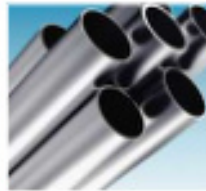




Excellent
Quality
Unic name



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Introduction

We are a professionally managed organisation having extensive experience in the field of all Ferrous & Non-Ferrous metals. Having more than two decades of experience and expertise, We have excellent sourcing network in India and across the world to supply of API 5L Pipes, CS Pipes, LTCS Pipes, AS Pipes, SS Pipes, DSS Pipes, SDSS Pipes, Nickel Alloy Pipes in form of Seamless / ERW / EFW / SAW size ranging from 1/4" to 60" in Schedules 5S through 160, STD, XS, XXS with a complementary range of Flanges, Butt Weld Fittings, Forged Steel Fittings, Olets, Fasteners, Sheets, Plates and Coils, Round Bars, etc. and act as your own procurement thereby saving your valuable time and resources.

We solicit from reputed Pipe mills to represent them & stock their products for resale to EPC Companies / Promoting Companies of the world's most advanced steel mills agent enable us to provide a single competitive source for the distribution of steel products worldwide, allowing us the flexibility to supply both mill sourced and ex-stock material.

Thanking you and assuring our best services at all times.

Why us ?

- Superior Quality Products
- Timely Delivery
- Proven Execution of Small as well as Large Batch Orders
- Customer Focused Approach

Application

- Oil & Gas • Desalination • Mineral & Mining Processing • Subsea • Energy • Petrochemical
- LNG • Nuclear • Power Plant • Pharmaceutical • Engineering • Cement Plant • Refinery Plant
- Shipbuilding • Sugar Industries • Beverage Industries • Paper & Pulp Mills • Steel & Power

PIPE & GRADE

**Special Wall Thick. & Special Dia
Pipes, Special API & Low Temp Grade,
Special Impact, SSC, HIC, SOHIC,
Test Pipe.**

API / Carbon Steel Pipes & Tubes

Specification : ASTM A106 Gr. B/C, ASTM A53 Gr. B,
API 5L Gr. B, ASME SA179, SA 192
Low Temp. : ASTM A333 / A334 Gr. 1 & Gr. 6
High Yield : API 5L - X42/ X46/ X52/ X56/ X65/ X70/ X80 -
PSL - 1 & PSL -2
Low Temp. : ASTM A671 & A672 in all Grade & Class
Form : SEAMLESS, SAW, EFSW, LSAW, ERW
Size : 1/8" to 26" in Seamless & 16 to 76" in Welded
Thickness : SCH 20 To SCH XXS & Higher Thickness Till
80MM THK

Alloy Steel Pipes & Tubes

Specification : ASTM A335 Gr. P1, P5, P9, P11, P12, P22, P91, P92
Tube : ASTM A213 GR. T1, T5, T9, T11, T12, T22, T91, T92
SAW / EFSW : ASTM A691
Size : 1/8" to 24" in Seamless & 16 to 76" in Welded
Thickness : SCH 20 to SCH XXS, & Higher Thickness Till
60MM THK

Stainless Steel / Duplex / Super Duplex Pipes & Tube

Specification : ASTM A213 / A249 / A269 /A312 / A358
Cl. I to V ASTM A789 / A790
Grades : 304/L/H, 310S/H, 316/L/H/Ti, 317/L, 321/H,
347/H, 904L, UNS S31803 / S32205 / S32750
/ S32760
Form : SEAMLESS, EFSW, ERW.
Size : 1/8" to 18" in Seamless & 1/2" to 60"
in Welded
Thickness : Sch 5S to Sch XXS & Higher Thickness Till
60 MM THK

Nickel Alloy Pipes, Tubes & Bars

Specification : ASTM B161 / 163 / 165 / 167 / 407 / 423 /444 /
464 / 619 / 626 / ASTM B668 / 677 / 729 / 829
Grades : Alloy 200/ 201/ 400 / 601 / 625 / 800/ 800(H)/
825/8020/ K-500/ 600/ C276 / C22 / C2000/
B2/ B3
Form : SEAMLESS, EFSW, ERW.
Size : 1/8" to 20"
Thickness : SCH 10S to SCH XXS

