

# **TIRUPATI STEEL**

**TIRUPATI STEEL** are a pioneer and established integrated, leading manufacturer of Stainless Steel for the last 11 years located at Hisar (Haryana) India, with marketing offices in Delhi.

The company has a state-of-art plant comprising of hi-tech, sophisticated manufacturing and testing facilities, backed by a team of professional engineers and technically skilled workforce dedicated to quality commitment and product innovation. It is fully equipped to meet the need of specific widths anywhere between 20 mm to 710 mm and thickness 0.10 mm to 4.00 mm. We are major supplier of raw materials to the SS Tube. In the World of Stainless Steel business Tirupati Steel is acclaimed to be recognized manufacturer of Stainless Steel pipes. What has started as a local business in 2006 has now grown into a industry leader. This has been made possible by continuous innovation and focused vision of the management.

Situated in the hub of the 'Stainless Steel City' Hisar (Haryana) provides an added advantage of abundant raw material supply.

With Quality as its imbibed attitude, the units have been ceaselessly striving towards "Total Quality Management". Customer satisfaction has been the group's prime concern right from the beginning and the company has been meeting all implied and stated need of its customers through their high precision, world-class products and on schedule production and delivery requirements.



# Typical Application

Grade	Characteristics	Typical Applications
301 Austenitic	Able to attain high strength and ductility through moderate or severe Cold Working.	<ul style="list-style-type: none"> <li>• Automobile items</li> <li>• Conveyer belts</li> <li>• Railway Coaches</li> <li>• Metal Fixtures for construction purposes</li> <li>• Roof drainage products</li> <li>• Door frames tableware etc</li> </ul>
304 Austenitic	Excellent corrosion resistance & forming characteristics.	<ul style="list-style-type: none"> <li>• Chemical, petrochemical and fertiliser industries and as an equipment in dairy</li> <li>• Food processing</li> <li>• Pharmaceutical Industries</li> <li>• Hospitals</li> <li>• Households as Kitchenware</li> <li>• Cryogenic</li> <li>• Vessels</li> <li>• Heat exchangers in Air conditioning</li> <li>• Refrigerator,</li> <li>• For machinery in paper, pulp, textile, beverage sector</li> <li>• Architectural applications as panels, curtain walls, roofing</li> </ul>
304L Austenitic	Low Carbon level (0.03 max.) Improved resistance to intergranular corrosion.	Used for parts and structures which can not be heat treated for stress relieving after welding less tendency to work hardening.
310S Austenitic	High Creep strength and mechanical properties at higher temperature	<ul style="list-style-type: none"> <li>• Air heaters annealing boxes</li> <li>• Ovens</li> <li>• Carburising boxes</li> <li>• Fire box sheets</li> <li>• Furnace lining</li> <li>• Furnace stacks, and dampers</li> <li>• Gas turbine parts</li> <li>• Heat exchangers</li> </ul>

		<ul style="list-style-type: none"> <li>• Kiln lining</li> <li>• Nozzle diaphragm assemblies for turbo jet engines</li> <li>• Oil burner parts</li> <li>• Paper mill equipment</li> <li>• Oil refinery equipment</li> <li>• Recuperators</li> </ul>
316 Austenitic	2-3% Mo which improves Austenitic corrosion resistance to halogens and imports hot strength characteristics resistance to pitting corrosion.	<ul style="list-style-type: none"> <li>• Architectural items</li> <li>• Marine exteriors</li> <li>• Chemical processing equipment</li> <li>• Food processing equipment</li> <li>• Petroleum refining equipment</li> <li>• Pharmaceutical equipments</li> <li>• Photographic equipment</li> <li>• Pulp and paper processing equipment</li> <li>• textile finishing equipment</li> </ul>
316L Austenitic	Reduced tendency towards carbide precipitation.	For parts which cannot be heat treated after welding.
321 Austenitic	Similar to 304 but tabilized with Titatnium to avoid intergranular corrosion. Resists sealing and vibration fatigue.	<ul style="list-style-type: none"> <li>• Air craft exhausts</li> <li>• Stacks and manifolds</li> <li>• Pressure vessels</li> <li>• Large mufflers for stationary diesel engines</li> <li>• Carburetors</li> <li>• Expansion bellows</li> <li>• Stack liners</li> <li>• Thin wall tubes</li> </ul>

## Specification

Chemical Composition													
	Grade	USA - Canada/ AISI - ASTM - ASME	% C (Max)	% Mn (Max)	% P (Max)	% S (Max)	% Si (Max)	% Cr	% Ni	% Mo	% N (Max)	% Cu (Max)	% Others
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	0.20	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	1.50	24.00 - 26.00	19.00 - 22.00	-	-	-	-
310S	310S	0.08	2.00	0.045	0.030	1.50	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 -	9.00 - 13.00	-	-	-	Cb = 10xC Min. 1.00 Max.

