



**SNB**   
STAINLESS STEEL PIPE & COILS



**SNB ENTERPRISES PVT. LTD.**

Manufacturers of Pipes, Cold Rolled Coils & Strips

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**Pipes | Coils | Strips**



RECOGNITION BRINGS MORE GRATIFICATION TO OUR ENDEAVORS



ISO 14001:2004



BS OHSAS 18001:2007



ISO 9001:2008



ISO 9001:2015

## PRODUCT RANGE

05-08

- Pipe
- Coil and Circle
- CTL

## PIPE WEIGHT CHART

09-10

- Round
- Square
- Rectangle

## COMPANY MACHINERY LIST

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## GRADES

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## CHART

14-16

- Weight Formula
- Flow Chart

## STANDARD APPLICATIONS

17-18

## SNB PLANT

19-20





## DELIVERING RESULTS, RELIABILITY & ROCKSOLID DEPENDABILITY

We are 20 year young leading Manufacturers of Welded Stainless Steel Tubes, Pipes, Stainless Steel Coils and Sheets, etc. We have a wide factory area of 8 acres. We are an ISO 9001:2008 certified company with an annual turnover of more than INR 400 Crores.

The company has carved its niche in the market with its technical expertise and in depth knowledge of the field. Reliability, authenticity and customer satisfaction are some of attributes that have won us goodwill among our valued clients. SNB ensures uninterrupted production capabilities throughout the year by having 2 Mega watt electricity backup.

We are one of the reputed SS Coils Manufacturers and Suppliers in India. Our Stainless Steel Coils are made available in Industry- Specific Grades such as 201, 202, 304, 304L, 316, 316L, 409.

We are acknowledged as one of the most reputed stainless steel Tube and Pipe Manufacturers and Exporters in the global Market. We maintain a stock of 1500 tonnes of tube for speedy delivery against the orders.

SNB vision is to be the world's stainless steel industry benchmark through the excellence of its people, its innovative approach and overall conduct. Underpinning this vision is a performance culture committed to aspiration targets, safety and social responsibility, continuous improvement, openness and transparency. Moreover there is total involvement of its employees in meeting the quality objectives as laid down in the company quality managements.

## REASONS TO BUY FROM SNB :

- Biggest pipe stock yard in the country.
- Largest range of sizes and thickness of pipes available in ready.
- Latest Machinery.
- Highest quality standards.
- Best known brand name in the country.





## Responsibility Begins At Home.

With climate change becoming a growing problem, there's never been a more important time to collectively become more aware of how we as individuals, corporations and businesses are affecting the planet. And to do our bit for the environment, we have built Haryana's biggest solar plant in sonipat. So while we serve our clients with perfection, we serve the mother nature too by generating and using solar energy.