Type :- • Round • Square • Rectangle • Hydraulic

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2, IBR Test Certificate



PIPE DIMENSION

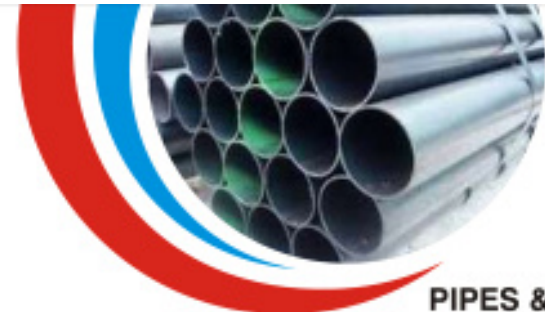
C.S. / A.S. / S.S. PIPES & TUBES SCHEDULE DIMENSIONS, WALL THICKNESS WT./MTR. (KG).

ANSI B 36.10 / ASME B 36.10 (2004)																			ANSI B 36.19 / ASME B 36.19 (2004)																		
Normal Pipe Size	Outside Dia.	Schedule 10	Schedule 20	Schedule 30	Schedule STD	Schedule 40	Schedule 60	Schedule XS	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	Schedule XXS	Schedule 5S	Schedule 10S	Schedule 40S	Schedule 60S																			
Inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm																			
1/4"	6				2.24	0.63		3.02	0.80							1.65	0.50	2.24	0.61																		
3/8"	10				2.31	0.84		3.20	1.10							1.65	0.64	2.31	1.12																		
1/2"	15				2.77	1.27		3.73	1.62							1.65	0.81	2.77	1.65																		
3/4"	20				2.87	1.69		3.91	2.20							1.65	1.03	2.87	1.71																		
1"	25				3.36	2.50		4.55	3.24							1.65	1.31	3.36	2.54																		
1 1/4"	32				3.56	3.39		4.85	4.47							1.65	1.68	3.56	3.44																		
1 1/2"	40				3.68	4.05		5.08	5.41							1.65	1.93	3.68	4.11																		
2"	50				3.91	5.44		5.54	7.48							1.65	2.42	3.91	5.52																		
2 1/2"	65				5.16	8.63		7.01	11.41							1.65	3.75	5.16	8.77																		
3"	80				5.49	11.29		7.62	15.27							1.65	4.59	5.49	11.47																		
3 1/2"	90				5.74	13.57		8.08	18.63							1.65	5.26	5.74	13.78																		
4"	100				6.02	16.06		8.56	22.32							1.65	5.93	6.02	16.32																		
5"	125				6.55	21.77		9.53	30.97							1.65	6.61	6.55	22.92																		
6"	150				7.11	26.26		10.97	42.56							1.65	7.48	7.11	28.70																		
8"	200				8.16	42.55		12.70	64.64							1.65	8.40	8.16	43.30																		
10"	250				9.27	60.29		12.70	81.53							1.65	9.49	9.27	48.28																		
12"	300				9.53	73.86		12.70	97.44							1.65	10.61	9.53	54.94																		
14"	350				9.53	81.33		12.70	107.40							1.65	11.86	9.53	62.70																		
16"	400				9.53	93.27		12.70	123.30							1.65	13.27	9.53	72.14																		
18"	450				9.53	105.17		12.70	139.16							1.65	14.83	9.53	82.55																		
20"	500				9.53	117.15		12.70	155.13							1.65	16.53	9.53	94.04																		
22"	550				9.53	129.14		12.70	171.10							1.65	18.37	9.53	106.68																		
24"	600				9.53	141.12		12.70	187.07							1.65	20.36	9.53	120.96																		
26"	650				9.53	152.88		12.70	203.04							1.65	22.50	9.53	136.96																		
28"	700				9.53	164.86		12.70	218.71							1.65	24.80	9.53	154.60																		
30"	750				9.53	176.85		12.70	234.68							1.65	27.26	9.53	173.68																		
32"	800				9.53	188.83		12.70	250.65							1.65	29.89	9.53	194.40																		
34"	850				9.53	200.82		12.70	266.63							1.65	32.69	9.53	216.80																		
36"	900				9.53	212.81		12.70	282.60							1.65	35.63	9.53	240.64																		

Formula :

Weight of Steel Pipes & Tubes : $OD(mm) \times W.T.(mm) \times 0.02466 = \text{kg per meter}$ Feet = meter + 3.281 All Dimension are in Kilograms & Meters

