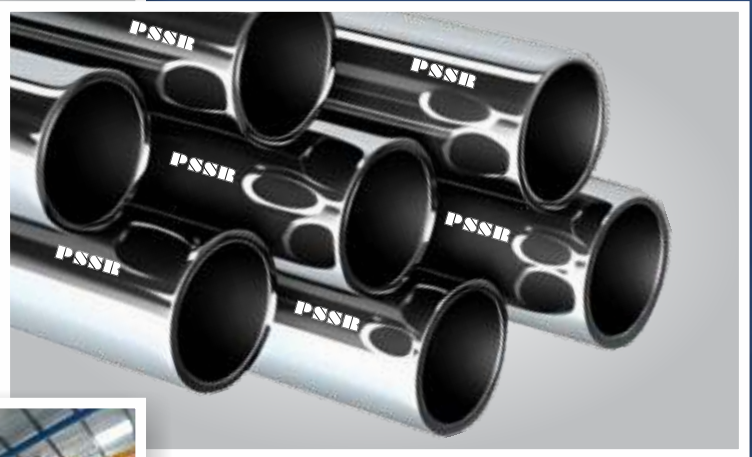
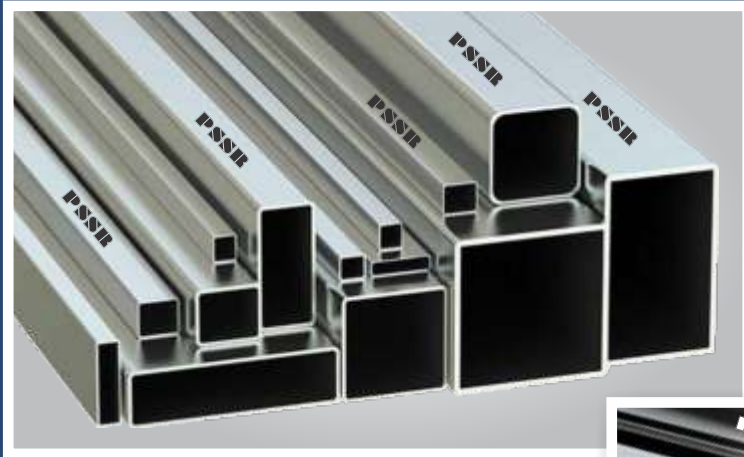


PSSR

GROUP OF COMPANIES



NSIC-CRISIL

SE 2B

Committed to Innovation Quality and Service



PSR
GROUP OF COMPANIES





Chairman's MESSAGE

It's been more than **25 years** that we came to bring; Time has changed since then, the industry has grown, markets have become more competitive, we have grown along with the demands and the expectations of the customer. Naturally so, the world is a changing place, and anything, that has not changed, to strange and perish.

In keeping with the changing times and expectations, we at PSSR not only believe in meeting your expectations better but continuously aspire to serve you better through our products and services. Though our basic objective remains intact, that of being a competitive supplier of world-class stainless-steel tube and pipes at competitive price, timely delivery and outstanding customer service, what has changed is the desire to fulfil them through better means and technology.

Our product grades would be available to you all the time, and accessing our information and communicating with us would be better facilitated. We are always ready to serve you the way you want.

Any opportunity to discuss your requirements and end applications, so as to provide you with the appropriate material is more than welcome at our end.

We look forward to an everlasting relationship with you and rededicate our commitment towards quality, service and customer support. We are sure that together we would be able to provide for a better stainless future.

With regards

Raj Kumar Gupta

Introduction

PSSR Group of Companies is an industrial tycoon with a leading presence in the stainless-steel pipe industry. The group produces economical and efficient stainless-steel pipes through modern and efficient technology. Our growth has been backed by the excellence of our people, value-driven business operations, customer centricity the adoption of one of the best safety practices in the stainless-steel industry, and a commitment to social responsibility. Our product portfolio includes Stainless Steel Round Tubes & Pipes in NB and OD series, Rectangular, Square, and Oval Sections, Threaded and Thinner Tubes, Stainless Steels sheets, coils plates.