								19.00					
Ferritic + Martensitic	409	409	0.08	1.00	0.040	0.020	1.00	10.50 - 11.75	0.50 max.	-	0.03	-	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.	-	0.02	-	Ti = 5x(C+N)Min. 0.75 Max.
	409M	-	0.03	0.8 - 1.5	0.030	0.030	1.00	10.80 - 12.50	1.50 max	-	0.03	-	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	0.040	0.030	1.00	11.50 - 14.50	0.60	-	-	-	Al = 0.10 -0.30
	430	430	0.12	1.00	0.040	0.030	1.00	16.00 - 18.00	0.75 max.	-	-	-	-
	430TI	430TI	0.03	1.00	0.040	0.030	1.00	16.00 - 19.00	-	-	-	-	Ti = 0.10 -1.0
	436	436	0.12	1.00	0.040	0.030	1.00	16.00 - 18.00	-	0.75 - 1.25	-	-	Cb = 10xC Min. 0.80 Max.
Mart-Ensi-Tic	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	0.040	0.030	0.75	12.00 - 14.00	-	0.75 max.	-	-	-
Low Nickel Austenitic	JSL AUS (J1)	-	0.80	7.0 - 8.0	0.075	0.030	0.75	15.00 - 17.00	4.00 - 5.00	-	0.10	1.5	-
	J3	-	0.80	9.0 - 10.5	0.075	0.030	0.75	14.00 - 16.00	2.00 - 3.00	-	0.15	2.0	-
	J4	-	0.10	8.5 - 10.0	0.075	0.030	0.75	15.00 - 16.00	1.2 max.	-	0.20	2.0	-

		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 Designation	JAPAN / JIS	USSR / GOST	
Austenitic	301	515	205	40	217	95	X10Cr17Ni7	301	S30100	X12CrNi177	SUS301	-
	304	515	205	40	201	92	X04Cr19Ni9 X04Cr19Ni10	304SI/304s2	S30400	X5CrNi1810	SUS304	08Ch18N10
	304H	515	205	40	201	92	-	-	S30409	-	-	-
	304L	485	170	40	201	92	-	-	S30403	X2CrNi1911 G-X2CrNiN189	SUS304L SCS19	03Ch18N11
	304LN	515	205	40	201	92	-	-	S30453	X2CrNiN1810	SUS304LM	-
	309	515	205	40	217	92	X15Cr24Ni13	309	-	X15CrNiSi2012	SUS309	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	X5CrNiMo1722	SUS316	-
	316L	485	170	40	217	95	X02Cr17Ni12Mo2	316L	S31603	X2CrNiMo18143	SUS316L SCS16	3Ch17N14M3 3Ch16N15M3
	316LN	515	205	40	217	95	-	-	S31653	X2CrNiMoN17133	SUS316LN	-
	316Ti	515	205	35	217	95	X04Cr17Ni12Mo2Ti	S31635	316Ti	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	X6CrA13i	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	-	-	-
Mart-Ensi-Tic	420	690	-	15	217	96	X20Cr13 X30Cr13 X40Cr13	420S1 420S2 420S3	S42000	X20Cr13	SUS420J I	-
	JBS	-	-	-	-	-	-	-	-	-	-	-
Low Nickel Austenitic	JSL AUS (J1)	550	205	40	217	95	-	-	-	-	-	-
	J3	600	250	40	217	95	-	-	-	-	-	-
	J4	700	350	40	217	95	-	-	-	-	-	-

# TIRUPATI STEEL

## Tolerance on thickness

Thickness(mm)	Tolerance on Thicknes (+/-) for width (mm)			
	<250	<250 to <500	<500 to <1000	
0.05	0.15	0.005	0.005	-
0.15	0.25	0.015	0.020	-
0.25	0.40	0.030	0.040	0.040
0.40	0.60	0.040	0.040	0.050
0.60	0.80	0.050	0.060	0.070
0.80	1.00	0.060	0.070	0.080
1.00	1.25	0.070	0.080	0.080
1.25	1.50	0.080	0.090	0.100
1.50	2.00	0.090	0.110	0.120
2.00	2.50	0.100	0.120	0.150
2.50	3.00	0.120	0.150	0.200
3.00	4.00	0.150	0.170	0.200