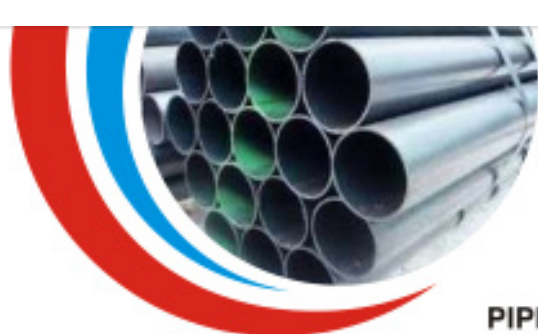
MATERIAL SPECIFICATION FOR PIPES & TUBES STAINLESS STEEL ALLOY STEEL, CARBON STEEL & MILD STEEL



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PIPES & TUBES ASTM / API / BS / DIN / IS

PIPE SPECIFICATION	CHEMICAL PROPERTIES						MECHANICAL PROPERTIES				OTHERS		
	C%	Mn%	P% (Max)	S% (Max)	Cr%	Ni%	Mo%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min)			
ASTMA 312 Gr. TP 304	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-11.0	-	515	205	35	25	-
ASTMA 312 Gr. TP 304L	0.035 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-13.0	-	485	170	35	25	-
ASTMA 312 Gr. TP 304H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-11.0	-	515	205	35	25	-
ASTMA 312 Gr. TP 304LN	0.035 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-12.0	-	515	205	35	25	N%=0.10-0.16
ASTMA 312 Gr. TP 309S	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	22.0-24.0	12.0-15.0	0.75 Max	515	205	35	25	-
ASTMA 312 Gr. TP 310S	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	24.0-26.0	19.0-22.0	0.75 Max	515	205	35	25	-
ASTMA 312 Gr. TP 316	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	11.0-14.0	2.00-3.00	515	205	35	25	-
ASTMA 312 Gr. TP 316L	0.035 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	10.0-14.0	2.00-3.00	485	170	35	25	-
ASTMA 312 Gr. TP 316H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	11.0-14.0	2.00-3.00	515	205	35	25	N%=0.10-0.15
ASTMA 312 Gr. TP 317	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	11.0-14.0	3.00-4.00	515	205	35	25	-
ASTMA 312 Gr. TP 317L	0.035 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	11.0-15.0	3.00-4.00	515	205	35	25	-
ASTMA 312 Gr. TP 321	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-12.0	-	515	205	35	25	TP%=(5XC)-0.70
ASTMA 312 Gr. TP 321H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-12.0	-	515	205	35	25	TP%=(4XC)-0.60
ASTMA 312 Gr. TP 347	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-13.0	-	515	205	35	25	Cb%=(10XC)-1.00
ASTMA 312 Gr. TP 347H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-13.0	-	515	205	35	25	Cb%=(8XC)-1.10
ASTMA 358 Gr. TP 304	0.080 Max	2.00 Max	0.045	0.030	0.75 Max	18.0-20.0	8.0-10.5	-	515	205	40		N%=0.10 Max, HRB=92 Max
ASTMA 358 Gr. TP 304L	0.035 Max	2.00 Max	0.045	0.030	0.75 Max	18.0-20.0	8.0-12.0	-	485	170	40		N%=0.10 Max, HRB=92 Max
ASTMA 358 Gr. TP 309S	0.080 Max	2.00 Max	0.045	0.030	0.75 Max	22.0-24.0	12.0-15.0	-	515	205	40		HRB=95 Max
ASTMA 358 Gr. TP 310S	0.080 Max	2.00 Max	0.045	0.030	1.50 Max	24.0-26.0	19.0-22.0	-	515	205	40		HRB=95 Max
ASTMA 358 Gr. TP 316	0.080 Max	2.00 Max	0.045	0.030	0.75 Max	16.0-18.0	10.0-14.0	2.00-3.00	515	205	40		N%=0.10 Max, HRB=95 Max
ASTMA 358 Gr. TP 316L	0.035 Max	2.00 Max	0.045	0.030	0.75 Max	16.0-18.0	10.0-14.0	2.00-3.00	485	170	40		N%=0.10 Max, HRB=95 Max
