



Creating New Concepts of Higher Stainless Steel Quality to Suit Modern Industry



Dev Metal Industries

AN ISO 9001:2015 & ISO 14001:2015 CERTIFIED COMPANY




For HIGH QUALITY
Stainless Steel Pipes, Tubes,
Coils, Rods, Flats & Angles



AN INTRODUCTION

Dev Metal Industries was incorporated and established in 1989 by Shri Devraj Choudhary with Mr. Dhawal Choudhary and Mr. Narender Choudhary as a Partnership firm to begin with a dream to create new standards in business with zeal and high spirit in Steel Industries keeping in mind honesty, dedication, commitment, punctuality.

Dev Metal Industries has been playing a pivotal role in the ferrous and Non-ferrous Industries for **35 Years** in supplying and fulfilling the requirements of Stainless Steel industries in India and Abroad.



We have, in this booklet, tried to explain maximum technical and non-technical details and in formations which shall be not only helpful to you to select technically suitable high quality products but also to provide the best competitive prices keeping in mind neck to neck competition at market.

In November 2009, **Dev Metal Industries** have started its own new state of the art Stainless Steel Tube, Pipe and Pipe fittings (ERW=Electro Refusal Welded) manufacturing plant with latest technology with installed capacity of 5,000 tonnes per annum during 2009-2010. The Plant is located at E-41 (G-1). RIICO Industrial Area, VPO Khushkhera, Tehsil-Tijara (Bhiwadi), Distt. Alwar, Rajasthan (India) on National Delhi-Mumbai Industrial Corridor (DMIC). The Plant is approved and granted a National level certification by National Small Industries Corporation (NSIC-GOL).

The plant is fully automatic of ASTM standards supported by latest high quality testing laboratory to meet international market/EOU.



VISION

To achieve customer satisfaction through continuous innovation, better products, time bound delivery yet holding firmly on honesty and genuineness.



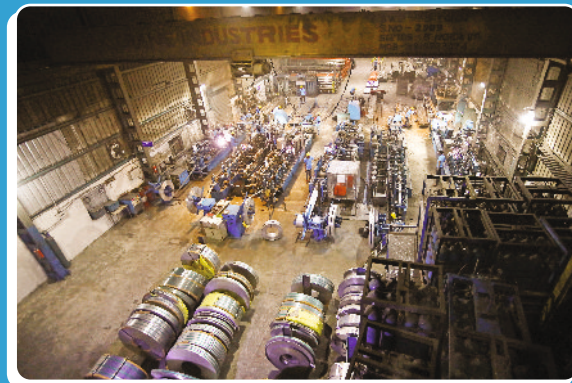
MISSION

- To focus on being marked driver than driven.
- To motivate the use of stainless steel in different category & fields
- To become a market leader by establishing ourselves as a leading manufacturer of steel products in National & International market.
- To promote overseas activities to greater heights as well as to bring new developments in various industries. of Steel Like Decorative Furnishing, Food & Dairy Processing Automobile, Sugar Industry, Infrastructure, Metro Rail Etc

MANUFACTURING FACILITIES

WELDED PIPES & TUBES

Cold rolled Stainless Steel strips are welded into tubes in the state of the art tube mills under fully automated precision process. The manufacturing of pipes begins with slitting of strips of required width based on the diameter of the tubes to be formed. These slitted strips are passed through a series of rollers and form tubes automatically on different stands with rolls and welded on fully automated process of TIG welding without the addition of filler metal. The welding head line is polished continuously with the help of automatic bead polishing machine to produce a perfect even surface. The tubes are then passed through a series of sizing rolls to ensure joviality and tolerances. Tubes are then cut into required lengths, Cold-drawn, Solution Annealed, Straightened, Pickled, Passivated and Polished before other Destructive and Nondestructive Testing & Dispatch. The systematic chain-type processes have been approved and granted certification of maintaining International standard ISO 9001:2015 & ISO 14001:2015.



ANNEALING

Annealing, or heat treatment, of the tube is carried out through a fully automatic conveyor. It consists of heating the tubes to a specified temperature and immediate quenching in circulating water thereafter.

STRAIGHTENING

After the annealing operation, the tubes are straightened with a straightening machine. In addition to giving a high degree of straightness, the tubes are also rounded up during the operation.



POLISHING

The excellent properties of Stainless Steel Tubes and Pipes, including their high aesthetic & hygienic value, low maintenance and high durability, has led to an increased demand for polished tubes and pipes in architecture, general engineering, dairy & food-processing sectors, among others. To meet such demands for high-quality externally polished tubes and pipes, Dev Metal is equipped with a state-of-the-art polishing machine.

Ranges of finish from :

220 grit to 1200 grit (mirror finish) & 80 grit to 220 grit (mat finish) are made as per customers Requirement.



INSEPTION & PACKAGING

Our team of experts maintain the quality of the products. Every single piece inspect before packaging & dispatch . we use to pack material in proper plastic cover to avoid scratch and any damages in transport and so forth. after that labeling with mentioning grade, dimension, Quantity on each bundle. and all the documents and test certificates and reports attached with the dispatch documents. We stand by severe quality norms to ensure the supply of defect-free material to our customers.