# Grade Equivalent Table

British		German					
AISI	UNS					Swedish	Japanese
ASTM	No.					SS	JIS
Type	Bs	Eu	W.No.	DIN			
301	S30100	301S21	-	1.4310	X 12 CrNi 17 7	2331	SUS 301
302	S30200	302S25	58A	1.4300	X 12 CrNi 18 8	2346	SUS 302
303	S30300	303S21	58M	1.4305	X 12 CrNiS 18 8	-	SUS 303
303 Sc	S30323	303S41	58M	-	-	2332	SUS 303Sc
304	S30400	304S15	58E	1.4301	X 5 CrNi 18 9	2352	SUS 304
304 L	S30403	304S12	-	1.4306	X 2 CrNi 18 9	-	SUS 304L
304 N	S30451	-	-	-	-	-	SUS 304N1
302 HQ	S30430	-	-	1.4567	-	-	SUS XM7
305	S30500	305S19	-	1.4312	-	-	SUS 305
309 S	S30908	309S24	-	1.4833	X 7 CrNi 23 14	-	SUS 309 S
310	S31000	310S24	-	1.4841	X 12 CrNi 25 20	-	SUS 310
310 S	S31008	310S16	-	1.4845	X 12 CrNi 25 21	2361	SUS 310 S
	S31254	-	-	-	-	2378	-
314	S31400	-	-	1.4841	X 15 CrNi 25 20	-	-
316	S31600	316S16	58H,58J	1.4401	X 5 CrNiMo 18 10	2347	SUS 316
316 L	S31603	316S12	-	1.4404	X 2 CrNiMo 18 10	2348	SUS 316 L
316 N	S31651	-	-	1.4406	X 2 CrNiMoN 18 12	-	SUS 316 N
316 TI	S31635	320S17	-	1.4571	X 10 CrNiMoTi 18 10	2350	-
317	S31700	317S16	-	1.4449	X 5 CrNiMo 17 13	-	SUS 317
317 L	S31703	317S12	-	1.4438	X 2 CrNiMo 18 16	2367	SUS 317 L
321	S32100	32S12	58B,58C	1.4541	X 10 CrNiTi 18 9	2337	SUS 321
329	S32900	-	-	1.4460	X 8 CrNiMo 27 5	2324	SUS 329J1
347	S34700	347S17	58F, 58G	1.4550	X 10 CrNiNb 18 9	2338	SUS 347
348	S34800	347S18	-	1.4546	X 5 CrNiNb 18 10	-	-
384	S38400	-	-	-	-	-	SUS 384
403	S40300	403S17	-	1.4000	X 7 Cr 13<	-	SUS 403
405	S40500	405S17	-	1.4002	X 7 CrAl 13	2301	SUS 405



409	S40900	409S19	-	1.4512	X 5 CrTi 12	-	SUS 409
410	S41000	410S21	56A	1.4006	X 10 Cr 13	2302	SUS 410
416	S41600	416S21	56AM	1.4005	X 12 CrS 13	2380	SUS 416
416Se	S41623	-	-	-	-	-	-
420	S42000	420S37	56C	1.4021	X 20 Cr 13	2303	SUS 420J1
420F	S42020	-	-	-	-	-	SUS 420F
430	S43000	430S17	60	1.4016	X 8 Cr 17	2320	SUS 430
430F	S43020	-	-	1.4104	X 12 CrMoS 17	2383	SUS 430F
431	S43100	431S29	57	1.4057	X 22 CrNi 17	2321	SUS 431
434	S43400	434S17	-	1.4113	X 6 CrMo 17	-	SUS 434
440C	S44044	-	-	1.4125;	X 105 CrMo 17	-	SUS 440C
444	S44400	-	-	1.4521	X 2 CrMoTi 18 2	2326	SUS 444
630	S17400	-	-	1.4542	X 5 CrNiCuNb 17 4	-	SUS 630
631	S17700	-	-	1.4568	X 7 CrNiAl 17 7	2388	SUS 631
+	N08904	904S13	-	1.4539	X 1 NiCrMoCuN 25 20 5	2562	-
+	S30815	-	-	1.4893	-	2377	-
+	S31803	-	-	1.4462	X 2 CrNiMoN 22 5	2327	-
+	S32304	-	-	1.4362	-	2328	-
+	S32750	-	-	-	X 2 CrNiMoN 25 7 4	-	-
+	S34565	-	-	1.4565	X 2 CrNiMnMoN 24 17 6 4	-	-
+	S32760	-	-	1.4501	X 2 CrNiMoCuWN 25 7 4	-	-