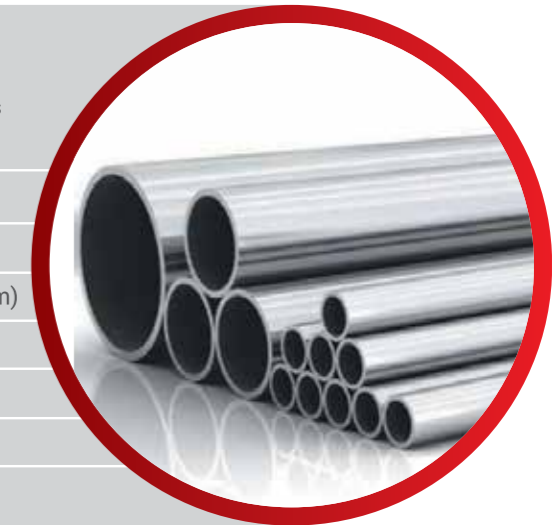


## PIPES

### Welded Stainless Steel Round Tubes/Pipes

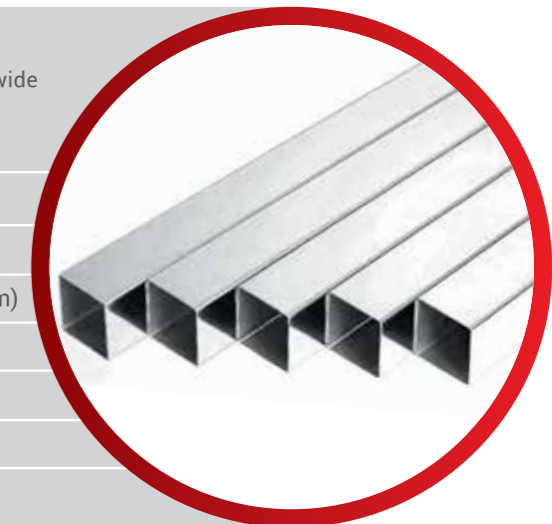
SNB is one of the most trusted manufacturer, exporter, stock holder and supplier of a qualitative range of welded stainless steel tubes/ pipes

<b>Outer Diameter</b>	9.52 mm - 127 mm
<b>Thickness</b>	0.48 mm - 3.00 mm
<b>Length</b>	As per customer's requirement (3m - 7m)
<b>Specification</b>	ASTM A554, A249
<b>Steel Grade</b>	202, 304, 304L, 316, 316L, 409
<b>Application</b>	Construction, Furniture etc
<b>Surface Finish</b>	Surface Finish



SNB is one of the leading manufacturers and exporters of a wide range of stainless steel square pipes.

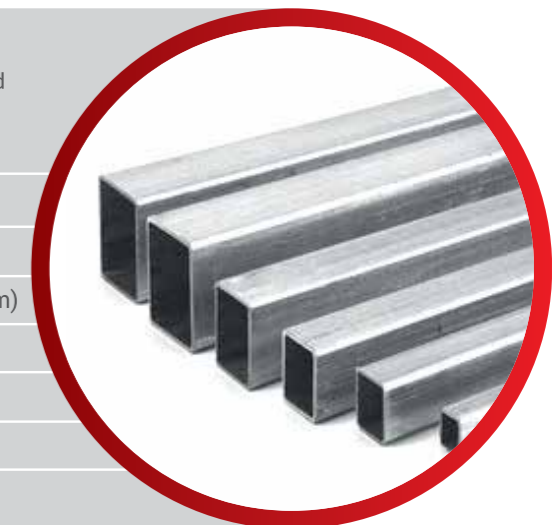
<b>Outer Diameter</b>	10 x 10 mm - 100 x 100 mm
<b>Thickness</b>	0.48 mm - 3.00 mm
<b>Length</b>	As per customer's requirement (3m - 7m)
<b>Specification</b>	ASTM A554, A249
<b>Steel Grade</b>	202, 304, 304L, 316, 316L, 409
<b>Application</b>	Construction, Furniture etc
<b>Surface Finish</b>	Surface Finish



### Stainless Steel Welded Rectangular Pipes

SNB is one of the distinguished manufacturers, suppliers and exporters of stainless steel rectangular pipes.

<b>Outer Diameter</b>	10x20 mm - 150x50 mm
<b>Thickness</b>	0.48 mm - 3.00 mm
<b>Length</b>	As per customer's requirement (3m - 7m)
<b>Specification</b>	ASTM A554, A249
<b>Steel Grade</b>	202, 304, 304L, 316, 316L, 409
<b>Application</b>	Construction, Furniture etc
<b>Surface Finish</b>	Surface Finish



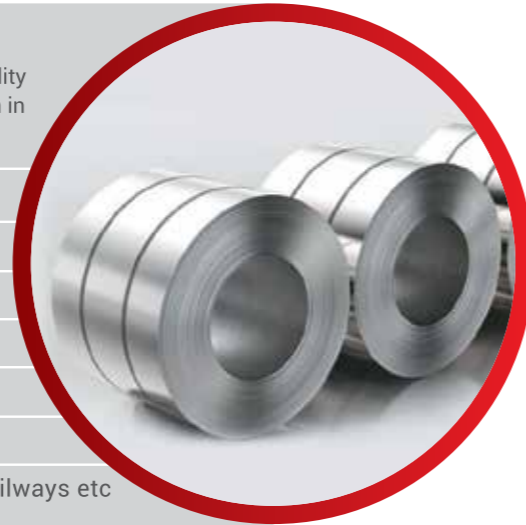


## COIL

### Stainless Steel Coils

We are occupied in the business of manufacturing premium quality stainless steel coils. The offered product finds a vast application in houseware, petroleum, automobile & electronic industries.

