%
Last 12 months	-16.4%

Note – Surcharges are for flat-rolled product.



# RAW MATERIAL SURCHARGES (316/316L)



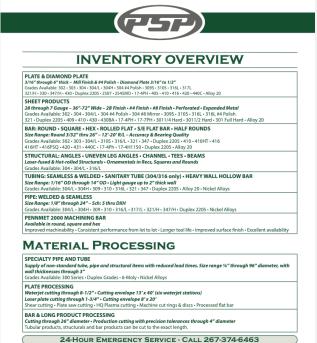
Grade	Current Surcharge
316	\$1.5568

Date Range	316 Surcharge Change
Since Jan 2024	+16.3%
Last 12 months	-10.7%

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-Rolled, Narro	w, Coll-Processe	a Produc
1/8"	to	5/16*	(0)	clusive)	0.00	1	0.001	Coils and Cut Lengths				
5/16	' to	1/2"	(63	clusive)	0.00	15	0.0015		Thick	mess Tolerance		
1/2"	to	1"	(e)	clusive)	0.00	2	0.002			Widths Given,		r, in.
1"	to	1-1/2		clusive)	0.00		0.0025	Specified Thickness, in.			h (w), in.	
1-1/2	* to	4*	(in	clusive)	0.00	3	0.003		<b>54</b>			< 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	1	0.000	Over 0.016 to 0.020, incl.	0.00			-
Over 3-	1/2" to	4-1/2"	(in	clusive)	1/1	3	0.000	Over 0.020 to 0.024, incl.	0.0		002	-
4-1/4	* to	5-1/2"	(in	clusive)	5/6	1	0.000	Over 0.025 to 0.032, incl.	0.0			-
5-1/2		6-1/2"	(in	clusive)	1/8		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	UED E	ATCE	OLLE	DAG E	BAD	Over 0.119 to 0.157, incl.	0.0			0.007
	STM A4			LAISI	OLLL	J AJ 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.	0.0		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	- / -	DED A	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., C d Otherwise, fo	r Specified Wid	th (w) in.
over	+0.093	+0.015	+0.020	+0.031	+0.062	+0.093		>0.1875 to 0.250		1 ≤ 60	w>	
4 to 6	-0.062	-0.015	-0.020	-0.031	-0.031	-0.062				0. +0.020	-0.010. +	
over 6 to 8	+0.125	+0.016	+0.025	+0.031	+0.062	+0.093	+0.125	>0.250 to 0.3125	-0.01	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 -0.01	0, +0.022 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	+0.062 +0.093 -0.062	+0.156 +0.125 -0.156	>0.250 to 0.3125 >0.3125	-0.01 -0.01 re taken at	0, +0.022 0, +0.030 least 3/8 in. fron	-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	+0.062 +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 -0.01 re taken at PER A following al	0, +0.022 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 LDED A 101	+0.062 +0.031 STANE	+0.062 +0.093 -0.062	+0.156 +0.125 -0.156 PIPE	>0.250 to 0.3125  >0.3125  *Thickness measurements at  PLATE THICKNESS  Tolerance below apply to the 17-4, Duplex Grade. Tolerance	-0.01 -0.01 re taken at PER A following at es listed w	0, +0.022 0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere 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	+0.062 +0.062 -0.031 STANE	-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 -0.01 re taken at PER A following at es listed w	0, +0.022 0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere 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	+0.062 -0.031 STANE	-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. Tolerance  Permitted Variation in Thickness	-0.01 -0.01 re taken at is PER A following at es listed we ress of Hot-F	0, +0.022 0, +0.030 least 3/8 in. from STM A48 loys: 300 Series ere taken from A Rolled Mill Plate i	-0.010, + -0.010	sheet. Stainless, wence Onl
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 101 Outside Seamles	+0.031 +0.062 -0.031 STANI	-0.062 +0.093 -0.062 DARD I	-0.156 +0.125 -0.156 PIPE es /elded Minus	>0.250 to 0.3125  >0.3125  *Thickness measurements at  PLATE THICKNESS  Tolerance below apply to the 17-4, Duplex Grade. Tolerance	-0.01 -0.01 re taken at is PER A following at less listed we see of Hot-F	0, +0.022 0, +0.030 linast 3/8 in. from ASTM A48 loys: 300 Series ere taken from A Rolled Mill Plate Width 84 < w ≤ 120	-0.010, + -0.01	sheet. Stainless, wence 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 /	+0.031 +0.031 -0.031 ELDED A 1 0 1 Outside Seamles Min	-0.031 +0.062 -0.031 STANE	-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  >0.3126  >0.3126  PLATE THICKNESS Tolerance below apply to the 17-4. Duplex Grader. Tolerance Permitted Variation in Thickness Specified Thickness (t), in	-0.01 -0.01 re taken at is PER A following at es listed we ses of Hot-F	0. +0.022 0. +0.030 least 3/8 in. fron STM A48 loys: 300 Series ere taken from A Rolled Mill Plate Widt 84 < w ≤ 120 erance Over Sp	-0.010, + -0.01	sheet. Stainless, wence 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 1 Outside I Seamles Min	0.031 +0.062 -0.031 STANE Siameter	-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  >0.3125  PLATE THICKNESS Telerance below apply to the 17-4. Duplex Grade. Telerance Permitted Variation in Thickness Specified Thickness (I), in t < 3/16	-0.01 -0.01 re taken at is PER A following at es listed where of Hot-F	0, +0.022 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, wence 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 / A31 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 Stameter	-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 apply to the Tri-4, Dupker Glober G	-0.01 -0.01 re taken at is PER A following at os listed wees of Hot-R  W = 64 Tol. 0.055	0, +0.022 0, +0.030 least 3/8 in. fron STM A48 loys: 300 Series are taken from A Rolled Mill Plate Widt 84 < w ≤ 120 erance Over Sp 0.070 0.060	-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 M Pip Size PS to 1-1/2 IP 12 IPS to 4 IP IPS to 8 IPS IPS to 18 IPS	-0.016 +0.020 -0.020  AMLESS 12 / A Inches PS incl. Incl. Incl. Incl.	-0.025 +0.031 -0.031 5 & WE 999 / A31 Plus -0.031 -0.031	-0.031 +0.031 -0.031 -0.031 ELDED A 1 0 1 1 Outside I 2 Seamles Min .00	-0.031 +0.062 -0.031 STANE Siameter	-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	>0.200 to 0.3125  **JOSES** **Thickness measurements as a second of the control o	-0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.05 -0.05 -0.05	0, +0.022 0, +0.030 ioust 3/8 in. from LSTM A48 loys: 3.00 Series rer taken from A Rolled Mill Plate Wildt 84 < W ± 120 0.070 0.050 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 DI PIP 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 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031	-0.031 +0.031 -0.031 -0.031 ELDED A 1 0 1 1 Outside I 2 Seamles Min .03 .03 .03 .03 .03 .03	-0.031 +0.062 -0.031 STANES lameter	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .052 .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 as PLATE THICKNESS** Criteriance below apply to the 17-4, Duplex Cirade. Tolerance Televinon in Thickness (t), in 1-2, 216  **Specified Thickness (t), in 2-3, 216  **Specified Thickness (t), in 346 st < 34  346 st < 34  346 st < 34  346 st < 314	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.05 -0.060	0, +0.022 0, +0.030 least 3/8 in. from SSTM A 48 loys: 300 Series ere taken from A Rolled Mil Plate: Wild! 84 < w ≤ 120 erance Over Sp 0.070 0.060 0.066	-0.010, 4 -0.010	-0.030 sheet. Stainless, wence Oni  w>144 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 5 & WE 999 / A31 Plus -0.031 -0.031	-0.031 +0.031 -0.031 -0.031 ELDED A 1 0 1 1 Outside I 2 Seamles Min .03 .03 .03 .03 .03 .03	-0.031 +0.062 -0.031 STANES lameter	-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	>0.200 to 0.3125  **Thickness measurements as a measurements of the translation of translation of the translation of translation of the translatio	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.005 -0.005 -0.000 -0.070	0, +0.022 0, +0.030 least 3/8 in. from STM A48 loys: 300 Series cre taken from A Rolled Mill Plate Widt  84 <w 0.050="" 0.060="" 0.065="" 0.070="" 0.075<="" 120="" =="" erance="" over="" sp="" td=""><td>-0.010, 4 -0.010, 1 -0.010</td><td>-0.030 - sheet. Stainless, wence Chi</td></w>	-0.010, 4 -0.010, 1 -0.010	-0.030 - sheet. Stainless, wence Chi