# Stainless Steel Pipes Dimension (Schedule, Wall Thickness & Weight)

Designation of Diameter		O/D	Nominal Wall Thickness																	
(A)	(B)	DIA	SCH.5S		SCH.5		SCH.10S		SCH.10		SCH.20S		SCH.30		SCH.40S		SCH.40		SCH.60	
		Met er MM	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr	Wa ll Thk	Weig ht Kg/M tr
6	1/8	10.3	1	0.23			1.2	0.27			1.5	0.33			1.7	0.37				
8	1/4	13.7	1.2	0.37			1.6	0.49			2	0.58			2.2	0.64				
10	3/8	17.2	1.2	0.47			1.6	0.63			2	0.74			2.3	0.87				
15	1/2	21.3	1.6	0.01	1.6	0.81	2.1	1.02	2.1	1.02	2.5	1.15			2.7	1.29				
20	3/4	26.7	1.6	1.03	1.6	1.03	2.1	1.3	2.1	1.3	2.5	1.49			2.8	1.71				
25	1	33.4	1.6	1.31	1.6	1.31	2.7	2.13	2.7	2.13	3	2.24			3.3	2.54				
32	1 1/4	42.2	1.6	1.67	1.6	1.67	2.7	2.73	2.7	2.73	3	2.9			3.5	3.44				
40	1 1/2	48.3	1.6	1.93	1.6	1.93	2.7	3.16	2.7	3.16	3	3.35			3.6	4.11				
50	2	60.3	1.6	2.93	1.6	2.42	2.7	5.99	2.7	3.99	3.5	4.9			3.9	5.52				
65	2 1/2	73.1	2.1	3.75	2.1	2.75	3.0	5.34	3.0	5.34	3.5	6.5			5.1	8.77				
80	3	89.1	2.1	4.59	2.1	4.59	3.0	6.5	3.0	6.56	4	8.87			5.4	11.47				
90	3 1/2	101.6	2.1	5.25	2.1	5.25	3.0	7.53	3.0	7.53	4	9.62			5.7	13.78				
100	4	114.3	2.1	5.93	2.1	5.93	3.0	8.5	3.0	8.5	4.5	12.18			6.0	6.32				
125	5	141.3	2.7	9.61	2.7	9.61	3.4	11.74	3.4	11.74	5	16.8			6.5	22.10				
150	6	168.3	2.7	11.47	2.7	11.47	3.4	14.04	3.4	14.04	5.5	22.08			7.1	28.69				
200	8	219.1	2.7	15	2.7	15	3.7	20.77	3.7	20.27	6.3	33.82	7.04	37.38	8.1	43.2			10.8	53.9
250	10	273.1	3.4	22.95	3.4	22.95	4.1	28.2	4.1	28.2	6.3	42.41	7.8	51.81	9.2	61.22			12.2	82.8
300	12	323.9	3.9	31.72	4.1	33.6	4.5	36.54	4.5	36.54	6.3	50.48	8.38	66.2	9.5	75.01	10.3	80.94	14.2	110.6
350	14	355.6	3.9	34.86			4.7	41.99	6.3	55.53	7.9	68.95	9.53	82.58	9.5	82.58	11.1	96	15.0	128.4
400	16	406.4	4.1	42.2			4.7	48.07	6.3	63.61	7.9	79.03	9.53	94.7	9.5	94.7	12.7	125.2	16.6	162.5
450	18	457.2	4.1	47.46			4.7	54.15	6.3	71.69	7.9	89.1	11.1	124.3	9.5	106.8	14.2	158.2	19.0	209
500	2C	508	4.7	60.23			5.5	69.7	6.3	79.76	9.5	118.9	12.7	157.5	9.5	118.9	15.0	185.8	20.6	251.6
550	22	558.8	4.7	65.95			5.5	76.75	6.3	87.84	9.5	131.0	12.7	173.6	9.5	131.0	15.8	216.0	22.2	298.5
600	24	609.6	5.5	83.8			6.3	95.92	6.3	95.92	9.5	143.2	14.2	212.7	9.5	143.2	17.4	258.7	24.5	360.2