<b>Thickness</b>	0.10 mm - 3.9 mm
<b>Width</b>	650 mm
<b>Length</b>	As per customer's requirement
<b>Finish</b>	No. 1 / CR / 2D / 2B
<b>Steel Grade</b>	200 series, 300 series
<b>Specification</b>	ASTM A240
<b>Application</b>	Pipe manufacturing, Kitchenware & Railways etc

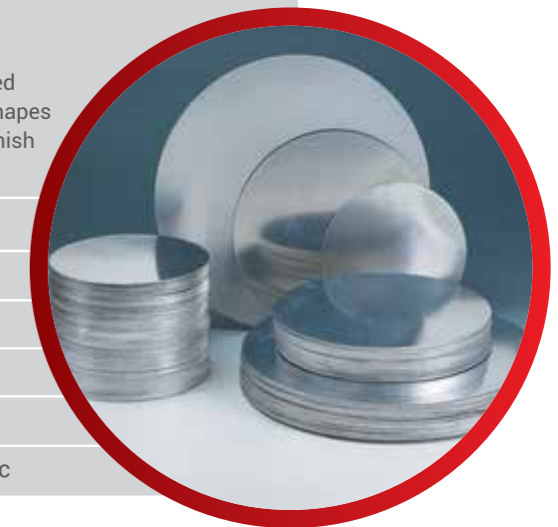


## CIRCLE

### Stainless Steel Circles

SNB offers a wide range of stainless steel circles that are in compliance with the industry standards. They are manufactured using high quality steel and are available in different grades, shapes and sizes. High tensile strength, corrosion resistant and fine finish are some of the attributes our stainless steel circle possess.

<b>Thickness</b>	0.10 mm - 1.5 mm
<b>Outer Diameter</b>	3 inch - 25 inch
<b>Surface Finish</b>	2B, No. 4 / CR / 2B / 2D
<b>Standard</b>	ASTM A240, DIN 1.4301
<b>Steel Grade</b>	200 series, 300 series
<b>Application</b>	Kitchen ware, Sanitary ware etc

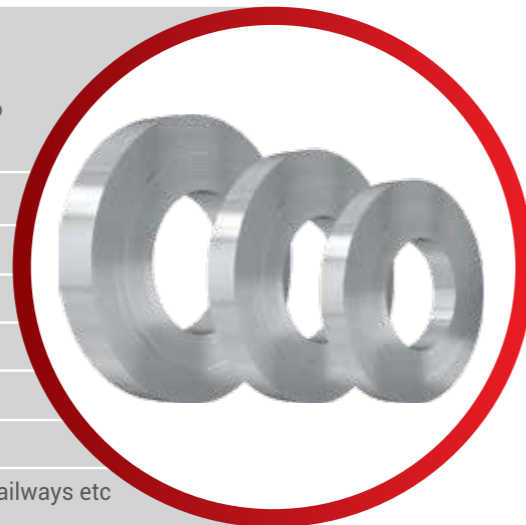


## SLIT

### Stainless Steel Slitted Coils

SNB has a recognised name in the industry for stainless steel slitted coils. We have the latest technology machinery to guarantee the edge quality of stainless steel slitted coils.

<b>Thickness</b>	0.10 mm - 3.9 mm
<b>Width</b>	20 mm - 650 mm
<b>Length</b>	As per customer's requirement
<b>Finish</b>	No. 1 / CR / 2D / 2B
<b>Steel Grade</b>	200 series, 300 series
<b>Specification</b>	ASTM A240
<b>Application</b>	Pipe Industries, Fabrication industries & Railways etc