VISION

Mr. Rajkumar Gupta, Our Chairman, understood that there are major factors that influence business growth; these are Innovative ideas to do business, services towards customers & finally the quality of Products as the Group's tagline indicates.

CLIENTELES

PSSR has grown into a highly established brand and serves a long list of customers from domestic as well as international markets. Our clients come from different industrial backgrounds, which include:

- ◆ Automobile Ancillaries
- ◆ Heat Exchanger Manufacture
- ◆ Rail Coach Ancillaries
- ◆ Industrial Equipment & Hardware Manufacture
- ◆ Decorative Furniture and Railing Manufacture
- ◆ General Engineering Manufacturing

INFRASTRUCTURE

The Group takes pride its robust infrastructure and considers its backbone. PSSR has two enormous manufacturing units that have the installation capacity 50000 metric ton PA & is spread in area of 22 acres. It is outfitted with the latest and most advanced machinery that helps us in the meeting the bulk requirements of our clients.



Awards & Achievements

QUALITY ASSURANCE

We are committed to manufacture & supply stainless steel pipes, tubes & supply coils, sheets, flats & rolls of ultimate quality at competitiveness price to our customers as per their requirements.

We also strive for customers' satisfaction through continual improvement.

We review suitability of our quality policy & quality objectives in a planned way.

ISO 9001-2015 COMPANY

Because of our excellent services and quality provided over all these years our customers, we have the privilege of being recognized as an ISO 9001-2015 certified company for the QUALITY MANAGEMENT SYSTEM STANDARD.

CRISIL RATED COMPANY

PS RAJ STEEL PRIVATE LIMITED, HARYANA has been awarded SME Grading of **CRISIL SME 3***. The grading indicated 'Good' level of Creditworthiness.

MOU PARTNERSHIP WITH JINDAL STAINLESS Ltd

PSSR Group of companies has a Memorandum of Understanding Partnership with Jindal Stainless Ltd for the supply of its raw material.

NSIC REGISTERED COMPANY

PS RAJ STEEL PRIVATE LIMITED is registered under "THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED". Our manufacturing unit is privileged to be recognized as on par with those who registered directly with DGS & D.

APPROVED VENDOR OF RAILWAYS & DEFENCE

Apart from getting certification, we are also registered at railway & defence factories. PSSR's steel pipes are widely used in the defence industry for its nonmagnetic and corrosion resistance properties. The material is beneficial for life cycle costs and increases survivability due to its toughness.

LEADING SUPPLIER FOLLOWED BADGE FOLLOWED BY TRUST SEAL FROM INDIA MART

PSSR Group of companies takes the advantage for being Leading Supplier followed by Verified Trust Seal for excellent performance on stainless steels Pipe Industry.

TOP PERFORMER AWARD FROM JINDAL STAINLESS LTD

PSSR Group of companies has been awarded by Jindal Stainless Ltd for having tremendous contribution on stainless steel the market.

MARKET PREDICTIONS AWARD BY STATE BANK OF INDIA

PSSR Group of companies has been awarded by State bank of India for an extraordinary banking operation and activities.

MEMBERSHIP BY ISSDA

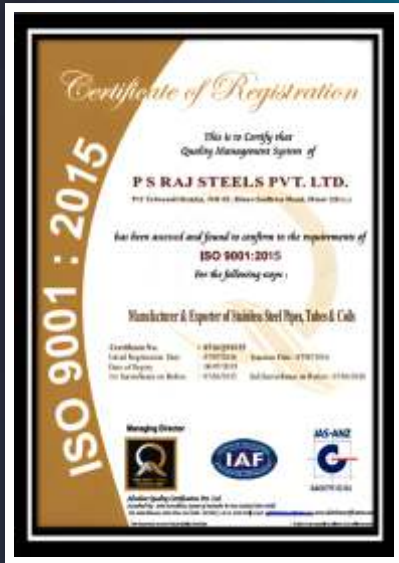
PSSR Group of companies is an associated Member of Indian Stainless Steel Development Authority.

