



PRECISE
Steel Middle East FZE



**Stock Holder
Exporter & Trader**

Stainless Steel

Seamless / Welded - Pipes and Tubes,
Coils, Strips, Sheets and Decorative Products

About Us

Precise Steel Middle East FZE, a well renowned global trader, stock holder and exporter of stainless steel products, customized in; (seamless / welded – pipes and tubes, coils / Sheets - HR and CR). Founded in 2016, by a highly experienced, techno - commercial individual, who has extensive experience and senior roles in procurement, supply chain management and manufacturing operations of stainless steel products. Precise Steel Middle East's strong relationships with many and major manufacturers of stainless steel products, are one of the many aspects of the company's success, growth and transformation.





Welded Pipe – Stainless Steel

Outer dia-size: 13.72 mm ~ 508 mm
 Thickness: 0.70 mm ~ 12.7 mm
 Length: Up to 12 Meter, Regular production order lengths are 6.0 / 6.1 Meter
 Specification: ASTM A 312, A778, A554, A358 CI-1, A358 CI-3
 Type: EFW, ERW
 Shape: Round, Square and Rectangular
 Pipe End: Plain, Bevelled
 Grades: 201, 202, 304, 304H, 304L, 316, 316L, 321, 316Ti



Welded Tube – Stainless Steel

Outer dia-size: 9.5 mm ~ 102 mm
 Thickness: 0.70 mm ~ 5 mm
 Length: Up to 12 Meter, Regular production order lengths are 6.0 / 6.1 Meter
 Specification: ASTM A 213, A269, A249, A554
 Finish: Aesthetic, Mirror, Mechanical Polished
 Shape: Round
 Pipe End: Plain
 Grades: 201, 202, 304, 304H, 304L, 316, 316L, 321, 316Ti



Seamless Pipe – Stainless Steel

Outer dia-size: 13.72 mm ~ 219.08 mm
 Thickness: 1 mm ~ 8.18 mm
 Length: Up to 12 Meter
 Specification: ASTM A 312, A 376, A 789, EN 10216-5
 Type: Annealed and Pickled Line Pipe, Boiler Pipes
 Pipe End: Plain, Bevelled
 Grades: 304, 304L, 304H, 316, 316L, 310/S, 321/H, 316Ti, 347/H, 31803, 32205
 Special specification and grades are also available on requirement.



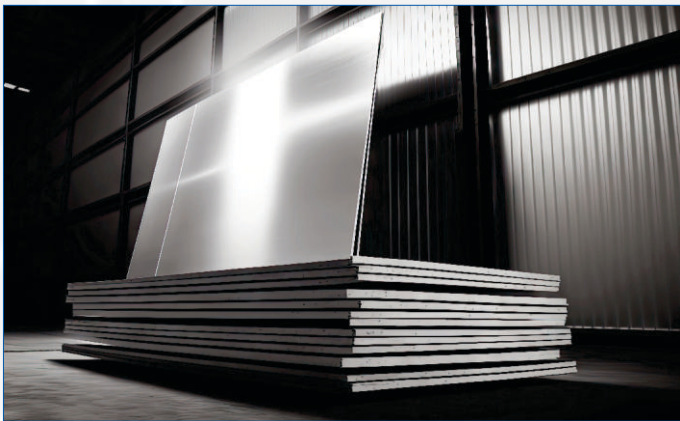
Seamless Tube – Stainless Steel

Outer dia-size: 8 mm ~ 102 mm
 Thickness: 0.90 mm ~ 5 mm
 Length: Up to 18 Meter
 Specification: ASTM A213, A269, A 789, EN 10216-5
 Type: Annealed and Pickled Straight Tubes, Boiler Tube, Heat Exchanger Tubes, Hydraulic and Instrumentation Tube
 Pipe End: Plain
 Grades: 304, 304L, 304H, 316, 316L, 310/S, 321/H, 316Ti, 347/H, 31803, 32205
 Special specification and grades are also available on requirement.