SIZE RANGE

- OD: 8.0 mm OD to 219.08 mm OD
- Thickness: 0.5 mm THKto 6.0 mm THK
- Length: As per customer's requirement
- Grade: AISI - 202, 304, 304L, 316, 316L
- DIN-1.4301, 1.4306, 1.4401, 1.4404

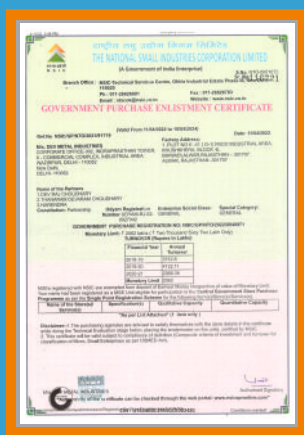


QUALITY CONTROL

DEV METAL INDUSTRIES management team firmly dedicates itself to provide customers with products of a high quality standards. Products are manufactured and supplied in accordance with industry norms, as well as our customers' own corporate standards. Specifications and control plans are strictly adhered to. Each of our suppliers operates according to internationally recognized Quality Management System standards.

Our Quality Policy, together with all aspects of our company's Quality System, is respected by mandate and is observed by all who act, in whatever capacity, on our behalf. The management team engages in regular communication with all employees to ensure that the Quality Policy is understood, implemented, and maintained at all levels.

Given the progressive nature of quality assurance, the management team undertakes to continually improve the effectiveness of our Quality System, to ensure our position at the forefront of quality matters, together with our ongoing compliance with our customer needs and expectations.



TESTING

Adequate measures are taken to minimise the pollution & environment protection.

CHEMICAL ANALYSIS

Chemical Test as to ensure a specific quality.

CORROSION TEST

Corrosion test is conducted only when specially requested by the client.

HESTRUCTIVE / MECHANICAL TESTING

1. Tensile
2. Hardness
3. Flattening
4. Flare
5. Flange
6. Reverse-bend and Re. flat tests are carried out in full compliance

With relevant standard i.e. ASTM A-450 and A-530 norms this ensures trouble-free expansion, welding and use at customers end.

EDDY CURRENT TESTING

To detect homogeneities in subsurface, eddy current testing is carried out using Digital Flaw-mark Testing System.

HYDROSTATIC TESTING

100% Hydrostatic Testing is carried out according to ASTM-A 450 norms to check the tube leakage.

MARKING

To ensure complete identification and traceability, all the information as required by the standards i.e. Brand Name, Size, Grade, Specifications, Heat no., Lot No. is marked on all the pipes and tubes by using the latest inkjet marking machine.

AIR UNDER PRESSURE TEST

Tubes are internally pressurized with clean and dry compressed air and being submerged in clear water to check any evidence of air leakage.

VISUAL INSPECTION

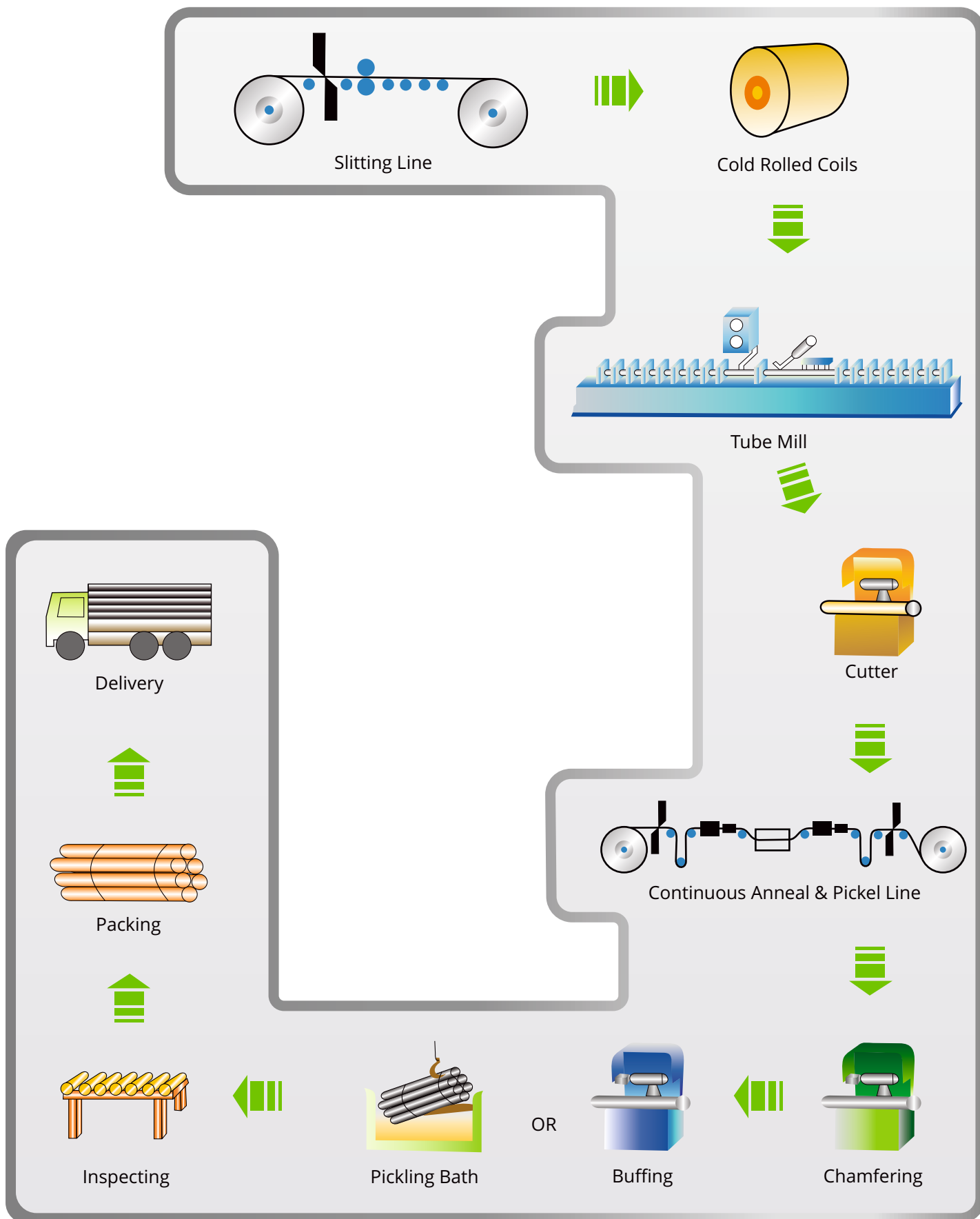
After passivation, every single length of tubes and pipes is subjected to a visual inspection by trained staff to detect surface flaws and other imperfections.

