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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 DIMNESION

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)									
Nominal 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 80S						
Inch	mm	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	mm	kg/m	mm	kg/m	mm					
1/4"	6			2.24	0.63	2.24		3.02	0.80							1.65	0.50	2.24	0.64					
3/8"	10			2.31	0.84	2.31		3.20	1.10							1.65	0.64	2.31	0.86					
1/2"	15			2.77	1.27	2.77		3.73	1.62				4.78	1.95	7.47	2.55	1.02	2.77	1.29					
3/4"	20			2.87	1.69	2.87		3.91	2.20				5.56	2.90	7.82	3.64	1.30	2.87	1.71					
1"	25			3.38	2.50	3.38		4.55	3.24				6.35	4.24	9.09	5.45	2.13	3.38	2.54					
1 1/4"	32				3.39	3.56		4.85	4.47				6.35	5.61	9.70	7.77	2.77	3.56	3.44					
1 1/2"	40				4.05	3.68		5.08	5.41				7.14	7.25	10.15	9.55	3.16	3.68	4.11					
2"	50				5.44	3.91		5.54	7.48				8.74	11.11	11.07	13.44	3.99	3.91	5.52					
2 1/2"	65				8.63	5.16		7.01	11.41				9.53	14.92	14.02	20.39	5.35	5.16	8.77					
3"	80				11.29	5.49		7.62	15.27				11.13	21.35	15.24	27.68	6.56	5.49	11.47					
3 1/2"	90				13.57	5.74		8.08	18.63							2.11	7.53	5.74	13.78					
4"	100				16.08	6.02		8.56	22.32		11.13	28.32	13.49	33.54	17.12	41.03	8.50	6.02	16.32					
5"	125				21.77	6.55		9.53	30.97		12.70	40.28	15.88	49.12	19.05	57.43	11.74	6.55	22.10					
6"	150				28.26	7.11		10.97	42.56		14.27	54.21	18.26	67.57	21.95	79.22	14.04	7.11	28.70					
8"	200				36.82	8.18		10.31	53.09	15.09	18.26	90.44	20.62	100.93	23.01	111.27	3.80	20.12	43.20					
10"	250				7.80	9.27	60.31	12.70	81.53	18.26	114.71	21.44	133.01	25.40	155.10	3.40	22.95	4.19	61.22					
12"	300				8.38	65.19	79.71	14.27	108.93	21.44	159.87	25.40	186.92	28.58	208.08	33.32	31.71	4.57	36.53					
14"	350				9.53	81.33	94.55	15.09	126.72	23.83	194.98	31.75	253.58	35.71	281.72		4.78	41.99	9.53					
16"	400				9.53	93.27	123.31	16.66	160.13	26.19	245.57	30.96	286.66	36.53	333.21	40.49	48.07	9.53	94.61					
18"	450				11.13	122.38	155.81	19.05	205.75	29.36	309.64	34.93	363.58	39.67	408.28	45.24	54.15	9.53	106.83					
20"	500				12.70	155.13	183.43	20.62	247.84	32.54	381.55	44.45	564.85			50.01	69.70	9.53	118.95					
22"	550				12.70	171.10		22.23	294.27	34.93	451.45	47.63	600.67	53.90	672.30		5.54	76.75	131.07					
24"	600				14.27	255.43	141.12	24.61	355.28	38.89	547.74	52.37	720.19	59.54	808.27		6.35	95.92	143.20					
26"	650																							
28"	700																							
30"	750																							
32"	800																							
34"	850																							
36"	900																							

Formula :

Weight of Steel Pipes & Tubes : OD(mm) - W.T.(mm) x W.T.(mm) x 0.02466 = kg per meter Feet = meter + 3.281 All Dimension are in Kilograms & Meters