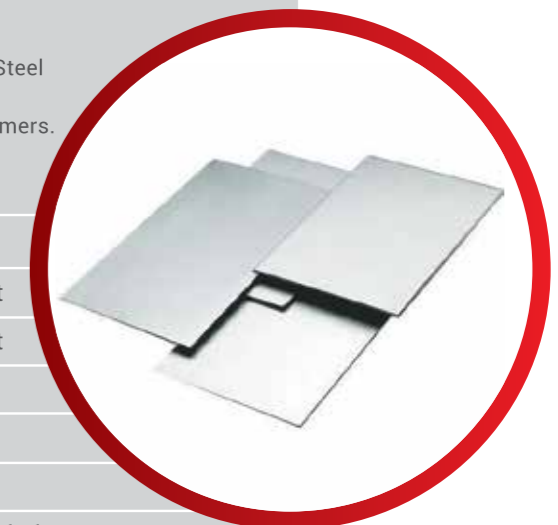


## CTL

### Stainless Steel Sheets

We manufacture and supply a wide range of stainless steel sheets which are used in various industries. SNB Stainless Steel Sheets are recognized in the global market for providing the most competitive, qualitative supply solution to all its customers. Some of the features of our products are-high durability, excellent finish, high strength and corrosion resistant

<b>Outer Diameter</b>	0.30 mm - 2.0 mm
<b>Width</b>	As per customer's requirement
<b>Length</b>	As per customer's requirement
<b>Specification</b>	No. 1 / CR / 2D / 2B
<b>Steel Grade</b>	200 series, 300 series
<b>Standard</b>	ASTM A240
<b>Application</b>	Gas Stove industry & fabrication industry etc





## ROUND PIPES

S. No.	Size		Wall thickness (Weight per 20 Feet)							
	inch	mm	0.48	0.58	0.68	0.78	0.90	1.20	1.45	2.00
1	3/8"	9.52	0.55	0.85	0.95	1.1	1.2	1.6	1.8	2.4
2	1/2"	12.70	0.91	1.1	1.3	1.5	1.6	2.2	2.5	3.3
3	5/8"	15.88	1.15	1.4	1.7	1.9	2.1	2.7	3.3	4.3
4	3/4"	19.05	1.40	1.7	2.0	2.3	2.5	3.3	4.0	5.2
5	7/8"	22.23	1.60	1.9	2.3	2.7	2.9	3.9	4.7	6.1
6	1"	25.40	1.90	2.3	2.7	3.0	3.4	4.5	5.4	7.2
7	1.25"	31.75	2.40	2.9	3.3	3.8	4.3	5.6	6.8	9.2
8	1.5"	38.10	2.80	3.4	4.1	4.5	5.1	6.6	8.1	11.1
9	2"	50.80	3.90	4.6	5.4	6.1	7.0	9.0	11.0	15.1
10	2.5"	63.50	4.60	5.8	6.8	7.7	8.7	11.5	13.8	18.9
11	3"	76.20	5.60	7.0	8.1	9.3	10.4	13.8	16.7	22.8
12	4"	101.60	7.70	9.3	10.8	12.4	13.9	18.5	22.3	30.6
13	5"	127.00	9.60	11.6	13.6	15.5	17.4	23.2	27.9	38.4

## SQUARE PIPES

S. No.	Size		Wall thickness (Weight per 20 Feet)							
	inch	mm	0.48	0.58	0.68	0.78	0.90	1.20	1.45	2.00
1	3/8"x3/8"	10x10	0.91	1.1	1.3	1.5	1.6	2.2	2.5	3.3
2	1/2"x1/2"	12x12	1.10	1.4	1.7	1.9	2.1	2.7	3.3	4.3
3	5/8"x5/8"	15x15	1.50	1.7	2.0	2.3	2.5	3.3	4.0	5.2
4	3/4"x3/4"	20x20	1.90	2.3	2.7	3.0	3.4	4.5	5.4	7.2
5	1"x1"	25x25	2.40	2.9	3.3	3.8	4.3	5.6	6.8	9.2
6	1.25"x1.25"	30x30	2.80	3.4	4.1	4.5	5.1	6.6	8.1	11.1
7	1.5"x1.5"	40x40	3.80	4.6	5.4	6.1	7.0	9.0	11.0	15.1
8	2"x2"	50x50	4.80	5.8	6.8	7.7	8.7	11.5	13.8	18.9
9	2.5"x2.5"	60x60	5.80	7.0	8.1	9.3	10.4	13.8	16.7	22.8
10	3"x3"	80x80	7.70	9.3	10.8	12.4	13.9	18.5	22.3	30.6
11	4"x4"	100x100	9.60	11.6	13.6	15.5	17.4	23.2	27.9	38.4