Coil & Strips Stainless Steel

Standard:	ASTM, ASME
Grade:	201, 202, 304, 304L, 310, 316L, 321, 409, 410, 430, 32205 Duplex
Size:	150 mm to 2000 mm
Thickness:	0.5 mm – 15 mm
Type:	Coils, Baby Coils & Strip Coils
Finish:	Hot Rolled (HR) – No. 1, Cold Rolled (CR) – 2B, 2D, BA, 8K, 6K, No. 4, SATIN



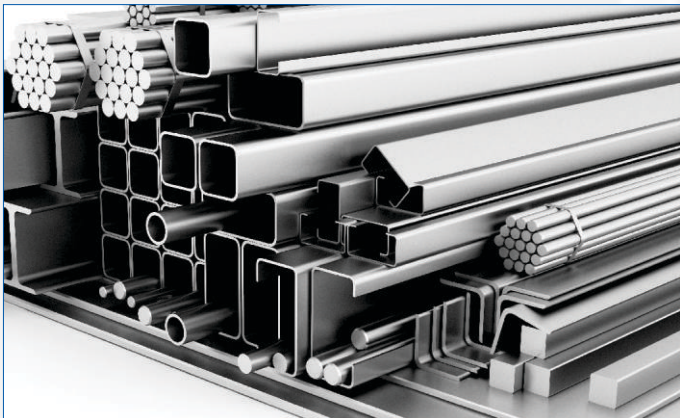
Sheet & Plates Stainless Steel

Standard:	ASTM, ASME
Grade:	201, 202, 304, 304L, 310, 316L, 321, 409, 410, 430, 32205 Duplex
Width:	150 mm To 2000 mm
Length:	1000 mm to 5000 mm
Thickness:	0.5 mm – 20 mm
Type:	Plain Sheet, Perforated Sheet, Chequered Plate.
Finish:	Hot Rolled (HR) – No. 1, Cold Rolled (CR) – 2B, 2D, BA, 8K, 6K, No. 4, SATIN



Color sheet – Stainless Steel

Thickness:	0.40 mm ~ 3 mm
Length:	4 feet to 8 feet or Customised
Type:	Mirror, Color, Pattern, Tiles, Etching, Chequered, Embossed, Hairline, Textured, 3D-Art
Finish :	Polish, No. 4 Mat, 6k, 8k Mirror Scotch Brite, Bright annealed with P.E. film
Grades:	201, 304, 316 Special specification and grades are also available on requirement.



Decorative – Stainless Steel

OD:	9.53 mm to 127 mm (Round), 10X10 to 100X100 mm (Section)
Thickness:	0.7 mm to 3 mm
Length:	Up to 6.1 Meter
Specification:	ASTM A 554, A 269, A 270
Finish:	2B, 1. Satin and Mirror Polish finish (600 grit, 400 grit, 280 grit), Perforated, Color Tube
Shape:	Round, Square, Rectangular, Customized Shaped (U, Slot, Oval, Embossed, Handrail Oval)
Grades:	201, 304, 316L
Application:	Decoration, Railing, Curtain Rod, Furniture, Structure, Section

PIPE DIMENSIONS

NSP	Outside Diameter		Nominal Wall Thickness							
Designator	in	mm	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S	
			in	mm	in	mm	in	mm	in	mm
1/8	0.41	10.29	...	...	0.049	1.24	0.068	1.73	0.095	2.41
1/4	0.54	13.72	...	...	0.065	1.65	0.088	2.24	0.119	3.02
3/8	0.68	17.15	...	..	0.065	1.65	0.091	2.31	0.126	3.2
1/2	0.84	21.34	0.065	1.65	0.083	2.11	0.109	2.77	0.147	3.73
3/4	4.05	26.67	0.065	1.65	0.083	2.11	0.113	2.87	0.154	3.91
1	1.32	33.4	0.065	1.65	0.109	2.77	0.133	3.38	0.179	4.55
1 1/4	1.66	42.16	0.065	1.65	0.109	2.77	0.14	3.56	0.191	4.85
1 1/2	1.90	48.26	0.065	1.65	0.109	2.77	0.145	3.68	0.2	5.08
2	2.38	60.33	0.065	1.65	0.109	2.77	0.154	3.91	0.218	5.54
2 1/2	2.88	73.03	0.083	2.11	0.12	3.05	0.203	5.16	0.276	7.01
3	3.50	88.9	0.083	2.11	0.12	3.05	0.1216	5.49	0.3	7.62
3 1/2	4.00	101.6	0.083	2.11	0.12	3.05	0.226	5.74	0.318	8.08
4	4.50	114.3	0.083	2.11	0.12	3.05	0.237	6.02	0.337	8.56
5	5.56	141.3	0.10*9	2.77	0.134	3.4	0.258	6.55	0.375	9.52
6	6.63	168.28	0.10*9	2.77	0.134	3.4	0.28	7.11	0.432	10.97
8	8.63	219.08	0.109	2.77	0.148	3.76	0.322	8.18	0.5	12.7
10	10.75	273.05	0.134	3.4	0.165	4.19	0.365	9.27	0.5	12.7
12	12.75	323.85	0.156	3.96	0.18	4.57	0.375	9.52	0.5	12.7
14	14.00	355.6	0.156	3.96	0.188	4.78				
16	16.00	406.4	0.165	4.19	0.188	4.78				
18	18.00	457.2	0.165	4.19	0.188	4.78				
20	20.00	508	0.188	4.78	0.188	4.78				
22	22.00	558.8	0.188	4.78	0.218	5.54				
24	24.00	609.6	0.218	5.54	0.25	6.35				
30	30.00	762	0.25	6.35	0.312	7.92				