ASTMA 358 Gr. TP 321	0.080 Max	2.00 Max	0.045	0.030	0.75 Max	17.0-19.0	9.0-12.0	-	515	205	40		N%=0.10 Max, TP=(5XC)-H-0.70, HRB=95 Max
ASTMA 358 Gr. TP 347	0.080 Max	2.00 Max	0.045	0.030	0.75 Max	17.0-19.0	9.0-13.0	-	515	205	40		Cb%=(10XC)-1.00, HRB=92 Max
ASTMA A 106 Gr. A	0.25 Max	0.27-0.93	0.035	0.035	0.10 Min	0.40 Max	0.40 Max	0.15 Max	330	205	35	25	Cu%=0.40 Max, Va%: 0.08
ASTMA A 106 Gr. B	0.30 Max	0.29-1.06	0.035	0.035	0.10 Min	0.40 Max	0.40 Max	0.15 Max	415	240	30	16.5	Cu%=0.40 Max, Va%: 0.08
ASTMA A 106 Gr. C	0.35 Max	0.29-1.06	0.035	0.035	0.10 Min	0.40 Max	0.40 Max	0.15 Max	485	275	30	16.5	Cu%=0.40 Max, Va%: 0.08
ASTMA A 53 Gr. A	0.25 Max	0.95 Max	0.050	0.045	-	0.40 Max	0.40 Max	0.15 Max	330	205	30	16.5	Cu%=0.40 Max, Va%: 0.08
ASTMA A 53 Gr. B	0.30 Max	1.20 Max	0.050	0.045	-	0.40 Max	0.40 Max	0.15 Max	415	240	30	16.5	Cu%=0.40 Max, Va%: 0.08
ASTMA A 333 Gr. 1	0.30 Max	0.40-1.06	0.025	0.025	-	-	-	-	380	205	35	25	Impact Test= -45 °C, J=18 Min, HRB=85 Max
ASTMA A 333 Gr. 6	0.30 Max	0.29-1.06	0.025	0.025	0.10 Min	-	-	-	415	240	30	16.5	Impact Test= -45 °C, J=18 Min, HRB=85 Max
ASTMA A 335 Gr. P1	0.10-0.20	0.30-0.80	0.025	0.025	0.10-0.50	-	-	0.44-0.65	380	205	30	20	
ASTMA A 335 Gr. P2	0.10-0.20	0.30-0.61	0.025	0.025	0.10-0.30	0.50-0.81	-	0.44-0.65	380	205	30	20	
ASTMA A 335 Gr. P5	0.15 Max	0.30-0.60	0.025	0.025	0.50 Max	4.00-6.00	-	0.45-0.65	415	205	30	20	
ASTMA A 335 Gr. P9	0.15 Max	0.30-0.60	0.025	0.025	0.25-1.00	8.00-10.00	-	0.90-1.10	415	205	30	20	
ASTMA A 335 Gr. P11	0.05-0.15	0.30-0.60	0.025	0.025	0.50-1.00	1.00-1.50	-	0.44-0.65	415	205	30	20	
ASTMA A 335 Gr. P12	0.05-0.15	0.30-0.61	0.025	0.025	0.50 Max	0.80-1.25	-	0.44-0.65	415	220	30	20	
ASTMA A 335 Gr. P22	0.05-0.15	0.30-0.60	0.025	0.025	0.50 Max	1.90-2.60	-	0.87-1.13	415	205	30	20	
ASTMA A 335 Gr. P91	0.08-0.12	0.30-0.60	0.020	0.010	0.20-0.50	8.00-9.50	0.40 Max	0.85-1.05	620	440	20	-	Y%=0.18-0.25, N%=0.030-0.070, A%=0.02 Max, Cb%=0.06-0.10
API 5L Gr. A (PSL-1)	0.22 Max	0.90 Max	0.030	0.030					331 Min	207 Min	SI Unit e= 1944 A ¹⁰ / U ¹⁰		
API 5L Gr. B (PSL-1)	0.28 Max	1.20 Max	0.030	0.030					414 Min	241 Min			
API 5L Gr. X - 42 (PSL-1)	0.28 Max	1.30 Max	0.030	0.030					414 Min	290 Min			
API 5L Gr. X - 46 (PSL-1)	0.28 Max	1.40 Max	0.030	0.030					434 Min	317 Min			
API 5L Gr. X - 52 (PSL-1)	0.28 Max	1.40 Max	0.030	0.030					455 Min	359 Min			
API 5L Gr. X - 56 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					490 Min	396 Min			
API 5L Gr. X - 60 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					517 Min	414 Min			
API 5L Gr. X - 65 (PSL-1)	0.26 Max	1.45 Max	0.030	0.030					531 Min	448 Min			
API 5L Gr. X - 70 (PSL-1)	0.26 Max	1.65 Max	0.030	0.030					565 Min	483 Min			
API 5L Gr. X - 70 (PSL-1)	0.26 Max	1.65 Max	0.030	0.030					565 Min	483 Min			