0 to 8 over 8 to 10 STAINL PER AS Nomin	-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 / A31 Plus -0.05 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031 -0.031	-0.031 +0.031 -0.031 -0.031 A 1 0 10 Cutside 1 2 Seamles Min 	-0.031 +0.062 -0.031 STANES lameter	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .052 .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 as PLATE THICKNESS** Tolerance below apply to the 17-4, Duplex Cirolan. Tolerance 17-4. Duplex Cirolan. Tolerance 17-4. Duplex Cirolan. Tolerance 17-4. Duplex Cirolan. Thickness (0), in 1-4.315  316.s.1 < 3.34 3.34.s.1 < 3.34 3.44.s.1 < 3.41 16.1 < 2.2 2.8.1 < 3.2 2.8.1 < 3.2 3.34.5 3.35.5 3.35.7 3.36.7 3.37	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.005 -0.005 -0.006 -0.070 -0.125	0. +0.022 0. +0.030 least 3/8 in. from STM A48 loys: 300 Series are taken from A Rolled Mill Plate Widt 84 <w≤120 0.050="" 0.060="" 0.065="" 0.075="" 0.150<="" 44700="" 50="" over="" td=""><td>-0.010, 4 -0.010, 1 -0.010</td><td>-0.030 -sheet. Stainless, wence Chi</td></w≤120>	-0.010, 4 -0.010, 1 -0.010	-0.030 -sheet. Stainless, wence Chi
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 / A31 Plus -0.03 -0.03 -0.03 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09	-0.031 +0.031 -0.031 ELDED A 1010 Outside C Seamles Min .00 .00 .00 .00 .12.1 .3.5	+0.082 +0.082 +0.031 STANIE ST	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .052 .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 as **PLATE THICKNESS** Thickness measurements as **PLATE THICKNESS** Thickness measurements as **PLATE THICKNESS** Thickness (0, in 1 < 3.16	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.00 -0.005 -0.005 -0.005 -0.005 -0.000 -0.000 -0.125 -0.150	0, +0.022 0, +0.002 0, +0.002 0, +0.003 in. from STM A48	-0.010, 1 -0.010, 0 -0.010	0.030 sheet. Stainless, wance Chi ** ** ** ** ** ** ** ** ** ** ** ** **
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 / A31 Plu- .015 .031 .062 .093 By W 10.05	-0.031 +0.031 -0.031 ELDED A 1010 Outside C Seamles  Min .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	+0.082 +0.082 +0.031 STANIE ST	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus -015 -031 -052 -093 -0,0%	-0.156 +0.125 -0.156 PIPE *** *** *** *** *** *** *** *** *** *	0.0250 to 0.3125	-0.01 -0.01	0, +0.022 0, +0.002 0, +0.003 inest 3/8 in. from STM A48 loys: 300 Series ere taken from A coled from A c	-0.010, 4 -0.010, 10 -	0.030 sheet. Stainless, wance Chi  W>144 see, in.  - 0.090 0.100 0.205 0.355
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 / A31 Plu- .015 .031 .062 .093 By W 10.05	-0.031 +0.031 -0.031 -0.031  ELDED A 1010 Outside Min	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus -015 -031 -052 -093 -0,0%	-0.156 +0.125 -0.156 PIPE es (olded Minus .031 .031 .031 .031 .031 .35%	9-250 to 3152  3-3155  *Thickness measurements at PLATE THICKNESS  Thickness below to gold to the Thickness to gold to the Thickness to gold to the Thickness (of the Thickness (of the 14-316  376 to 1-33  376 to 1-33  376 to 1-34  377 to 1	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.05 -0.065 -0.060 -0.70 -0.125 -0.180 -0.235	0, +0.022 0, +0.030 0, +0.030 0, +0.030 STM A48 loys: 300 Series ere taken from A48 loys: 300 Series ere taken from A48 loys: 400 Series ere taken from A48  Widt  4 < ≤ 120 0.070 0.060 0.065 0.065 0.150 0.150 0.150 0.200	-0.010, -0.010, 0.010,	v>14/ses, in 0.090 0.100 0.115 0.205 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 / A31 Plue -0.15 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03	-0.031 -0.031 -0.031 -0.031 ELDED A 1010 Outside I Seamles Min -0.00 -0.	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus -015 -031 -062 -093 by Wt. 0.0%	-0.156 +0.125 -0.156 PIPE es reided Minus .031 .031 .031 .031 12.5% 3.5%	0.0250 to 0.3125	-0.01 -0.01	0, +0.022 0, +0.002 0, +0.003 inest 3/8 in. from STM A48 loys: 300 Series ere taken from A coled from A c	-0.010, 4 -0.010, 10 -	0.030 sheet. Stainless, wance Chi  W>144 see, in.  - 0.090 0.100 0.205 0.355