TIRUPATI STEEL

650	26	660.4						7.9 2	129.4	12.7	205.9 7			9.5 3	155.3 2				
700	28	711.2						7.9 2	139.4 7	12.7	222.1 3	15.8 8	276.4 8	9.5 3	167.4 4				
750	3C	762	6.3 5	120.1 5			7.9 2	149.5 5	7.9 2	149.5 5	12.7	238.2 8	15.8 8	296.6 8	9.5 3	179.5 6			
800	32	812.8						7.9 2	159.6 2	12.7	254.4 4	15.8 8	316.8 8	9.5 3	191.6 9	17.4 8	348.1 1		
850	34	863.6						7.9 2	169.6 4	12.7	270.5	15.8 8	336.9 6	9.5 3	203.7 4	17.4 8	370.2 2		
900	36	914.4						7.9 2	179.7 7	12.7	286.7 5	15.8 8	357.2 8	9.5 3	215.9 3	19.0 5	427.0 9		

Designation of Diameter		O/D	Nominal Wall Thickness														
(A)	(B)	DIA	SCH 80 S		SCH 80		SCH 100		SCH 120		SCH. 140		SCH.160		SCH.XXS		
		Meter 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	
6	1/8	10.3	2.41	0.47													
8	1/4	13.7	3.02	0.82													
10	3/8	17.2	3.2	1.12													
15	1/2	21.3	3.73	1.64										4.75	1.97	7.47	2.59
20	3/4	26.7	3.91	2.93										5.54	2.93	7.82	3.69
25	1	33.4	4.55	3.29										6.35	4.3	9.09	5.53
32	1 1/4	24.2	4.85	4.53										6.35	5.69	9.7	7.88
40	1 1/2	48.3	5.08	5.49										7.14	7.35	10.16	9.69
50	2	60.3	5.54	7.6										8.71	11.26	11.07	13.65
65	2 1/2	73	7.01	11.59										9.53	15.15	14.02	20.72
80	3	88.9	7.62	15.51										11.13	21.67	15.24	28.11
90	3 1/2	101.6	8.08	18.92												16.15	34.56
100	4	114.3	8.56	22.66					11.13	28.75				13.49	34.05	17.12	41.66
125	5	141.3	9.53	31.44					12.7	40.9				15.88	49.87	19.05	58.31
150	6	168.3	10.97	43.21					14.27	55.03				18.24	68.53	21.95	79.1
200	8	219.1	12.7	65.63			15.06	76.93	18.24	91.73	20.62	102.47		23.01	112.97	22.23	108
250	10	273.1	12.7	82.8	15.06	97.27	18.24	116.38	21.41	134.9	25.4	157.51	28.58	174.95	25.4	155.5	
300	12	323.9	12.7	98.95	17.45	133.88	21.41	162.14	25.4	189.82	28.58	211.31	33.32	242.4	25.4	189.82	
350	14	355.6	12.7	109.04	19.05	160.54	23.8	197.74	27.76	227.88	31.75	257.47	35.71	286.04			
400	16	406.4	12.7	125.2	21.41	206.4	26.19	249.34	30.94	290.88	36.53	338.32	40.46	370.74			
450	18	457.2	12.7	141.35	23.8	258.29	29.36	314.54	34.93	369.34	39.67	414.74	45.24	466.67			
500	2C	508	12.7	157.51	26.19	315.97	32.54	387.41	38.1	448.3	44.45	515.94	49.99	573.31			
550	22	558.8	12.7	173.66	28.57	379.7	34.92	457.83	41.27	535.17	47.62	609.3	53.97	682.57			
600	24	609.6	12.7	189.82	30.94	448.3	38.89	555.76	46.02	649.44	52.37	730.72	59.51	819.7			
650	26	660.4	12.7	205.97													
700	28	711.2			12.7	222.13											
750	3C	762			12.70	238.28											
800	32	812.8			12.7	254.44											
850	34	863.6			12.7	270.5											
900	36	914.4			12.7	286.75											

(24.66D-t) t  
1000  
Wt/pam + formula  
Weight Stainless Steel Pipe  
OD (mm) - W.T. (mm) XW.T. (mm) X 0.02466 = Kg. per mtr.