## RECTANGULAR PIPES

S. No.	Size		Wall thickness (Weight per 20 Feet)							
	inch	mm	0.48	0.58	0.68	0.78	0.90	1.20	1.45	2.00
1	1/2"x3/4"	10x20	1.40	1.7	2	2.3	2.5	3.3	4	5.2
2	1/2"x1"	13x26	1.90	2.3	2.7	3	3.4	4.5	5.4	7.2
3	1.25"x1/2"	30x10	1.90	2.3	2.7	3	3.4	4.5	5.4	7.2
4	1.5"x1/2"	40x10	2.40	2.9	3.3	3.8	4.3	5.6	6.8	9.2
5	3/4"x1.5"	20x40	2.80	3.4	4.1	4.5	5.1	6.6	8.1	11.1
6	2"x1/2"	50x10	2.80	3.4	4.1	4.5	5.1	6.6	8.1	11.1
7	1"x2"	25x50	3.60	4.4	5.1	5.8	6.5	8.7	10.4	14.2
8	2.5"x1.25"	65x35	4.80	5.8	6.8	7.7	8.7	11.5	13.8	18.9
9	2.5"x1.5"	60x40	4.80	5.8	6.8	7.7	8.7	11.5	13.8	18.9
10	3"x1"	75x25	4.80	5.8	6.8	7.7	8.7	11.5	13.8	18.9
11	3"x1.5"	80x40	5.80	7	8.1	9.3	10.4	13.8	16.7	22.8
12	4"x2"	105x55	9.60	11.6	13.6	15.5	17.4	23.2	27.9	38.4





## COIL PROCESSING MACHINES

1.	COLD ROLLING MACHINE	4HI	WIDTH RANGE 300-650 THICKNESS RANGE 0.50-5.00MM
2.	COLD ROLLING MACHINE	12HI	WIDTH RANGE 300-650 THICKNESS RANGE 0.10-2.80MM
3.	HR/CR AP LINE		WIDTH 200-650MM THICKNESS RANGE 0.2-5.00MM
4.	SLITTING LINE-1		WIDTH RANGE 750 THICKNESS RANGE 0.10-1.20MM
5.	SLITTING LINE-2		WIDTH RANGE 750 THICKNESS RANGE 0.30-2.00
6.	SLITTING LINE-3		WIDTH RANGE 1550MM THICKNESS RANGE 4.00MM
7.	BRIGHT ANNEALING LINE -1		WIDTH RANGE 200-650M THICKNESS 0.10-2.00MM
8.	BRIGHT ANNEALING LINE - 2		
9.	BRIGHT ANNEALING LINE - 3		
10.	CTL LINE - 1		
11.	CTL LINE - 2		
12.	CUTTING LINE - 1		
13.	CUTTING LINE - 2		
14.	SHOT BLASTING MACHINE		
15.	COIL BUILD UP LINE		

## TUBE / PIPE MAKING MACHINES

1.	HIGH FREQUENCY MILL 1	"1" INCHES	
2.	HIGH FREQUENCY MILL 2	"2" INCHES	
3.	HIGH FREQUENCY MILL 3	"3" INCHES	
4.	TIG MILL —	9NOS	
5.	END FACING MACHINE	2NOS	
6.	PIPE STRAIGHTING MACHINE	2NOS	
7.	POLISHING MACHINES	5NOS	10 HEAD ROUND PIPE
		4NOS	36 HEAD SQUARE PIPE
		1NOS	20 HEAD SQUARE PIPE