SUPPLEMENTARY TESTING

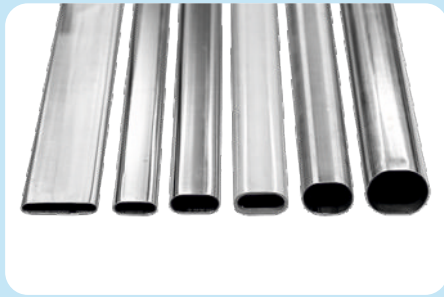
1. Eddy Current Testing
2. O.P Testing
3. Radiography Testing
4. Corrosion Testing:-
 - a) Micro Testing
 - b) Macro Testing
 - c) IGC Testing as per practice ABC...
5. Ultrasonic Testing
6. Liquid Penetrate Testing

Note: Supplementary Tests are conducted only when specially requested by the client.

MANUFACTURING PROCESS



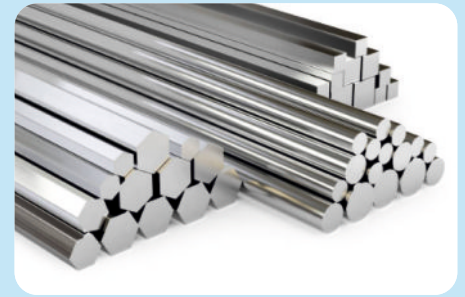
PRODUCTS OFFERED



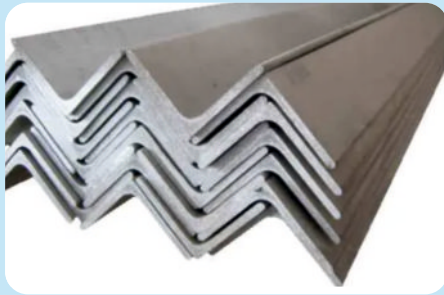
Stainless Steel Capsule Pipe



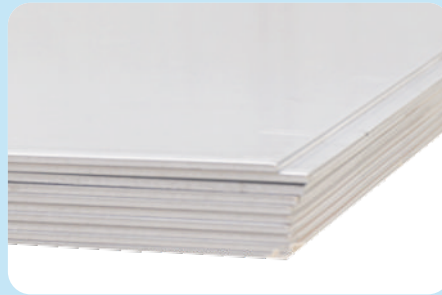
Stainless Steel Round Pipe



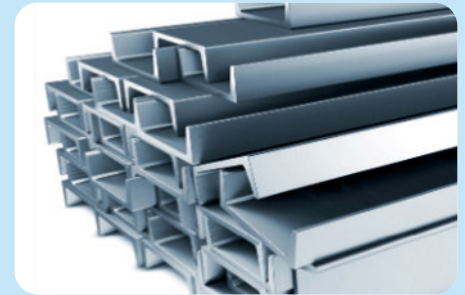
Stainless Steel Rod



Stainless Steel Angle



Stainless Steel Sheet



Stainless Steel Channel

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PROMISE

PIPES & TUBES

Superior Finish

Corrosion Resistance

JINDAL SAATHI PARTNER: DEV METAL INDUSTRIES

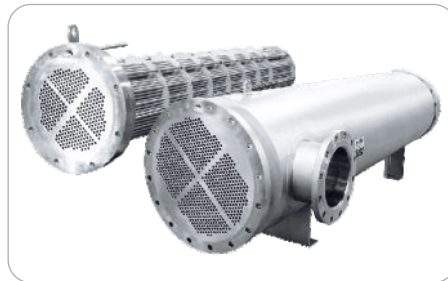
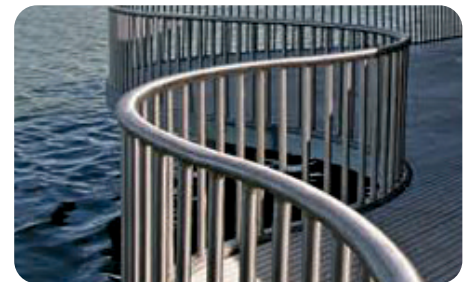
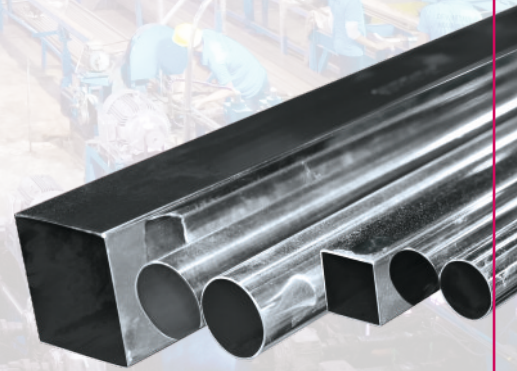
देव मेटल इंडस्ट्रीज

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STAINLESS STEEL FOR FOLLOWING INDUSTRIES

- » Chemical Plants
- » Fertilizer Plants
- » Pharmaceutical
- » Railway Coaches
- » Refrigeration
- » Metallurgical industries
- » Oil & Gas industries
- » Sugar industries
- » Decoratives
- » Dairy & Food Products
- » Instrumentation
- » Power Plants
- » Furniture / Railing
- » Heat Exchangers
- » Pulp & Paper Mills
- » Food industries
- » Energy industries
- » Submersible Pumps
- » Fabrication
- » Automobile industries
- » Sanitary/ Plumbing
- » Boilers
- » Space Applications
- » Ships
- » Architectural & Construction



STAINLESS STEEL

CHEMICAL COMPOSITION %

AISI ASTM	C Max	Mn Max	P Max	S Max	SI Max	Cr	NI	MO	Other Element	Nearest Equivalent Spec.	
										I.S.	En
201	0.15	5.50/7.50	0.06	0.030	1.0	16.0/18.0	3.6/5.5	-	N-25max	10Cr-17Mn6Ni4	-