PIPES & TUBES ASTM / API / BS / DIN / IS

API Pipes Material specification & Delivery Condition

PIPE SPECIFICATION	CHEMICAL PROPERTIES						MECHANICAL PROPERTIES			OTHERS		
	C%	Mn%	P% (Max)	S% (Max)	Si%	Cr%	Mo%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min)		OTHERS
										L	T	
API 5L Gr. B (PSL-2)	0.22 Max	1.20 Max	0.025	0.015				414-758	241-448			
API 5L Gr. X 42 (PSL-2)	0.22 Max	1.30 Max	0.025	0.015				414-758	290-498			
API 5L Gr. X - 46 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015				434-758	317-524			
API 5L Gr. X - 52 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015				455-758	359-531			
API 5L Gr. X - 56 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015				490-758	386-544			
API 5L Gr. X - 60 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015				517-758	414-565			
API 5L Gr. X - 65 (PSL-2)	0.22 Max	1.45 Max	0.025	0.015				531-758	448-565			
API 5L Gr. X - 70 (PSL-2)	0.22 Max	1.65 Max	0.025	0.015				565-758	483-565			
API 5L Gr. X - 80 (PSL-2)	0.22 Max	1.85 Max	0.025	0.015				621-827	552-690			

PSL	Delivery Condition	Pipe grade/steel grade a b	PSL	Delivery Condition	Pipe grade/steel grade a b	PSL	Delivery Condition	Pipe grade/steel grade a b														
PSL 1	As-rolled, normalizing rolled, normalized or normalizing formed	L175 or A25	PSL 2	As-rolled,	L245R or BR	PSL 2	Thermomechanical rolled or thermomechanical formed	L245M or BM														
		L175P or A25P			L290R or X42R			L290M or X42M														
	As-rolled, normalizing rolled, thermomechanical rolled, thermo mechanical formed, normalizing formed, normalized and tempered; or, if agreed, quenched and tempered for SMLS pipe only	L210 or A	Normalizing rolled, normalizing formed, normalized or normalized and tempered	L245 or BN	L320M or X46M																	
				L290N or X42N	L360M or X52M																	
				L320N or X42N	L390M or X56M																	
As-rolled, normalizing rolled, thermomechanical rolled, thermo mechanical formed, normalizing formed, normalized and tempered; or, if agreed, quenched and tempered	L245 or B	Quenched and tempered	L320N or X46N	L415M or X60M																		
			L360N or X52N	L450M or X 65M																		
			L390N or X56N	L485M or X70M																		
			L415N or X 60N	L555M or X80M																		
			L290 or X42	L625M or X90M																		
As-rolled, normalizing rolled, thermomechanical rolled, thermo mechanical formed, normalizing formed, normalized and tempered; or quenched and tempered	L290 or X42	L290Q or X42Q	L320Q or X46Q	L360Q or X52Q	L390Q or X56Q	L415Q or X60Q	L450Q or X65Q	L485Q or X70Q	L555Q or X80Q	L625M or X90M												
											L415 or X60	L450 or X65	L485 or X70	L690M or X100M								
															L415 or X60	L450 or X65	L485 or X70	L690M or X100M				
																			L415 or X60	L450 or X65	L485 or X70	L690M or X100M
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
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																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
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L415 or X60	L450 or X65	L485 or X70	L690M or X100M																			
				L415 or X60	L450 or X65	L485 or X70	L690M or X100M															
								L415 or X60	L450 or X65	L485 or X70	L690M or X100M											
												L415 or X60	L450 or X65	L485 or X70	L690M or X100M							
																L415 or X60	L450 or X65	L485 or X70	L690M or X100M			
L415 or X60	L450 or X65	L485 or X70	L690M																			