## 201, 202, 301, 304, 304L, 316, 316L, 321, 409, 409L

Stainless Steel Grades AISI	Main Characteristic	Typical Application/End Use
201	High cold work hardening rate, normal formability	Welded tubes, utensils, kitchen appliances, sinks, architecture building & construction, consumer durables
202	High cold work hardening rate good formability.	Water tubings, watch parts, foot rule, industrial knives, bus body accessories, kitchen appliances, kerosene and gas stove parts.
301	Attains high strength by being cold worked, while retaining good ductility.	Used in cold worked condition for springs and wear plates
304	Better welding characteristics with good formability and general corrosion resistance	Watch parts, engine gaskets, flexible hoses, foot rule, Door hinges, capillary tubings and sinks.
304L	Low carbon content, weldable and resistance to sensitisation. Good corrosion and oxidation resistance.	Hypodermic needles and capillary tubings.
316	Superior corrosion resistance to sea water and many chemicals and weldable.	Engine gaskets, flexible hoses, process plant and paper industry equipment.
316L	Low carbon content highly corrosion resistant, weldable and resistant to sensitisation.	Process plant parts particularly in thick sections.
321	Weldable and resistant to sensitisation good corrosion and oxidation resistance.	Heater elements, process plant, furnace parts and high temperature tubes.
409	Better Engineering Properties	Auto mobile Industry
409L	Better Engineering Properties	Auto mobile Industry



## ASTM SEPECIFICATION FOR STEEL TUBES & PIPES

Specification	Allowable outside Daimeter Variations in mm			Aloowable wall Thickness Variations		Exact Length Tolerances in mm		Testing
	Normal Diameter	Over	Under	Over %	Under %	Over %	Under %	
ASTM A-213 seamless boiler, Superheater and Heat Exchanger Tubes	Under 25.4 25.4-38.1 incl. 38.1-50.8 excl. 50.8-63.5 excl. 63.5-76.2 excl. 76.2-101.6 incl.	0.10 0.15 0.20 0.30 0.38 0.38	0.10 0.15 0.20 0.30 0.38 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, Superheater Heat exchanger and condenser Tubes	Diameter Under 25.4 25.4-38.1 incl. 38.1-50.8 excl. 50.8-63.5 excl. 63.5-76.2 excl. 76.2-101.6 incl.	0.10 0.15 0.20 0.25 0.30 0.36	0.10 0.15 0.20 0.25 0.30 0.36	+10 +10 +10 +10 +10 +10	-10 -10 -10 -10 -10 -10	3.17 3.17 3.17 4.76 4.76 7.76	0 0 0 0 0 0	Tension Test Flattening Test Flare Test/Flange Test *Reverse Bend Test Hardness Test *Reverse flattening Test Refer to ASTM A-450 *Wherever Applicable
ASTM A-269 Seamless & Welded Tubing for General Service	Under 12.7 12.7-38.1 excl. 38.1-88.9 excl. 88.9-139.7 excl. 139.7-203.2 excl.	0.13 0.13 0.25 0.38 0.76	0.13 0.13 0.25 0.38 0.76	+15 +10 +10 +10 +10	-15 -10 -10 -10 -10	3.2 3.2 4.8 4.8 4.8	0 0 0 0 0	Flare test Flange Test(welded Only) Hardness Test Flattening Test 100% Hydrostatic
ASTM A-270 seamless & Welded sanitary Tubing	25.4 38.1 50.8 63.5 76.2 101.6	.05 .05 .05 .05 .08 .08	.20 .20 .28 .28 .30 .30	+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 Pipe	13.70-48.3 incl. 48.3-114.3 incl. 114.3-220 incl.	0.40 0.79 1.60	0.79 0.79 0.79	Maximum wall 12.5% under nominal Wal Specifiedl		6.4 6.4 6.4	0 0 0	Tension Test Flattening Test 100% Hydrostatic Refer to ASTM A-530  (Normally Random Lengths ordered)
ASTM A-358 welded Pipe for High Temperature	For all size 5"NB & Above	+0.5%	-0.5%	-	-0.3 mm	Customers Specification		Gransvers Tension test Transverse guided bend test. Hydrostatic test. Radiographic penetrt (optional.)
ASTM A-554 Mechanical Steel Tubing	Upto 5" 127 mm	0.1 to 0.5	0.1 to 0.5	+10	-10%	1.6 to 4.88	0	As per customer Requirement
ASTM A-688 for Welded Feed Water heater 'U' Tubes	Under 25.4	0.1016	0.1016	+20	-0(for Min.0 Wall thk.)  +10 -10(for Avg. Wall thk.)	3 to 13	0	Tension, Hardness, corrosion, Reversebend. Flange, Flattening. Hydrostatic Test Pneumatic test, NON destructive Test