CHEMICAL COMPOSITION

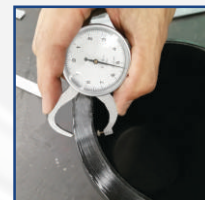
GRADES	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	iT	Nb	N
TP304	S3040	0.08	2	0.045	0.03	1	18.0-20.0	8.0-11.0				
TP304L	S30403	0.035	2	0.045	0.03	1	18.0-20.0	8.0-13.0				
TP304H	S30409	0.04-0.10	2	0.045	0.03	1	18.0-20.0	8.0-11.0				
TP304N	S30451	0.08	2	0.045	0.03	1	18.0-20.0	8.0-18.0				0.10-0.16
TP304LN	S30453	0.035	2	0.045	0.03	1	18.0-20.0	8.0-12.0				0.10-0.16
TP309S	S30908	0.08	2	0.045	0.03	1	22.0-24.0	12.0-15.0	0.75			
TP309H	S30909	0.04-0.10	2	0.045	0.03	1	22.0-24.0	12.0-15.0				
TP309CB	S30940	0.08	2	0.045	0.03	1	22.0-24.0	12.0-16.0	0.75		10xC min	
											1.10 max	
TP309HCB	S30941	0.04-0.10	2	0.045	0.03	1	22.0-24.0	12.0-16.0	0.75		10xC min	
											1.10 max	
TP310S	S3108	0.08	2	0.045	0.03	1	24.0-26.0	19.0-22.0	0.75			
TP310H	S3109	0.04-0.10	2	0.045	0.03	1	24.0-26.0	19.0-22.0				
TP310CB	S31040	0.08	2	0.045	0.03	1	24.0-26.0	19.0-22.0	0.75		10xC min	
											1.10 max	
TP310HCB	S31041	0.04-0.10	2	0.045	0.03	1	24.0-26.0	19.0-22.0	0.75		10xC min	
											1.10 max	
TP316	S3160	0.08	2	0.045	0.03	1	16.0-18.0	11.0-14.0	2.0-3.0			
TP316L	S31603	0.035	2	0.045	0.03	1	16.0-18.0	10.0-14.0	2.0-3.0			
TP316H	S31609	0.04-0.10	2	0.045	0.03	1	16.0-18.0	11.0-14.0	2.0-3.0			
TP316TI	S31635	0.08	2	0.045	0.03	1	16.0-18.0	10.0-14.0	2.0-3.0	5X (C-N) -0.7		0.1
TP316N	S31651	0.08	2	0.045	0.03	1	16.0-18.0	10.0-14.0	2.0-3.0			0.10-0.16
TP316LN	S31653	0.035	2	0.045	0.03	1	16.0-18.0	11.0-14.0	2.0-3.0			0.10-0.16
TP317	S3170	0.08	2	0.045	0.03	1	18.0-20.0	10.0-14.0	3.0-4.0			
TP317L	S31703	0.035	2	0.045	0.03	1	18.0-20.0	11.0-15.0	3.0-4.0			
TP321	S3210	0.08	2	0.045	0.03	1	17.0-19.0	9.0-12.0				0.1
TP321H	S32109	0.04-0.10	2	0.045	0.03	1	17.0-19.0	9.0-12.0				0.1
TP347	S3470	0.08	2	0.045	0.03	1	17.0-19.0	9.0-13.0				
TP347H	S34709	0.04-0.10	2	0.045	0.03	1	17.0-19.0	9.0-13.0				
TP347LN	S34751	0.05-0.02	2	0.045	0.03	1	17.0-19.0	9.0-13.0			0.20-	0.06-0.10
											50	
32205	32205	0.03	2.0	0.03	0.02	1	22-23	4.5-6.5	3.0-3.5			0.14-0.20
32750	32750	0.03	1.2	0.35	0.02	1	24-26	6.0-8.0	3.0-5.0			0.24-0.32