LETTER OF APPRECIATION BY JINDAL STAINLESS LTD

PSSR Group of companies has received a Special Appreciation Letter highlighting the strong relationship with Jindal Stainless Ltd.

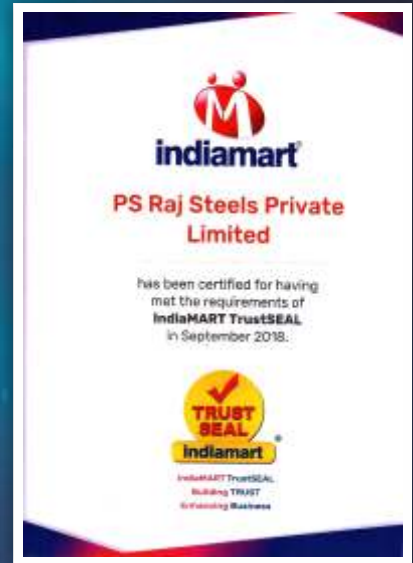
INDIAN PLUMBING SKILLS COUNCIL

This certificate is granted to STEELMINT INDUSTRIES PVT LTD in recognition of industry association and contribution to the skilling ecosystem of the Plumbing Sector.

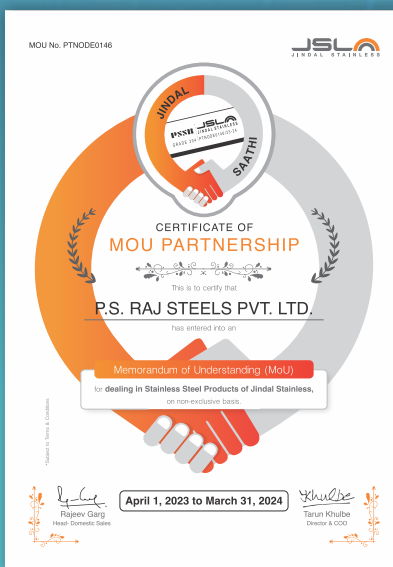


PSSIR

GROUP OF COMPANIES



NSIC
CERTIFIED CO.



EVENTS

SPONSORED VARIOUS NATIONAL AND INTERNATIONAL EXHIBITIONS

PSSR Group has sponsored various national and international events/conferences to give deep insight into stainless steel pipes to end customers.



EXHIBITION EVENT PROGRAMS/CONFERENCE

PSSR Group of companies from time to time conducts various fabrication training programs to give crux about the ease of stainless-steel fabrication.



Research and Development

The R & D division plays a pivotal role in retaining and consolidating the company's leadership position in the Stainless Steel industry. This is achieved through continuous up-gradation of quality, processes, and services and through product innovation to develop new products at competitive costs.

We have a separate Research and development team to ensure the best quality products as per customer's requirement.



WHY CHOOSE US?

We have won accolades from our numerous clients due to the unmatched quality that we offer through our products and services. However, there are many other reasons why we are preferred in the market, some of which are mentioned underneath.

1. **Location advantage :** Hisar is known as the city of Stainless steel Therefore proximity to raw material sources is an added advantage in minimizing turnaround time and maximizing price competitiveness.
2. **Pan India dealer network & warehouses :** PSSR GROUP has a reliable & trustworthy dealer network in different locations of India.
3. Flexible approach toward our client requirements. We chalked and dealt out suitable and profitable policies for our clients.
4. Our highly upgraded infrastructure gives us an edge over the others.