202	0.15	7.50/10.0	0.06	0.030	1.0	17.0/19.0	4.0/6.0	-	N-25max	-	-
301	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni17	-
302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni19	En-58a
303	0.15	2.0	0.045	-	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni19	En-58M
304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	En-58B
304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	02Cr18Ni11	-
308	0.08	2.0	0.045	0.030	1.0	10.0/21.0	10.0/12.0	-	-	-	-
309	0.20	2.0MAX	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12	-
309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
310	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12	-
310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-	-
314	0.25	2.0	0.045	0.030	1.5to3	25.0/26.0	19.0/22.0	-	-	-	-
316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	En-58H
316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr18Ni12Mo2	-
317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	Tiy5cmin	-
316TI	0.080	2.0	0.045	0.030	1.0	16/18.0	10.0/14.0	2.0/3.0	Ti5xCmin	-	-
321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	Ti5xCmin	04Cr18Ni10Ti20	En-58C
430	0.12	1.00	0.040	0.030	0.75	14.0/18.0	0.60	-	-	07Cr17	En-60
446	0.20	1.50max	0.040	0.030	1.0	23.0/27.0	0.60Max	-	N-25max	-	-
403	0.15	1.00	0.040	0.030	.50	11.5/13.0	0.60	-	-	-	-
410	0.15	1.00	0.040	0.030	1.00	11.5/13.5	0.60	-	-	12Cr13	En-58A
410S	0.08	1.0	0.040	0.030	1.0	11.5/13.5	0.60Max	-	-	-	-
414	0.15	1.0max	0.040	0.030	1.0	12.0/14.0	1.25/2.50	-	-	-	-
420	Over0.15	1.00	0.040	0.030	1.00	12.0/14.0	0.60	-	-	22Cr13	En-56C&D
431	0.20	1.0max	0.040	0.30	1.0	15.0/17.0	1.25/2.50	0.75max	-	15Cr16Ni12	En-57
440A	0.60/0.70	1.0	0.040	0.030	1.0	16/18	-	-	-	-	-
440B	0.75	1.0	0.040	0.030	1.0	16.0/18.0	-	0.75max	-	-	-
-	0.95	-	-	-	-	-	-	-	-	-	-
440C	0.95	1.0	0.040	0.030	1.0	16/18	0.75max	-	-	-	-
-	1.2	-	-	-	-	-	-	-	-	-	-
446	0.20	1.50	0.40	0.030	1.0	23.0/210	-	-	-	No.25Max	-