## PERMISSIBLE DEVIATIONS OF OUTSIDE DIAMETER AND WALL THICKNESS

Scope	Outside Diameter		Wall Thickness	
	ISO Tolerance class	Permissible deviation	ISO Tolerance class	Permissible deviation
Tube Manufacturing process outside diameter d mm				
Cold -fabricated	D2	+1.0%min.± 0.5mm	T3	+1.0%min.± 0.5mm
	D3	In special cases ±0.75%min.±0.3mm	T4	In special cases ±0.75%min.±0.3mm
	D4	±0.5%min.±0.1mm	T1	±0.5%min.±0.1mm
Hot-fabricated	D1	±1.5%min.±0.75mm	T1	±15%MIN.±0.6mm
	D2	in special cases: ±1.0%min.±0.5mm	T2	in special cases ±12.5%min.±0.4 mm.

## PERMISSIBLE DEVIATIONS OF OUTSIDE DIAMETER AND WALL THICKNESS

Nominal	Nominal Pipe Size	Outside Daimeter	Outside Daimeter							
			Sch. 5 S		Sch. 10 S		Sch. 40 S		Sch. 80 S	
1/2	15	21.34	1.65	0.812	2.11	1.014	2.77	1.286	2.77	1.286
3/4	20	26.67	1.65	1.032	2.11	1.296	2.87	1.708	2.87	1.708
1	25	33.40	1.65	1.310	2.77	2.121	3.38	2.537	3.38	2.537
1.1/4	32	42.16	1.65	1.671	2.77	2.728	3.56	3.435	3.56	3.435
1.1/2	40	48.26	1.65	1.923	2.77	3.150	3.68	4.101	3.68	4.101
2	50	60.33	1.65	2.421	2.77	3.986	3.91	5.515	3.91	5.515
2.1/2	65	73.03	2.11	3.741	3.05	5.336	5.16	8.755	5.16	8.755
3	80	88.90	2.11	4.578	3.05	6.546	5.49	11.448	5.49	11.448
3.1/2	90	101.60	2.11	5.248	3.05	7.514	5.74	13.756	5.74	13.756
4	100	114.30	2.11	5.918	3.05	8.483	6.02	16.296	6.02	16.296

## FORMULA

1.	Weight of SS Sheet, Plate Length (mtr) x Width (mtr) x Thickness (mm) x 8 = Wt. (Per Sheet)
2.	Weight of SS Pipes & Tubes (Kg), OD (mm) - Wall Thickness (mm) x Wall Thickness (mm) x 0.00756 = Wt. (Per Ft.)
3.	Weight of SS Round (Kg), Diameter (mm) x Diameter (mm) x 0.0019 = Wt. (Per Ft.)
4.	Weight of SS Hex (Kg), Diameter (mm) x Diameter (mm) x 0.002072 = Wt. (Per Ft.)
5.	Weight of SS Square (Kg), Diameter (mm) x Diameter (mm) x 0.0024 = Wt. (Per Ft.)
6.	Weight of SS Circle (Kg), Diameter (mm) x Diameter (mm) x Thickness x 0.0000063 = Wt. (Per PC)
7.	Weight of SS Flat (Kg), Width (mm) x Thickness (mm) x 0.00243 = Wt. (Per Ft.)

## TESTING & QUALITY ASSURANCE

- Eddy Current Test
- Hydrostatic/Pneumatic Pressure Test
- Elongation Test
- Flaring Test
- Ra Test
- Reverse Flattening Test



### Hardness Test

Vickers hardness test is to observe the questioned material's ability to resist plastic deformation from a standard source.

### Bending Test

This test is conducted to check the pressure holding capacity of a pipe without any leakage.



### Flattening Test

This test is conducted to check the strength of the welded section by subjecting it to extreme compression stress.