Stainless Steel (OD Pipes)

Size	3/8" OD to 5" OD
Thickness	0.33 mm to 4.0 mm
Grade	202, 304, 316, 409
Finish	2B, Matt, Mirror



Stainless Steel (NB Pipes)

Size	1/2" NB to 18" NB
Thickness	1.2 mm to 5.0 mm
Grade	202, 304, 316
Finish	2B, No.1, Matt, Mirror



Stainless Steel Coils & Strips

Size	25.00 mm to 1500 mm
Thickness	0.50 mm to 5.0 mm
Grade	202, 304, 316, 409
Finish	2B, No.1, No.4 (PVC), No.8 (PVC)



Stainless Steel Round/Square Bar

Size	5.0 mm to 150.00 mm
Thickness	5.00 mm to 50.00 mm
Grade	201, 304, 316
Finish	Black, Polish Bright, Export Bright



Stainless Steel (Section Pipes)

Size	Square, Rectangular, Oval, D Shape
Thickness	0.80 mm to 4.0 mm
Grade	202, 304, 316, 409
Finish	2B, Matt, Mirror



Stainless Steel Sheets & Plates

Size	1000 mm to 1500 mm
Thickness	0.80 mm to 12.0 mm
Grade	202, 304, 316, 409
Finish	2B, No.1, No.4 (PVC), No.8 (PVC)



Product STOCK

PSSR
GROUP OF COMPANIES



Applications

STAIR'S GRILL



SHIP GRILL



SUPER MART



METRO



FOOD & DAIRY PROCESSING



GYM EQUIPMENTS



PARKING SPOT



KITCHEN EQUIPMENTS



INDUSTRIAL



BRIDGE



BICYCLE STAND



AIRPORT TROLLEY





STAINLESS SEEL PIPE SERIES (ANSI B 36.10; B 36.19)

Nominal	Nominal Pipe Size	Outside Diameter	Wall Thickness and Weight							
			Sch. 5 S		Sch. 10 S		Sch. 40 S		Sch. 80 S	
Inches	mm	mm	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
1/8	6	10.29	-	-	1.24	0.281	1.73	0.370	2.041	0.475
1/4	8	13.72	-	-	1.65	0.498	2.24	0.643	3.02	0.808
3/8	10	17.15	-	-	1.65	0.639	2.31	0.857	3.20	1.116
1/2	15	21.34	1.65	0.812	2.11	1.014	2.77	1.286	3.73	1.642
3/4	20	26.67	1.65	1.032	2.11	1.296	2.87	1.708	3.91	2.225
1	25	33.40	1.65	1.310	2.77	2.121	3.38	2.537	4.55	3.282
1.1/4	32	42.16	1.65	1.671	2.77	2.728	3.56	3.435	4.85	4.524
1.1/2	40	48.26	1.65	1.923	2.77	3.150	3.68	4.101	5.08	5.484
2	50	60.33	1.65	2.421	2.77	3.986	3.91	5.515	5.54	7.588
2.1/2	65	73.03	2.11	3.741	3.05	5.336	5.16	8.755	7.01	11.570
3	80	88.90	2.11	4.578	3.05	6.546	5.49	11.448	7.62	15.484
3.1/2	90	101.60	2.11	5.248	3.05	7.514	5.74	13.756	8.08	18.891
4	100	114.30	2.11	5.918	3.05	8.483	6.02	16.296	8.56	22.628
5	125	141.30	2.77	9.593	3.40	11.722	6.55	22.065	9.52	31.364
6	150	168.28	2.77	11.462	3.40	14.015	7.11	28.648	10.97	43.142
8	200	219.08	2.77	14.979	3.76	20.240	8.18	43.129	12.70	65.526
10	250	273.05	3.40	22.920	4.19	28.163	9.27	61.131	12.70	82.661
12	300	323.85	3.96	31.669	4.57	36.478	9.52	78.811	12.70	98.790
14	350	355.60	3.96	34.812	4.78	41.923	9.53	82.451	12.70	108.871
16	400	406.40	4.19	42.131	4.78	47.994	9.53	94.554	12.7	125.000
18	450	457.20	4.19	47.453	4.78	54.064	9.53	106.657	12.7	141.129
20	500	508.00	4.78	60.135	5.54	69.591	9.53	118.760	12.7	157.258
22	550	558.8	4.78	66.205	5.54	76.627	9.53	130.864	12.7	173.387
24	600	609.6	5.54	83.662	6.35	95.766	9.53	142.967	12.7	189.516