- a) For intermediate grades, the steel grade shall be in one of the following formats : (1) The letter L followed by the specified minimum yield strength in MPa and, for PSL 2 Pipe, the letter describing the delivery condition (R, N, Q or M) consistent with the above formats. (2) The letter X followed by a two or three digit number equal to the specified minimum yield strength in 1000 psi rounded down to the nearest integer and, for PSL 2 pipe, the letter describing the delivery condition (R, N, Q or M) consistent with the above formats.
- b) The suffix (R, N, Q or M) for PSL 2 grades belongs to the steel grade.
- c) Seamless only.

Buttweld Fittings

Specialist in : Alloy Steel Grade,
Carbon Steel Grade
(WPHY 52, WPHY 60, WPHY 65,
WPHY 70) & High Nickel Grade

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A403 WP 304/L/H/, 309H, 310S/H,
316/L/H, 317/H, 321/H, 347/H, 904L, 31254
Duplex & Super Duplex : ASTM A815 / 790 UNS NO S31803, S32205,
S32550, S32750, S32760, S32950

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 366 N02200, N02201
Monel : ASTM B366 N04400 / N05500
Inconel : ASTM B 366 N06600, N06601, N06617
ASTM B 366 N07718
ASTM B 366 N06625
Incoloy : ASTM B 366 N08800, N08810
ASTM B 366 N08825
ASTM B 366 N08020
Hastelloy : ASTM B 366 N10276, N06022
ASTM B 366 N10665
ASTM B 366 N06455

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A234 WP1, WP5, WP9, WP11, WP22,
WP91, WP92
Carbon Steel : ASTM A234 WPB, WPC / A420 WPL6, WPL3 /
ASTM A860 WPHY (Y42 / Y52 / Y56 / Y60 /
Y65 / Y70

Cupro Nickel

ASTM B 171 C70600 (90:10), ASTM B 171 C71500 (70:30)

Titanium

Commercially Pure : ASTM B 363
Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250
Alloys : ASTM B 363
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Size

Pipes : 1/2" NB TO 48" NB
Thickness : Sch 5S to Sch XXS, Special Thickness on Order
Type : Seamless / Welded / Fabricated
Standard : ASTM / BS / DIN / IS / MSS-SP

Types

- Stubend - (Long & Short)
- U Bend
- End Cap
- Laterals
- Crosses
- Collar
- Coupling,
- Customized Fittings
- Elbow (45 DEG, 90 DEG, 180 DEG)
- Tee - (Barred, Equal, Reducing)
- Reducer - (Concentric & Eccentric)
- Nipple - (Swage & Barrel)

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2, IBR Test Certificate

Forged / Tube Fittings

Specialist in : Hi-Nickel Fittings

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A182 F 304/L/H, 309S/H, 310S/H,
316/L/H, 317/L, 321/H, 347/H, 904L, 31254

Duplex & Super Duplex : ASTM A182 F51, F60, F53, F55

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201
Inconel : ASTM B 564 N06600, N06601, N06617
ASTM B 564 N07718
ASTM B 564 N06625
Incoloy : ASTM B 564 N08800, N08810
ASTM B 564 N08825
ASTM B 564 N08020
Hastelloy : ASTM B 564 N10276, N06022
ASTM B 564 N10665
ASTM B 564 N06455

Titanium

Commercially Pure : ASTM B 381
Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250

Alloys : ASTM B 381
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A182 F1, F5, F9, F11, F22, F91

Carbon Steel : ASTM A105 / ASTM A350 LF2, LF3 /
ASTM A694 F42, F52, F60, F65, F70

Cupro Nickel

ASTM B 171 C70600 (90:10),
ASTM B 171 C71500 (70:30)

Monel

ASTM B 564 N04400
DIN N05500

Size

Size : 1/2"NB to 4"NB (Socket Weld & Threaded)

Class : 2000#, 3000#, 6000#, 9000#, in ANSI B 16.11

Types

- | | | | |
|-----------------------|-----------|-------------|------------|
| • Elbow (45 & 90 Deg) | • Cap | • Weldolet | • Elbowlet |
| • Tee | • Plug | • Sockolet | • Letrolet |
| • Union | • Bushing | • Thredolet | • Swepolet |
| • Swage Nipple | • Boss | • Nipolet | • |