PHYSICAL PROPERTIES

Grade	Tensile Strength KSI (Mpa)	Yield Strength KSI (MPa)	Elongation in 2 inches %min	Max. Hardness		Thermal Conductivity Col/sec. cm ² c At Temp Range 20-500 ^o c	Co-efficient of expansion X 10-6cm/ Cm/ ^o c at Temp. Range 20-870 ^o c
				Brinell (HBW)	Rockwell (HRB)		
TP 301	(75) 515	(30) 205	35	192	90	0.051	19.8
TP 304	(75) 515	(30) 205	35	192	90	0.051	19.9
TP 304L	(70) 485	(25) 170	35	192	90	0.051	19.8
TP 304N	(80) 505	(35) 240	35	192	90	0.051	19.9
TP 304LN	(75) 515	(30) 205	35	192	90	0.051	19.8
TP 309	(75) 515	(30) 205	35	192	90	0.45	19.9
TP 310	(75) 515	(30) 205	35	192	90	0.044	18.8
TP 316	(75) 515	(30) 205	35	192	90	0.042	19.3
TP 316L	(70) 485	(25) 170	35	192	90	0.042	19.3
TP 316TI	(75) 515	(30) 205	35	192	90	0.042	19.3
TP 316N	(80) 505	(35) 240	35	192	90	0.038	19.3
TP 316LN	(75) 515	(30) 205	35	192	90	0.42	19.3
TP 317L	(75) 515	(30) 205	35	192	90	0.49	17.5
TP 321	(75) 515	(30) 205	35	192	90	0.051	19.8
TP 347	(75) 515	(30) 205	35	192	90	0.53	19.9
TP 405	(60) 415	(30) 205	20	207	95	0.064	10.8
TP 410	(60) 415	(30) 205	20	207	95	0.059	9.9
TP 429	(60) 415	(35) 240	20	190	90	0.061	10.3
TP 430	(60) 415	(35) 240	20	190	90	0.062	10.5
TP 430TI	(60) 415	(35) 240	20	190	90	0.62	10.5
TP 439	(60) 415	(30) 205	20	190	90	0.057	11.5
UNS S31803	(90) 620	(65) 450	25	290	30 hrc	0.041	16.9
UNS S32205	(95) 655	(70) 485	25	290	30 hrc	0.041	16.9
UNS S32750	(116) 800	(80) 550	15	300	32 hrc	0.04	14.2
UNS S32760	(109) 750	(80) 550	25	300	-	0.035	13.8

STAINLESS STEEL - PIPES & TUBES

ASTM SPECIFICATIONS - S.S. TUBES & PIPES

Specification	Allowable Outside Diameter Variations in mm			Allowable Wall Thickness Variations		Exact Length Tolerance in mm		Testing
	Nominal Diameter	Over	Under	%Over	%Under	Over	Under	
ASTM-A213 Seamless Boiler Superheater and Heat Exchanger Tubes	Under 25.4	.1016	.1016	+20	-0	3.175	0	Testing Test Flattening Test Flare Test Hardness Test 100%Hydrostatic Test Refer to ASTM A-450
	25.4-38.1 incl	.1524	.1524	+22	-0	3.175	0	
	38.1-50.8excl	.2032	.2032	+22	-0	3.176	0	
	50.8-63.5excl	.254	.254	+22	-0	4.76	0	
	63.5-76.2excl	.3048	.3048	+22	-0	4.76	0	
ASTM-A249 Seamless Boiler Superheater, Heat Exchanger and Condenser Tubes	Under 25.4	.1016	.1016	+10		3.175	0	Tension Test Flattening Test Flare Test Reverse Bend Test Hardness Test 100%Hydrostatic Test Reverse flattening Test Refer to ASTM A-450 Whenever applicable
	25.4-38.1 incl	.1524	.1524	+10	-10	3.175	0	
	38.1-50.8excl	.2032	.2032	+10	-10	3.176	0	
	50.8-63.5excl	.254	.254	+10	-10	4.76	0	
	63.5-76.2excl	.3048	.3048	+10	-10	4.76	0	
ASTM-A269 Seamless & Welded Tubing FOR General Service	upto 12.7	.13	.13	+15	-15	3.2	0	Flare Test Flange Test (Welded Only) Hardness Test Reverse flattening Test (Welded Only) 100%Hydrostatic Test Refer to ASTM A-269
	12.7-38.1excl	.13	.13	+10	-10	3.2	0	
	38.1-88.9excl	.25	.25	+10	-10	4.8	0	
	88.9-139.7excl	.38	.38	+10	-10	4.8	0	
	139.7-203.2excl	.76	.76	+10	-10	4.8	0	
ASTM-A270 Seamless & Welded Sanitary Tubing	25.4	.05	.20	+12.5	-12.5	3.2	0	Reverse flattening Test 100%Hydrostatic Test External polish on all tubes Refer to ASTM A-270
	38.1	.05	.20	+12.5	-12.5	3.2	0	
	50.8	.05	.28	+12.5	-12.5	3.2	0	
	63.5	.05	.28	+12.5	-12.5	3.2	0	
	76.2	.08	.30	+12.5	-12.5	3.2	0	
ASTM-A312 Seamless & Welded pipe	3.175-38.1 incl	.4	.79	Minimum Wall 12.5% under nominal wall specified		6.4	0	Tension Test Flattening Test 100%Hydrostatic Test Refer to ASTM A-530 (Normally Random Lengths ordered)
	38.1-101.6 incl	.79	.79		6.4	0		
	101.6-203.2 incl	1.59	.79		6.4	0		
ASTM-A358 Welded Pipe	219.08-750mm or-0.01 inch	+0.5%		-0.3		6.0		Refer to ASTM A-530