ASTM SPECIFICATION FOR STAINLESS STEEL TUBES / PIPES								
Specification	Allowable Outside Diameters Variations in mm			Allowable Wall Thickness Tolerances in mm		Exact Length		Testing
	Diameters	Over	Under	Over	Under	Over	Under	
ASTM A-213 Seamless Boiler, Super heater and Heat Exchanger tubes	upto 25.4 25.4 to 38.1 incl. 38.1 to 50.8 excl. 50.8 to 63.5 excl. 63.5 to 76.2 excl. 76.2 to 101.6 incl.	0.10 0.15 0.20 0.25 0.30 0.38	0.10 0.15 0.20 0.25 0.30 0.38	+20 +20 +22 +22 +22 +22	-0 -0 -0 -0 -0 -0	3.17 3.17 3.17 3.76 4.76 4.76	0 0 0 0 0 0	Tension Test Flattening Test Flare Test Hardness Test 100% Hydrostatic Test Refer to ASTM A-450
ASTM A-249 Welded Boiler Super heater heat Exchanger and Condenser Tubes	upto 25.4 25.4 to 38.1 incl. 38.1 to 50.8 excl. 50.8 to 63.5 excl. 63.5 to 76.2 excl. 76.2 to 101.6 incl.	0.10 0.15 0.20 0.25 0.30 0.38	0.10 0.15 0.20 0.25 0.30 0.38	+10 +10 +10 +10 +10 +10	-10 -10 -10 -10 -10 -10	3.17 3.17 3.17 4.76 4.76 4.76	0 0 0 0 0 0	Tension Test Flattening Test Flange Test Reverse Bend Test Hardness Test 100% Hydrostatic Test Refer to ASTM A-450 when ever applicable
ASTM A-269 Seamless & Welded Tubes General Services	upto 12.7 12.7 to 38.1 excl. 38.1 to 88.9 excl. 88.9 to 139.7 excl.	0.13 0.13 0.25 0.38	0.13 0.13 0.25 0.38	+15 +10 +10 +10	-15 -10 -10 -10	3.2 3.2 4.8 4.8	0 0 0 0	Flare Test (Seamless only) Flange Test (Welded only) Reverse Flattening Test (Welded only) Hardness Test 100% Hydrostatic Test
ASTM A-270 Seamless and Welded Austenitic Stainless Steel Sanitary Tubing	25.4 38.1 50.8 63.5 76.2 101.6	0.05 0.05 0.05 0.05 0.08 0.08	0.20 0.20 0.28 0.28 0.30 0.38	+12.5 +12.5 +12.5 +12.5 +12.5 +12.5	-12.5 -12.5 -12.5 -12.5 -12.5 -12.5	3.2 3.2 3.2 3.2 3.2 3.2	0 0 0 0 0 0	Reverse Flattening test 100% Hydrostatic Test External Polish on all tubes Refer to ASTM A-270
ASTM A-312 Seamless & Welded pipes	13.7 to 48.3 incl. 48.3 to 114.3 incl. 114.3 to 220 incl.	0.40 0.79 1.60	0.79 0.79 0.79	Minimum Wall 12.5% under normal wall Specified		6.4 6.4 6.4	0 0 0 (Normally Random Lengths Ordered)	Tension Test Flattening Test 100% Hydrostatic Test Refer to ASTM A-530

FORMULA	
1. Formula for Calculating S. S. Pipe Weight	0.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0248 = Wt. Per METER.
2. Formula for Calculating S. S. Bar Weight	DIA (mm) X DIA (mm) X 0.00623 = Wt. Per METER.
3. Formula for Calculating S. S. Square Bar Weight	DIA (mm) X DIA (mm) X 0.00788 = Wt. Per METER.
4. Formula for Calculating S. S. Hexagonal Bar Weight	DIA (mm) X DIA (mm) X 0.00680 = Wt. Per METER.
5. Formula for Calculating S.S. Flat Bar Weight	Width (mm) X Thick (mm) X 0.00798 = Wt. Per METER.
6. Formula for Calculating S.S. Sheet & Plates Weight	Length (metres) X Width (metres) X Thick (mm) X 8.068 = Wt. Per PC.
7. Formula for Calculating S.S. Circle Weight	Dia (mm) X Dia (mm) X Thick (mm) X 0.0000063 = Wt. Per PC