Test Certificate

Manufacturer Test Certification
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Flanges

**Specialist in : Alloy Steel Grade,
Carbon Steel Grade
(A694, F52, F60, F65, F70) &
High Nickel Grade**

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 182F - 304/304H/304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex &
Super Duplex : ASTM A 182 - F51, F53, F55

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201
Inconel : ASTM B 564 N06600, N06601, N06617
ASTM B 564 N07718
ASTM B 564 N06625
Incoloy : ASTM B 564 N08800, N08810
ASTM B 564 N08825
ASTM B 564 N08020
Hastelloy : ASTM B 564 N10276, N06022
ASTM B 564 N10665
ASTM B 564 N06455

Titanium

Commercially
Pure : ASTM B 861, 862, 338 Gr.1 R 56250 (CP4)
Gr.2 R 50400 (CP3) Gr.3 R 50550 (CP2)
Gr.4 R 50700 (CP1) Gr.7 R 52400
Gr.11 R 52250
Alloys : ASTM B 861, 862, 338 Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A182 F1, F5, F9, F11, F22, F91
Carbon Steel : ASTM A105 / ASTM A350 LF2, LF3 /
ASTM A694 F42, F52, F60, F65, F70
Other Service : Hot Dip Galvanizing, Sand Blasting

Cupro Nickel

ASTM B 171 C70600 (90:10),
ASTM B 171 C71500 (70:30)

Monel

ASTM B 564 N04400
DIN N05500

Size

1/2" NB TO 48" MN

Class

150 LBS, 300 LBS, 600 LBS, 900 LBS, 1500 LBS, 2500 LBS

Face

Raised Face (RF), Flat Face (FF), Ring-Type Joint (RTJ), Tongue and Groove (T&G), Male and Female (M&F)

Standard

ASTM / BS / DIN / IS / MSS-SP

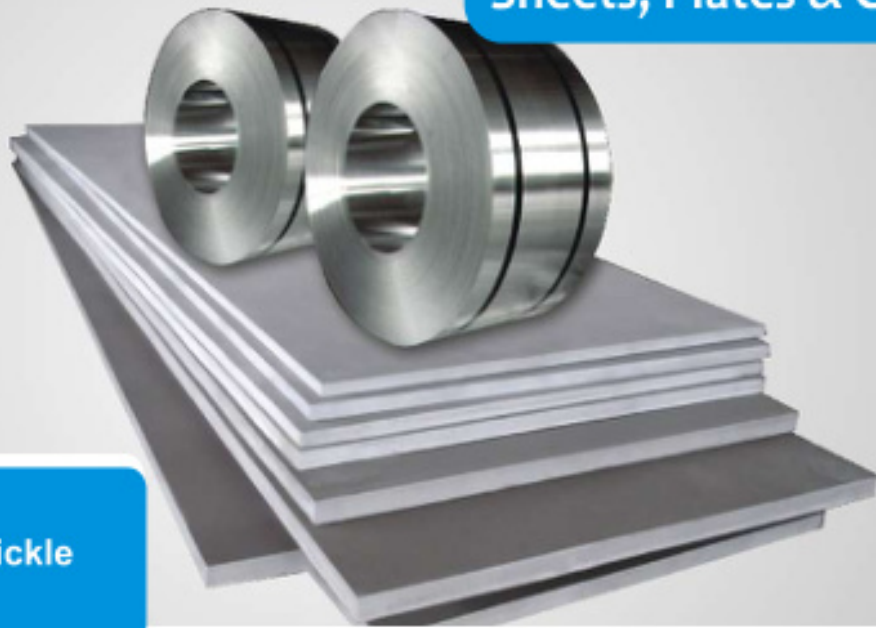
Types

- Slip on
- Socket Weld
- Orifice
- Long Weld Neck
- Weld Neck
- Threaded
- Spectacle
- Blind
- Long Joint
- Ring Joint

Test Certificate

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Sheets, Plates & Coils



Specialist in :
Hardox Plate, Hi-Nickle
& Titanium plate

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A240 304/304L/316/316L/316Ti/
309/310/317/317L/321/347/409/410/
430/904L/SMO 254 / AL6XN