MECHANICAL COMPOSITION

MATERIAL	Heat	Temperature	Tensile Strength	Yield Strength	Elongation %, Min
	Treatment	Min.	Ksi (Mpa), Min.	Ksi (Mpa), Min.	
		° F(° C)			
TP304	Solution	1900 (1040)	75(515)	30(205)	35
TP304L	Solution	1900 (1040)	70(485)	25(170)	35
TP304H	Solution	1900 (1040)	75(515)	30(205)	35
TP310S	Solution	1900 (1040)	75(515)	30(205)	35
TP316	Solution	1900 (1040)	75(515)	30(205)	35
TP316L	Solution	1900 (1040)	70(485)	25(170)	35
TP316H	Solution	1900 (1040)	75(515)	30(205)	35
TP316TI	Solution	1900 (1040)	75(515)	30(205)	35
TP321	Solution	1900 (1040)	75(515)	30(205)	35
TP321H	Solution	Cold: 2000(1100)	75(515)	30(205)	35
		Hot: 1925(1050)			
TP347	Solution	1900(1040)	75(515)	30(205)	35
TP347H	Solution	Cold: 2000(1100)	75(515)	30(205)	35
		Hot: 1925(1050)			



PROCESS, TESTING & INSPECTION FACILITIES AT OUR MANUFACTURER'S



PIPE & TUBE DIMENSION TOLERANCE

Highlights of ASTM Specification for Stainless Steel Tubes & Pipes

Specifications	Specified Outside Diameter in (MM)	Permitted Variations in Outside Diameter		Permitted Variations in Wall Thickness		Permitted Variations in Length		Testing
		Permitted Variations in (MM)		Wall Thickness		Cut Length in (MM)		
		Over	Under	Over	Under	Over	Under	
Specifications ASTM A-213 Seamless Ferritic and Austenitic Alloy, Steel Boiler, Superheater, and Heat- Exchanger Tubes	Under 1 [25.4]	0.004 [0.10]	0.004 [0.10]	20	0	0.125 [3]	0	• Tension Test • Flattering Test • Flare Test • Hardness Test • 100% Hydrostatic or Eddy current or Ultrasonic Test
	1 to 1.5 [25.4 to 38.1],inch	0.006 [0.15]	0.006 [0.15]	20	0	0.125 [3]	0	
	Over 1.5 to 2 [38.1 to 50.8],excl	0.008 [0.20]	0.008 [0.20]	22	0	0.125 [3]	0	
	2 to 2.5 [50.8to 63.5],excl	0.010[0.25]	0.010[0.25]	22	0	0.188 [5]	0	
	2.5 to 3 [63.5 to 76.2],excl	0.12 [0.30]	0.12 [0.30]	22	0	0.188 [5]	0	
	3 to 4 [76.2 to 101.6]inch	0.015 [0.38]	0.015 [0.38]	22	0	0.188 [5]	0	
	Over 4 to 7.5 [101.6 to 190.5], inch	0.015 [0.38]	0.015 [0.38]	22	0	0.188 [5]	0	
	Over 7.5 to 9 [190.5 to 228.6], inch	0.015 [0.38]	0.025 [0.64]	22	0	0.188 [5]	0	
ASTM A-269 Seamless Austenitic Stainless Steel Tubing for General Service	Up to 0.5[12.7]	0.005 [0.18]	0.045 [1.14]	15	15	0.125 [3.2]	0	• Flare Test (Seamless Only) • Hardness Test • 100% Hydrostatic or Eddy current or Ultrasonic Test
	0.5 to 1.5 [12.7 to 38.1], excl.	0.005 [0.13]	0.005 [0.13]	10	10	0.125 [3.2]	0	
	1.5 to 3.5 [38.1 to 88.9], excl.	0.010 [0.25]	0.005 [0.13]	10	10	0.188 [4.8]	0	