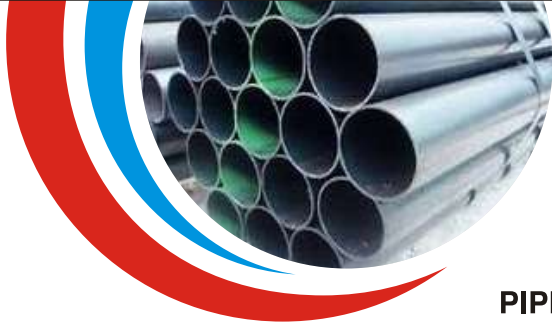
MATERIAL SPECIFICATION FOR PIPES & TUBES STAINLESS STEEL ALLOY STEEL, CARBON STEEL & MILD STEEL

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



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PIPE SPECIFICATION	CHEMICAL PROPERTIES						MECHANICAL PROPERTIES				OTHERS	
	C%	Mn%	P%	S%	Si%	Cr%	Ni%	Mo%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min)	OTHERS
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	-
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	-
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	-
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	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	-
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	-
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	-
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	-
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	-
ASTMA 312 Gr. TP 316LN	0.035 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	N%=0.10-0.16
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	-
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	-
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	Ti%=(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	Ti%=(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	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	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, Ti%≤5(C+N)-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
ASTM 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	Cu%:0.40 Max, Va%: 0.08
ASTM 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	Cu%:0.40 Max, Va%: 0.08
ASTM 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	Cu%:0.40 Max, Va%: 0.08
ASTM 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	Cu%:0.40 Max, Va%: 0.08
ASTM 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	Cu%:0.40 Max, Va%: 0.08
ASTM A 333 Gr. 1	0.30 Max	0.40-1.06	0.025	0.025	-	-	-	-	380	205	35	Impact Test= -45 °C, J=18 Min, HRB=85 Max
ASTM A 333 Gr. 6	0.30 Max	0.29-1.06	0.025	0.025	0.10 Min	-	-	-	415	240	30	Impact Test= -45 °C, J=18 Min, HRB=85 Max
ASTM 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	
ASTM 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	
ASTM 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	
ASTM 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	
ASTM 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	
ASTM 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	
ASTM 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	
ASTM 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	V%=0.18-0.25, N%=0.030-0.070, Al%=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 ^{0.2} / U ^{0.9}	SMLS C% .22 Max
API 5L Gr. B (PSL-1)	0.26 Max	1.20 Max	0.030	0.030					414 Min	241 Min		SMLS C% .28 Max
API 5L Gr. X - 42 (PSL-1)	0.26 Max	1.30 Max	0.030	0.030					414 Min	290 Min		SMLS C% .28 Max
API 5L Gr. X - 46 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					434 Min	317 Min		SMLS C% .28 Max
API 5L Gr. X - 52 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					455 Min	359 Min		SMLS C% .28 Max
API 5L Gr. X - 56 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					490 Min	386 Min		SMLS C% .28 Max
API 5L Gr. X - 60 (PSL-1)	0.26 Max	1.40 Max	0.030	0.030					517 Min	414 Min		SMLS C% .28 Max
API 5L Gr. X - 65 (PSL-1)	0.26 Max	1.45 Max	0.030	0.030					531 Min	448 Min		SMLS C% .28 Max
API 5L Gr. X - 70 (PSL-1)	0.26 Max	1.65 Max	0.030	0.030					565 Min	483 Min		SMLS C% .28 Max
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)	Cr%	Mo%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min)			
									L	T		
									C.E.			
									IMPACT ENERGY			
									PCM	IIW	J	FT/LB
API 5L Gr. B (PSL-2)	0.22 Max	1.20 Max	0.025	0.015			414-758	241-448	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X 42 (PSL-2)	0.22 Max	1.30 Max	0.025	0.015			414-758	290-496	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 46 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015			434-758	317-524	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 52 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015			455-758	359-531	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 56 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015			490-758	386-544	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 60 (PSL-2)	0.22 Max	1.40 Max	0.025	0.015			517-758	414-565	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 65 (PSL-2)	0.22 Max	1.45 Max	0.025	0.015			531-758	448-565	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 70 (PSL-2)	0.22 Max	1.65 Max	0.025	0.015			565-758	483-565	0.25	0.43	T/L 27/41	T/L 20/30
API 5L Gr. X - 80 (PSL-2)	0.22 Max	1.85 Max	0.025	0.015			621-827	552-690	0.25	0.43	T/L 27/41	T/L 20/30