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 10 8 IPS IPS to 8 IPS Wall Tolerano LESS SE/ARD TUB Size, Outsil Diameter, I	-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 -0.15 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03	-0.031 -0	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.082 +0.093 -0.062 DARD Toleranc A312 W Plus .015 .031 .082 .093 by Wt. 0.0%	-0.156 +0.125 -0.156 PIPE es reided Minus .031 .031 .031 .031 12.5% 3.5%	9-250 to 3.152  3-0.3129  **Thickness necessarements or PLATE THICKNESS Triserance below agely to the Condens Service of the Condens Serv	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.000 -0.125 -0.150 -0.180 -0.315 -0	0. +0.022 0. +0.032 0. +0.030 0. +0.030 In from the state of the stat	-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/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 -0.015 -0.031 -0.05 -0.093 -0	-0.031 +0.031 -0.031 -0.031  ELDED A 1011 Outside 12 Seamler Min .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 -0.062 OARD I Toleranc A312 W Plus .015 .031 .062 .093 by Wt. 0.0%	-0.156 +0.125 +0.186 PIPE	9-200 to 3152 1-303100 to 3152 1-30310	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.05	0. +0.022 0. +0.030 0. +0.	-0.0100.010. 0.  The adge of the O and 400 Series of the O and 50	w>14/ ************************************
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 -0.031 -0.05 -0.031 -0.05 -0.05 -0.00 -0.00 -0.00 -0.00 -0.00	-0.031 -0.031 -0.031 -0.031 -0.031  ELDED A 1010 -0.031 -0	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 -0.062 DARD I Toleranc A312 W Plus .015 .031 .002 .093 by Wt. 0.0%	-0.156 +0.125 +0.186 PIPE	DESIGN GO 3158  190338  190338  17 Distriction recommended to the second	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.05	0. +0.022 0. +0.030 0. +0.	-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 ir 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 -0.015 -0.031 -0.05 -0.093 -0	-0.031 +0.031 -0.031 -0.031  CLDED A101 Outside I Seamles  Min .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	-0.031 +0.062 -0.031 STANE Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 -0.062 OARD I Toleranc A312 W Plus .015 .031 .062 .093 by Wt. 0.0%	-0.156 +0.125 -0.156 PIPE +8 (olded Minus .031 .031 .031 .031 .031 .031 .031 .031 .031	9-210 to 3 125 1-30 310 to 3 125 1-30 31 51 1	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.045 -0.055 -0.060 -0.070 -0.125 -0.150 -0.150 -0.150 -0.315 -0.	0. +0.022 0. +0.030 0. +0.030 0. +0.030 STM A48 STM A4	-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 over 8 to 10 STAINL PER AS Nomin 1/8 F >11-11 >4 >8 to 10  STAINL F  Nomin 1/8 F  24  35  4  4  31 4 31 4 33 11 4 34 34 34 34 34 34 34 34 34 34 34 34 3	-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	-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 Silameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.062 +0.093 +0.062 +0.093 +0.062 +0.062 +0.093 +0.062 +0	-0.156 +0.125 -0.156 +0.125 -0.156 PIPE es **elded Minus .031 .031 .031 12.5% 3.5%  *Arfattons kness,%	DESIGN GO 3158  190338  190338  17 Distriction recommended to the second	-0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.045 -0.055 -0.060 -0.070 -0.125 -0.150 -0.150 -0.150 -0.315 -0.	0. +0.022 0. +0.030 0. +0.030 0. +0.030 STM A48 STM A4	-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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