	3.5 to 5.5 [88.9 to 139.7],excl.	0.015 [0.38]	0.010 [0.25]	10	10	0.188 [4.8]	0	
	5.5 to 8 [139.7 to 203.2],excl.	0.030 [0.76]	0.015 [0.38]	10	10	0.188 [4.8]	0	
	8 to 12 [203.2 to 304.8], excl.	0.040 [1.01]	0.030 [0.76]	10	10	0.188 [4.8]	0	
	12 to 14 [304.8 to 355.6], excl.	0.050 [1.26]	0.040 [1.01]	10	10	0.188 [4.8]	0	
ASTM A-312 Seamless and Heavily Cold Worked Austenitic Stainless Steel Pipes	NPS 1/8" to 1 1/2" inch (all T/D ratios)	0.015 [0.4]	0.050 [1.26]	20	12.5	0.250 [6]	0	• Tension Test • Flattering Test • 100% Hydrostatic or Eddy current or Ultrasonic Test
	NPS 1 1/2" to 2 1/2" inch (all T/D ratios)	0.031 [0.8]	0.031 [0.8]	20	12.5	0.250 [6]	0	
	NPS 2 1/2"to 4" inch (T/D up to 5%)	0.031 [0.8]	0.031 [0.8]	22.5	12.5	0.250 [6]	0	
	NPS 4"to 8" inch.(T/D up to 5%)	0.062 [1.6]	0.031 [0.8]	22.5	12.5	0.250 [6]	0	
	NPS 8"to 18" inch.(T/D up to 5%)	0.093 [2.4]	0.031 [0.8]	22.5	12.5	0.250 [6]	0	
	NPS 18"to 26" inch.(T/D up to 5%)	0.125 [3.2]	0.031 [0.8]	22.5	12.5	0.250 [6]	0	
	NPS 26"to 30" inch.(T/D up to 5%)	0.156 [4.0]	0.031 [0.8]	22.5	12.5	0.250 [6]	0	
ASME SA 789 Seamless Duplex and Super-Duplex Stainless Steel Tubing for General Service	Up to 0.5 [12.7]	0.005 [0.13]	0.005 [0.13]	15	15	0.125 [3]	0	• Tension Test • Flare Test • Hardness Test • 100% Hydrostatic or Eddy current or Ultrasonic Test
	0.5 to 1.5 [12.7 to 38.1], excl	0.005 [0.13]	0.005 [0.13]	10	10	0.125[3]	0	
	1.5 to 3.5 [38.1 to 88.9], excl	0.010 [0.25]	0.010 [0.25]	10	10	0.188 [5]	0	
	3.5 to 5.5 [88.9 to 139.7], excl	0.015 [0.38]	0.015 [0.38]	10	10	0.188 [5]	0	
	5.5 to 8 [139.7 to 203.2], excl	0.030 [0.76]	0.030 [0.76]	10	10	0.188 [5]	0	



Application Industries

Oil and Gas Industry

Onshore and Offshore Installations

- Vessels, Tankers
- Oil Refining
- Chemical Processing
- Petrochemical Processing
- Risers / Manifolds, Platforms
- Fire Fighting Piping
- Furnace Roller / Muffle Furnace



Water and other Industries

- Desalination Plants
- Water Treatment Plants
- Medical & Pharmaceuticals
- Pulp & Paper
- Fertilizer
- Food and Dairy Processing
- Alimentary



Power Generation, Transportation

- Thermal and Nuclear Power Plants
- Renewal Energy Solution
- Automotive & Rail
- Marine & Sub Marine
- Safety Systems
- Fuel & CNG Line, Signal Transmission Lines



Decoration, Furniture

- Interior & Exterior
- Elevators & Escalators
- Hand Rail, Sanitary Wares
- Display shelf
- Hardware, Furniture
- Machinery Equipment