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	Thermomechanical rolled or thermomechanical formed	PSL 2	L245M or BM						
		L175P or A25P			L290R or X42R				L290M or X42M					
		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				
	L320N or X46N											L415M or X60M		
	L360N or X52N												L450M or X 65M	
	L390N or X56N													L485M or X70M
	L415N or X 60N													
	As-rolled, normalizing rolled, thermomechanical rolled, thermo mechanical formed, normalizing formed, normalized and tempered; or, if agreed, quenched and tempered for SMLS pipe only	Quenched and tempered		L290 or X42	Thermomechanical rolled					L625M or X90M				
L320 or X46			L690M or X100M											
L360 or X52				L830M or X120M										
L390 or X56														
L415 or X60														
L450 or X65														
L485 or X70														

- 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 NO4400 / NO5500

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 : ASTM B 363

Pure 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)
Gr12 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)
- Tee
- Union
- Swage Nipple
- Cap
- Plug
- Bushing
- Boss
- Weldolet
- Sockolet
- Thredolet
- Nipolet
- Elbowlet
- Letrolet
- Swepolet
-

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2, IBR Test Certificate

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

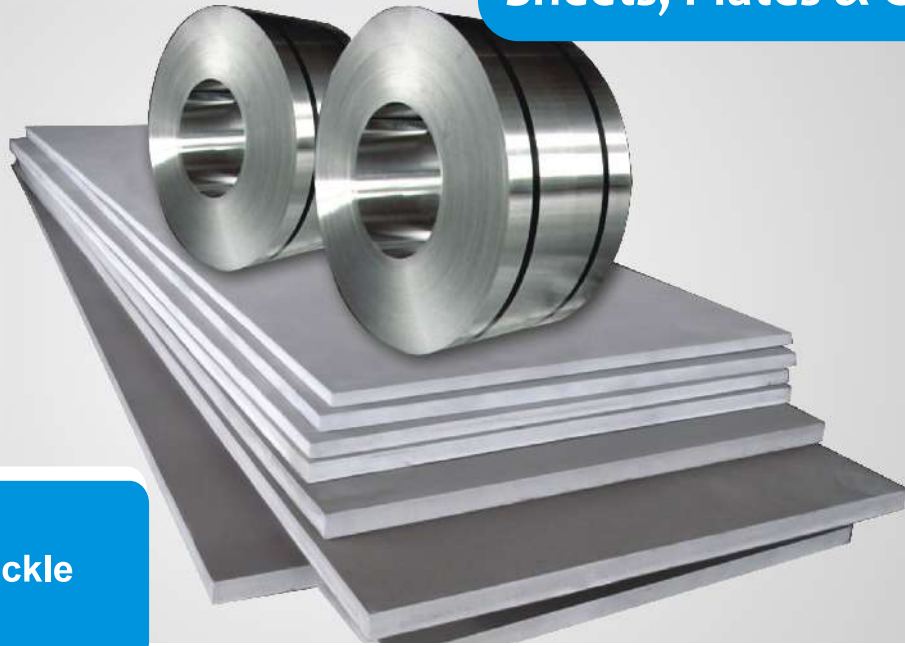
ASTM / BS / DIN / IS / MSS-SP

Types

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

Test Certificate

**Manufacturer Test Certification
En 3.1 & 3.2, IBR Test Certificate**



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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En 3.1 & 3.2, IBR Test Certificate

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, Cadum 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

Manufacturer Test Certification
En 3.1 & 3.2, IBR Test Certificate

THIRD PARTY INSPECTION

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WHEN YOU NEED TO BE SURE



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Visual & Dimension Insp.
Air under pressure test
PMI Test
Tensile Test
Micro structure Analysis
Dye Penetrate Test
Hardness Testing
Flaring & Flange Test
Flattening
Reverse Bending
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SSC
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Industries We Serve



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