WEIGHT CHART

ROUND

OD (Inch)	OD (MM)	0.60	0.70	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
3/8"	09.53	00.81	00.93	01.06	01.17	01.29	01.51	-	-	-	-	-
1/2"	12.70	01.10	01.27	01.44	01.61	01.77	02.09	02.54	03.24	-	-	-
5/8"	15.88	01.39	01.61	01.82	02.04	02.25	02.66	03.26	04.20	-	-	-
3/4"	19.05	01.67	01.94	02.21	02.47	02.73	03.24	03.98	05.16	-	-	-
1"	25.40	02.25	02.61	02.98	03.33	03.69	04.39	05.42	07.08	-	-	-
1-1/4"	31.75	-	03.29	03.74	04.20	04.65	05.54	06.86	09.00	-	-	-
1-1/2"	38.10	-	03.96	04.51	05.06	05.61	06.70	08.30	10.92	-	-	-
2"	50.80	-	-	06.05	06.79	07.53	09.00	11.18	14.76	18.26	21.68	-
2-1/2"	63.50	-	06.65	07.58	08.52	09.45	11.30	14.06	18.60	23.06	27.44	35.99
3"	76.20	-	07.99	09.12	10.25	11.37	13.61	16.94	22.44	27.86	33.20	43.67
4"	101.6	-	-	-	13.70	15.21	18.22	22.70	30.12	37.46	44.72	59.03
5"	127.00	-	-	-	-	-	23.67	31.38	41.27	51.59	63.79	70.04

SQUARE

SIZE	0.6	0.7	0.8	0.9	1	1.2	1.5	2	2.5	3	4
10X10	01.10	01.27	01.44	01.61	01.77	02.09	-	-	-	-	-
12.5X12.5	01.39	01.61	01.82	02.04	02.25	02.66	03.26	-	-	-	-
15X15	01.67	01.94	02.21	02.47	02.73	03.24	03.98	-	-	-	-
20X20	02.25	02.61	02.98	03.33	03.69	04.39	05.42	07.08	-	-	-
25X25	-	03.29	03.74	04.20	04.65	05.54	06.86	09.00	-	-	-
30X30	-	03.96	04.51	05.06	05.61	06.70	08.30	10.92	-	-	-
40X40	-	05.30	06.05	06.79	07.53	09.00	11.18	14.76	-	-	-
50X50	-	-	-	08.52	09.45	11.30	14.06	18.60	-	-	-
60X60	-	-	-	10.25	11.37	13.61	16.94	22.44	-	-	-
80X80	-	-	-	13.70	15.21	18.22	22.70	30.12	37.46	44.72	59.03

RECTANGLE

10X20	01.67	01.94	02.21	02.47	02.73	03.24	-	-	-	-	-
10X30	02.25	02.61	02.98	03.33	03.69	04.39	05.42	-	-	-	-
10X40	-	03.29	03.74	04.20	04.65	05.54	06.86	-	-	-	-
10X50	-	-	04.51	05.06	05.61	06.70	08.30	-	-	-	-
20X30	02.83	03.29	03.74	04.20	04.65	05.54	06.86	09.00	-	-	-
20X40	03.40	03.96	04.51	05.06	05.61	06.70	08.30	10.92	-	-	-
25X50	04.30	05.01	05.71	06.41	07.11	08.49	10.55	13.91	-	-	-
25X75	-	-	-	08.52	09.45	11.30	14.06	18.60	-	-	-
35X65	-	-	-	08.52	09.15	11.30	14.06	18.60	-	-	-
40X60	-	-	-	08.52	09.45	11.30	14.06	18.60	23.06	27.44	35.99
40X80	-	-	-	10.25	11.31	13.61	16.94	22.44	-	-	-
50X110	-	-	-	13.70	15.21	18.22	22.70	30.12	37.46	44.72	59.03