Duplex & Super Duplex : Standard
ASTM A240 - UNS S31803/S32205 (2205)
Super Duplex
ASTM A240 - UNS S32750 (2507)
ASTM A240 - UNS S32760 (Zeron 100)

Quenched & Tempered

ASTM A537 CL.1 & 2

Boiler Quality

SA 516 Gr. 70

Hardox

Hardox 400 / 500

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B162 N02200, N02201

Inconel : ASTM B 168 N06600, N06601, N06617
ASTM B 670 N07718
ASTM B 443 N06625

Incoloy : ASTM B 409 N08800, N08810
ASTM B 424 N08825
ASTM B 462 N08020

Hastelloy : ASTM B 575 N10276, N06022
ASTM B 333 N10665

Titanium

Commercially Pure : ASTM B 265
Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250

Alloys : ASTM B 265
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Alloy Steel, Carbon Steel / Mild Steel

Alloy Steel Pipe : ASTM A387 Gr. 11, 12, 22, 5, 91 (CL 1/2)

Carbon Steel : ASTM A 36
S275 JR
IS 2062 Gr. A/B

Aluminium

ASTM B 928
5083 (A95083), 5086 (A95086),
5052 (A95052) T6061 (A96061)

Spring Steel Coils

CR C55, C80, C62, C45

Cupro Nickel

ASTM B171 C70600 (90:10), C71500 (70:30)

Monel

ASTM B127 N04400, DIN N05500

Size

Sheets : 0.8mm to 4mm thk. in 1000 upto 2000 mm Width
& 2000 upto 6000 Length

Plates : 5mm to 100 mm thk. in 1000 upto 2000 mm Width
& 2000 upto 8000 Length

Coils : 0.1 mm thk. to 12mm thk. in 10mm upto 1500 Width

Foils : 0.01 mm thk. to 0.3 mm thk. in any width

Strips : 1mm thk. to 100 mm thk. in 10 mm upto 900 mm Width
& 1000 upto 6000 Length

Finish

HR No.1, 2B, BA, Matt, Matt+1 side PVC, BA + 1side PVC, Chequered

Test Certificate

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Round Bars, Angle-Channel & Fasteners



ROUND BAR

Stainless Steel Bars : as per ASTM A276, A314, A582, A582, A479 & A 484 Gr. TP 304, 304L, 304H, 304LN, 309, 309S, 309H, 310S, 310H, 316, 316H, 316LN, 316Ti, 317, 317L, 321, 321H, 347, 347H, 348, 348H, 409, 410, 420, 430, 440 etc.

Alloy Steel Bars : as per ASTM A 182 Gr. F1, F2, F5, F9, F11, F12, F22, F91 etc.

Carbon Steel Bars : as per ASTM A 105 & IS 2062 Gr. A & B.

Nickel Alloy : Inconel 600/625 Incoloy 800/825, Monel Hastelloy C-276, C-22, B-2 Alloy - 20, Alloy - 904L, Titanium etc.

Size : 0.5mm Dia to 500mm Dia.

Finish : Bright, Black, Polish

Type : Round, Squar, Hex, Rectangle, Flat, Bar, Wire, Wire mesh.

FASTENERS

Stainless Steel : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.

Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9, & 12.9, B7, B7M, 2H, 'R', 'S', 't', Conditions.

Carbon Steel : Bare Condition, Galvanized, Phosphetised, Cadmium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated, etc.

Others : Monel, Nickel, Inconel, Hastalloy, Duplex and Super Duplex Steel, Titanium, Copper, Brass, Bronze, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, etc

Type : Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Head Screw, Fine Fasteners & Spares, Foundation Fasteners, etc.

Size : M10 To M100, Length Upto 5 Meters.

ANGLE / CHANNEL

Stainless Steel : SA 240 TP 304/304L/304H/316/316L/316Ti/317/317L/321/309/310/347/904L etc.

Nickel Alloy : Inconel 600/625 Incoloy 800/825, Monel Hastelloy C-276, C-22, B-2, Alloy - 904L, Alloy Steel, Brass, Titanium, Aluminium etc.

Mild Steel : IS 2062 Gr. A, B & C

Type : Angle, Channel, Beam, Flats, Circle, Ring etc.

Types

Round

Square

Hex (A/F)

Rectangle

Test Certificate

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