DIMENSIONS AND WEIGHT - STANDARD TUBING SIZES

DIMENSION		10SWg	12SWg	14SWg	16SWg	18SWg	20SWg	22SWg
SIZE INCHES	OD IN MM	3.25MM WT.KG/M	2.64.MM WT.KG/M	2.03MM WT.KG/M	1.62MM WT.KG/M	1.21MM WT.KG/M	0.91MM WT.KG/M	0.71MM WT.KG/M
3/8	9.52	0.549	0.447	0.405	0.341	0.268	0.193	0.165
1/2	12.7	0.768	0.654	0.542	0.451	0.350	0.264	0.213
3/4	19.05	1.285	1.068	0.864	0.710	0.544	0.407	0.320
1	25.4	1.181	1.482	1.187	0.969	0.738	0.549	0.432
1¼	31.75	2.318	1.895	1.510	1.228	0.932	0.692	0.543
1½	38.1	2.834	2.309	1.832	1.487	1.126	0.820	0.654
1¾	44.45	3.408	2.722	2.191	1.775	1.341	0.834	0.765
2	50.8	3.868	3.136	2.478	2.006	1.541	1.119	0.877
2½	63.5	4.901	3.963	3.123	2.524	1.858	-	-
3	76.2	5.934	4.790	3.453	2.789	2.237	-	-
3½	88.9	6.964	5.617	4.413	3.560	2.616	-	-
4	101.6	8.000	6.444	5.059	4.078	2.995	-	-
4½	114.3	8.900	7.272	5.620	4.501	3.374	-	-
5	127.0	9.917	8.099	6.255	5.008	3.753	-	-
6	152.4	11.953	9.753	7.527	6.023	4.474	-	-

S S ROUND PIPE RANGE

Size (mm)	Thikness (mm) (weight kgs of 6.1 mtr length)					
	0.6	0.9	1.2	1.5	2	3
9.5	0.81	1.17	1.51	1.81		
12.7	1.10	1.61	2.09	2.54	3.24	
15.87	1.39	2.04	2.66	3.26	4.19	
17		2.19	2.87	3.52	4.54	6.35
19.05	1.67	2.47	3.24	3.98	5.16	
20		2.60	3.41	4.20	5.44	7.71
20.5		2.67	3.50	4.31	5.59	7.94
21.3		2.78	3.65	4.49	5.84	8.30
23		3.01	3.96	4.88	6.35	9.07
24	2.12	3.14	4.14	5.10	6.65	9.53
25.4	2.25	3.33	4.39	5.42	7.08	10.16
26.7	2.37	3.51	4.63	5.72	7.47	10.75
28	2.49	3.69	4.86	6.01	7.86	11.34
30	2.67	3.96	5.23	6.46	8.47	12.25
31.75	2.83	4.20	5.54	6.86	9.00	13.04
32		4.23	5.59	6.92	9.07	13.15
33.4		4.42	5.84	7.23	9.50	13.79
34		4.50	5.95	7.37	9.68	14.06
35		4.64	6.13	7.60	9.98	14.52
38.1	3.40	5.06	6.70	8.30	10.92	15.92
39		5.18	6.86	8.51	11.19	16.33
40		5.32	7.04	8.73	11.49	16.78
41.3		5.50	7.28	9.03	11.88	17.37
42		5.59	7.40	9.19	12.10	17.69
45		6.00	7.95	9.87	13.00	19.05
45		6.00	7.95	9.87	13.00	19.05
48		6.41	8.49	10.55	13.91	20.41
50.8		6.79	9.00	11.18	14.76	21.68
57		7.63	10.12	12.59	16.63	24.49
60.3		8.08	10.72	13.34	17.63	25.99
63.5		8.52	11.30	14.06	18.60	27.44
73		9.81	13.03	16.22	21.47	31.75
76.2		10.25	13.61	16.94	22.44	33.20
80		10.76	14.30	17.80	23.59	34.93
82		11.10	14.66	18.26	24.19	35.83
88.9			15.91	19.82	26.28	38.96
95			17.02	21.21	28.12	41.73
101.6			18.22	22.70	30.12	44.72
108			19.38	24.15	32.05	47.63
114.3			20.52	25.58	33.96	50.49

S S OVAL & CAPSULE PIPE RANGE

Size (mm)	Thikness (mm) (weight kgs of 6.1 mtr length)					
	0.6	0.9	1.2	1.5	2	3
13 x 33	2.25	3.33	4.39	5.42	7.08	
15 x 35	2.49	3.69	4.86	6.01	7.86	
30 x 70		6.79	9.00	11.18	14.76	
40 x 100		10.25	13.61	16.94	22.44	33.20
54 x 109		11.89	15.80	19.69	26.10	38.69
55 x 110		11.89	15.80	19.69	26.10	38.69
55 x 95		10.25	13.61	16.94	22.44	33.20
58 x 111		11.89	15.80	19.69	26.10	38.69