OVAL

13X25	-	2.134	02.43	02.72	03.00	03.57	04.39	05.70	-	-	-
33X13	01.84	2.678	03.05	03.42	03.78	04.50	05.55	07.25	-	-	-
45X19	02.30	-	04.25	04.77	05.28	06.30	07.81	10.26	-	-	-

Weight in per kg 20 feet length

Mechanical Properties						Comparison of Indian / Prop. (JSL) Grades with Various International Standards					
Grade	Tensile Strength Mpa (Min.)	Yield Strength Mpa (Min.)	% Elongation (Min.)	Hardness BHN (Max.)	Hardness RB (Max.)	INDIA / IS Letter Symbol	INDIA / IS Numerical Symbol (ISS)	UNS Designation	Germany / DIN	JAPAN / JIS	USSR / GOST
Austenitic											
301	515	205	40	217	95	X10Cr17Ni7	301	S30100	X12CrNi177	SUS301	
304	515	205	40	201	92	X04Cr19Ni9	304SI	S30400	X5CrNi1810	304	08Ch18N10
304H	515	205	40	201	92			S30409			
304L	485	170	40	201	92			S30403	X2CrNi1911	SUS304L	03Ch18N11
304LN	515	205	40	201	92			S30453	X2CrNiN1810	SUS304LN	
309	515	205	40	217	95	X15Cr24Ni13	309		X15CrNiSi2012	SUH309	20Ch20NS2
309S	515	205	40	217	95			S30908	X7CrNi2314	SUS309S	
310	515	205	40	217	95	X20Cr25Ni20	310		X15CrNiSi2520	SUH310	20Ch25N20S2
310S	515	205	40	217	95			S31008	X12CrNi2521	SUS310S	20Ch23N18
316	515	205	40	217	95	X04Cr17Ni12Mo2	316	S31600	X5CrNiMo17122	SUS316	
316L	485	170	40	217	95	X02Cr17Ni12Mo2	316L	S31603	X2CrNiMo18143	SUS316L	3Ch17N14M3
316LN	515	205	40	217	95			S31653	X2CrNiMoN17133	SUS316LN	
316Ti	515	205	40	217	95	X04Cr17Ni12Mo2Ti	S31635	S316Ti	X6CrNiMoTi17122		10Ch17N13M2T
317	515	205	40	217	95			S31700	X5CrNiMo17133	SUS317	
317L	515	205	40	217	95			S31703	X2CrNiMo18164	SUS317L	
317LN	550	240	40	217	95			S31753			
321	515	205	40	217	95	X04Cr18Ni10Ti	321	S32100	X6CrNiTi1810	SUS321	08Ch18N10T
347	515	205	40	201	92	X04Cr18Ni10Nb	347	S34700	X6CrNiNb1810	SUS347	08Ch18N12B
Ferritic + Martensitic											
409	380	205	20	179	88			S40900	X6CrTi12		
409RC	350	170	30	179	88						
409M	450	275	20	187	90						
410	450	205	20	217	96	X12Cr12	410	S41000	X10Cr13	SUS410	
410S	415	205	22	183	89			S41008			
Ferritic											
405	415	170	20	179	88	X04Cr12	405	S40500	X6CrAl13	SUS405	
430	415	205	22	183	89	x07cr17	430	S43000	X6Cr17	SUS430	
430Ti	360	175	27	179	88	X6CrTi17		SUS430LX			
436	450	240	22	89				S43600			
Low Nickel Austenitic											
JSL	550	205	40	217	95						
J3	600	250	40	217	95						
J4	700	350	40	217	95						

Chemical Properties												
Grade	USA-Canada/ AISI-ASTM-ASME	% C (Max)	% Mn (Max)	% P (Max)	% S (Max)	% Si (Max)	% Cr	% Ni	% Mo	% N (Max)	% Cu (Max)	
AUSTENITIC												
301	301	0.15	2.00	0.045	0.030	1.00	16.00 - 18.00	6.00 - 8.00	-	0.10	-	-
304	304	0.08	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00 - 10.50	-	0.10	-	-
304H	304H	0.04 - 0.10	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00 - 10.50	-	-	-	-
304L	304L	0.03	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00 - 12.00	-	0.10	-	-
304LN	304LN	0.03	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00 - 12.00	-	0.10 - 0.16	-	-
309	309	0.2	2.00	0.045	0.030	0.75	22.00 - 24.00	12.00 - 15.00	-	-	-	-
309S	309S	0.08	2.00	0.045	0.030	0.75	22.00 - 24.00	12.00 - 15.00	-	-	-	-
310	310	0.25	2.00	0.045	0.030	0.75	24.00 - 26.00	19.00 - 22.00	-	-	-	-
310S	310S	0.08	2.00	0.045	0.030	0.75	24.00 - 26.00	19.00 - 22.00	-	-	-	-
316	316	0.08	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10	-	-
316L	316L	0.03	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10	-	-
316LN	316LN	0.03	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10 - 0.16	-	-
316Ti	316Ti	0.08	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10	-	Ti 5X(C+N) Min., 0.70 Max.
317	317	0.08	2.00	0.045	0.030	0.75	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	0.10	-	-
317L	317L	0.03	2.00	0.045	0.030	0.75	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	0.10	-	-
317LN	317LN	0.03	2.00	0.045	0.030	0.75	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	0.10 - 0.22	-	-
321	321	0.08	2.00	0.045	0.030	0.75	17.00 - 19.00	9.00 - 12.00	-	0.10	-	Ti 5X(C+N) Min., 0.70 Max.
347	347	0.08	2.00	0.045	0.030	0.75	17.00 - 19.00	9.00 - 13.00	-	-	-	Cb = 10XC Min., 1.00 Max.
FERRITIC + MARTENSITIC												
409	409	0.080	1.00	0.040	0.020	1.00	10.50 - 11.75	0.50 max.	-	0.030	-	Ti = 6X(C+N) Min., 0.75 Max.
409RC	-	0.02	1.00	0.040	0.030	1.00	10.50 - 11.75	0.50 max.	-	0.020	-	Ti = 5X C Min., 0.75 Max.
409M	-	0.03	0.8 - 1.5	0.03	0.030	1.00	10.80 - 12.50	1.50 max.	-	0.030	-	Ti = 0.75 Min.
410	410	0.15	1.00	0.040	0.030	1.00	11.50 - 13.50	0.75 max.	-	-	-	-
410S	410S	0.08	1.00	0.040	0.030	1.00	11.50 - 13.50	0.60 max.	-	-	-	-
FERRITIC												
405	405	0.80	1.00	0.04	0.030	1.00	11.50 - 14.50	0.60	-	-	-	Al = 0.10 - 0.30
430	430	0.12	1.00	0.04	0.030	1.00	16.00 - 18.00	0.75 max.	-	-	-	-
430 Ti	430	0.030	1.00	0.04	0.030	1.00	16.00 - 19.00	-	-	-	-	Ti = 0.10 - 1.0
		0.12	1.00	0.040	0.030	1.00	16.00 - 18.00	-	0.75-1.25	-	-	Cb = 5X C Min., 0.80 max.
MARTENSITIC												
420	420	0.15 min.	1.00	0.040	0.030	1.00	12.00 - 14.00	0.75 max.	-	-	-	Mo = 0.50 Max.
JBS	-	0.6 - 0.75	1.00	0.04	0.030	0.75	12.00 - 14.00	-	0.75 max.	-	-	-
LOW NICKLE AUSTENITIC												
JSLAUS (J1)	-	0.08	7.00 - 8.00	0.075	0.030	0.75	15.00 - 17.00	4.00 - 5.00	-	0.10	1.5	-
J3	-	0.08	9.00 - 10.50	0.075	0.030	0.75	14.00 - 16.00	2.00 - 3.00	-	0.15	2.0	-
J4	-	0.10	8.50 - 10.00	0.090	0.030	0.75	15.00 - 16.00	1.2 (max.)	-	0.20	2.0	-



EXHIBITION





MEETS

PSSR
GROUP OF COMPANIES





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