S S RECTANGULAR PIPE RANGE

Size (mm)	Thikness (mm) (weight kgs of 6.1 mtr length)					
	0.6	0.9	1.2	1.5	2	3
8 x 16	1.306	1.92	2.50	3.06		
10 x 20	1.67	2.47	3.24	3.98	5.16	
10 x 25	1.94	2.87	3.77	4.65	6.05	
10 x 30	2.25	3.33	4.39	5.42	7.08	
10 x 40		4.20	5.54	6.86	9.00	
10 x 50		5.06	6.70	8.30	10.92	
10 x 60		6.00	7.95	9.87	13.00	
10 x 70		6.79	9.00	11.18	14.76	
12 x 25	2.25	3.33	4.39	5.42	7.08	
13 x 67		6.79	9.00	11.18	14.76	
15 x 30	2.486	3.69	4.86	6.01	7.86	
20 x 30	2.826	4.20	5.54	6.86	9.00	
20 x 40	3.402	5.06	6.70	8.30	10.92	
20 x 50		6.00	7.95	9.87	13.00	
20 x 60		6.79	9.00	11.18	14.76	
20 x 80		8.52	11.30	14.06	18.60	
23 x 52		6.41	8.49	10.55	13.91	
25 x 38		5.50	7.28	9.03	11.88	
25 x 50		6.41	8.49	10.55	13.91	
25 x 75		8.52	11.30	14.06	18.60	
25 x 95		10.25	13.61	16.94	22.44	
35 x 65		8.52	11.30	14.06	18.60	27.44
40 x 60		8.52	11.30	14.06	18.60	27.44
40 x 80		10.25	13.61	16.94	22.44	33.20
50 x 100		12.81	17.02	21.21	28.12	41.73
50 x 125		15.02	19.98	24.90	33.05	49.12
70 x 25		8.08	10.72	13.34	17.63	25.99
90 x 25		11.89	15.80	19.69	26.10	

S S SQUARE PIPE RANGE

Size (mm)	Thikness (mm) (weight kgs of 6.1 mtr length)					
	0.6	0.9	1.2	1.5	2	3
10 x 10	1.098	1.61	2.09	2.54		
12 x 12	1.385	2.04	2.66	3.26		
16 x 16	1.674	2.47	3.24	3.98	5.16	
18 x 18	2.032	3.01	3.96	4.88	6.35	
19 x 19	2.123	3.14	4.14	5.10	6.65	
20 x 20	2.25	3.33	4.39	5.42	7.08	10.16
25 x 25	2.826	4.20	5.54	6.86	9.00	13.04
30 x 30	3.402	5.06	6.70	8.30	10.92	15.92
32 x 32	3.665	5.46	7.22	8.96	11.79	17.37
38 x 38	4.3	6.41	8.49	10.55	13.91	20.55
40 x 40	4.554	6.79	9.00	11.18	14.76	21.68
50 x 50		8.52	11.30	14.06	18.60	27.44
60 x 60		10.25	13.61	16.94	22.44	33.20
72 x 72		12.30	16.35	20.37	27.00	40.14
80 x 80		13.68	18.18	22.66	30.06	44.72

S S TRIANGULAR PIPE

Size (mm)	Thikness (mm) (weight kgs of 6.1 mtr length)					
	0.6	0.9	1.2	1.5	2	3
80 x 35 x 10		8.52	11.30	14.06	18.60	27.44

STAINLESS STEEL - PIPES & TUBES

STAINLESS STEEL PIPE : DIMENSIONS AND WEIGHTS (Schedule, wall thickness & weight)

To ASTM A312 : Seamless and welded austenitic stainless steel pipe

Designation		O/D		Nominal Wall Thickness													
Of Diameter		D/A	SCH.5S		SCH.5		SCH.10S		SCH.10		SCH.20S		SCH.30		SCH.40S		SCH.40
(A)	(B)	Metter MM	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK
6	1/8	10.3	1.0	0.23			1.2	0.27			1.5	.33			1.73	0.37	
8	1/4	13.7	1.2	0.37			1.65	0.49			2.00	.58			2.24	0.64	
10	3/8	17.2	1.2	0.47			1.65	0.63			2.00	.74			2.31	0.87	
15	1/2	21.3	1.65	0.81	1.65	0.81	2.11	1.02	2.11	1.02	2.5	1.15			2.77	1.29	
20	3/4a	26.7	1.65	1.03	1.65	1.03	2.11	1.30	2.11	1.30	2.5	1.49			2.87	1.71	
25	1	33.4	1.65	1.31	1.65	1.31	2.77	2.13	2.77	2.13	3.00	2.24			3.38	2.54	
32	1 1/4	42.2	1.65	1.67	1.65	1.67	2.77	2.73	2.77	2.73	3.00	2.90			3.56	3.44	
40	1 1/2	48.3	1.65	1.93	1.65	1.93	2.77	3.16	2.77	3.16	3.00	3.35			3.68	4.11	
50	2	60.3	1.65	2.42	1.65	2.42	2.77	3.99	2.77	3.99	3.5	4.90			3.91	5.52	
65	2 1/2	73.0	2.11	3.75	2.11	3.75	3.05	5.34	3.05	5.34	3.5	6.00			5.16	8.77	
80	3	88.9	2.11	4.59	2.11	4.59	3.05	6.56	3.05	6.56	4.00	8.37			5.49	11.47	
90	3 1/2	101.6	2.11	5.25	2/11	5.25	3.05	7.53	3.05	7.53	4.00	9.62			5.74	13.78	
100	4	114.3	2.11	5.93	2.11	5.93	3.05	8.50	3.05	8.50	4.5	12.18			6.02	16.32	
125	5	141.3	2.77	9.61	2.77	9.61	3.40	11.74	3.40	11.74	5.00	16.80			6.55	22.10	
150	6	168.3	2.77	11.47	2.77	11.47	3.40	14.04	3.40	14.04	5.5	22.08			7.11	28.69	
200	8	219.1	2.77	15.00	2.77	15.00	3.76	20.77	3.76	20.27	6.35	33.82	7.04	37.38	8.18	43.20	
250	10	273.1	3.40	22.95	3.40	22.95	4.19	28.20	4.19	28.20	6.35	42.41	7.80	51.81	9.27	61.22	
300	12	323.9	3.96	31.72	4.19	33.60	4.57	36.54	4.57	36.54	6.35	50.48	8.38	66.20	9.53	75.01	10.31
350	14	355.9	3.96	34.86			4.78	41.99	6.35	55.53	7.92	68.95	9.53	82.58	9.53	82.58	11.13
400	16	406.4	4.19	42.20			4.78	48.07	6.35	63.61	7.92	79.03	9.53	94.70	9.53	94.70	12.70
450	18	457.2	4.19	47.46			4.78	54.15	6.35	71.69	7.92	89.10	11.13	124.32	9.53	106.83	14.27
500	20	508.0	4.78	60.23			5.54	69.70	6.35	79.76	9.53	118.93	12.70	157.51	9.53	118.9	15.06
550	22	558.8	4.78	65.95			5.54	76.75	6.35	87.84	9.53	131.07	12.70	173.66	9.53	131.07	15.88
600	24	609.6	5.54	83.80			6.35	95.92	6.35	95.92	9.53	143.20	14.27	212.72	9.53	143.20	17.45
650	26	660.4							7.92	129.40	12.70	205.97			9.53	155.32	
700	28	711.2							7.92	139.47	12.70	222.13	15.88	276.48	9.53	167.44	
750	30	762.0	6.35	120.15			7.92	149.55	7.92	149.55	12.70	238.28	15.88	296.68	9.53	179.56	
800	32	812.8							7.92	159.62	12.70	254.44	15.88	316.88	9.53	191.69	17.48
850	34	863.6							7.92	169.64	12.70	270.50	15.88	336.96	9.53	203.74	17.48
900	36	914.4							7.92	179.77	12.70	286.75	15.88	357.28	9.53	215.93	19.05

STAINLESS STEEL - PIPES & TUBES

STAINLESS STEEL PIPE : DIMENSIONS AND WEIGHTS (Contd)

To ASTM A312 : Seamless and welded austenitic stainless steel pipe

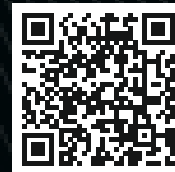
Nominal Wall Thickness																
	SCH.60		SCH.80S		SCH.80		SCH.100		SCH.120		SCH.140		SCH.160		SCH.XXS	
Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr
			2.41	0.47												
			3.02	0.82												
			3.20	1.12												
			3.73	1.64									4.75	1.97	7.47	2.59
			3.91	2.93									5.54	2.93	7.82	3.69
			4.55	3.29									6.35	4.30	9.09	5.53
			4.85	4.53									6.35	5.69	9.70	7.88
			5.08	5.49									7.14	7.35	10.16	9.69
			5.54	7.60									8.71	11.26	11.07	13.65
			7.01	11.59									9.53	15.15	14.02	20.72
			7.62	15.51									11.13	21.67	15.24	28.11
			8.08	18.92											16.15	34.56
			8.56	22.66					11.13	28.75			13.49	34.05	17.12	41.66
			9.53	31.44					12.70	40.90			15.88	49.87	19.05	58.31
			10.97	43.21					14.27	55.03			18.24	68.53	21.95	79.1
	10.81	53.90	12.70	65.63			15.06	76.93	18.24	91.73	20.62	102.47	23.01	112.97	22.23	108.00
	12.20	82.80	12.70	82.80	15.06	97.27	18.24	116.38	21.41	134.90	25.40	157.51	28.58	174.95	25.40	155.5
80.94	14.27	110.62	12.70	98.95	17.45	133.88	21.41	162.14	25.40	189.82	28.58	211.31	33.32	242.40	25.40	189.82
96.00	15.06	128.42	12.70	109.04	19.05	160.54	23.80	197.74	27.76	227.88	31.75	257.47	35.71	286.04		
125.20	16.66	162.59	12.70	125.20	21.41	206.40	26.19	249.34	30.94	290.88	36.53	338.32	40.46	370.74		
158.27	19.05	209.00	12.70	141.35	23.80	258.29	29.36	314.54	34.93	369.34	39.67	414.74	45.24	466.67		
185.89	20.62	251.65	12.70	157.51	26.19	315.97	32.54	387.41	38.10	448.30	44.45	515.94	49.99	573.31		
216.04	22.23	298.55	12.70	173.66	28.57	379.70	34.92	457.83	41.27	535.17	47.62	609.30	53.97	682.57		
258.74	24.59	360.21	12.70	189.82	30.94	448.30	38.89	555.76	46.02	649.44	52.37	730.72	59.51	819.70		
			12.70	205.97												
					12.70	222.13										
					12.70	238.28										
348.11					12.70	254.44										
370.22					12.70	270.50										
427.09					12.70	286.75										



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