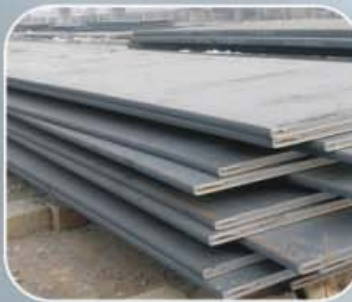




“ A professionally managed company
with an experience of over 35 years
in the METAL INDUSTRY ”



SIMPLEX
METAL & ALLOYS
AN ISO 9001:2008 COMPANY



ABSOLUTE "STEELWORTHY"



SIMPLEX
METAL & ALLOYS
AN ISO 9001:2008 COMPANY



NARESH SANGHVI
(PARTNER)



KAMLESH SANGHVI
(PARTNER)

Company Profile

Established nearly three decades ago **Simplex Metal & Alloys** enjoys a formidable position in **Stocking, Importing and Exporting** of all Ferrous and Non-Ferrous metals.

As per our Corporate Mantra " **PRECISION, PROMPTNESS, PRICE** " We take utmost care in Quality of products, Promptness in delivery at the most Competitive Price. In Close Co-Operation with our customers, we supply our service in conformity with their requirements including all Manufacturing and Test Certificates. We attach great importance in combining Technical Knowhow, Quality with highest Customer Service available. This coupled with our excellent Logistic facilities and ability to cater to various product requirement at short notice has enabled us to establish long standing partnership with our National and International Customers.

We do also IMPORT and STOCK Alloy Steel Seamless pipes in grades ASTM A-335 Gr. P1, P5, P9, P11, P22 etc. and Carbon Steel seamless pipes in ASTM A106 Gr. B, Low Temperature Pipes A 333 GR.6. All these materials available in different sizes and various schedules. Stainless Steel Seamless and ERW Pipes in ASTM A 312 TP - 304, 304L, 304H, 316, 316L, 310, 410 etc in various sizes and schedules.

All materials are available with us with the original manufactures test certificates with IBR Form III A duly inspected and accepted by third party inspecting agencies like BVS, LRIS, SGS, DNV, TUV, TPL, PDIL, TECHNIP etc.

We are also registered as approved vendor with many industries in India like Chemical, Pharmaceutical, Petrochemical, Oil Refineries, Fertilizer Industries, Power, Shipyards, Textile Mills, Paper & Pulp, General engineering etc. And many other Government and Semi Government Industries for supplying them Ferrous and Non Ferrous Metals.

PRODUCT RANGE



SIMPLEX
METAL & ALLOYS
AN ISO 9001:2008 COMPANY

Pipes

Specifications Catered :

Carbon Steel Seamless Pipes & Tubes :

ASTM/ASME (A53 GR. B, A106 GR B, A333 GR. 6), API 5L (Gr. B, X42/46/52/56/60/65/70/75 - PSL 1 & PSL 2)

SA (179, 192, 210, 213), DIN (2391, 1629, 17100), BS (3059), P235TR1, etc. – IBR / NIBR,

Size Range : ¼" NB to 28" NB

Galvanised (GI) Pipes & Mild Steel (MS) ERW Pipes :

As per IS1239 Part 1 - Class A (Light), Class B (Medium), Class C (Heavy) **Size Range :** ½" NB to 6" NB.

As per IS 3589 - Fe330 / Fe410 & API5L GR. B – ERW, HSAW, LSAW, DSAW, **Size Range :** 7" NB to 80" NB.

Alloy Steel Seamless Pipes & Tubes :

ASTM/ASME A/SA335, GR. P1, P2, P5, P9, P11, P12, P22, P91 & SA213, T5, T9, T11, T22, T91, Etc. – IBR & NIBR.

Size Range : ¼" NB to 28" NB

Stainless Steel Seamless & ERW Pipes & Tubes :

ASTM/ASME A/SA (312, 213, 269, 249) Grade 202, 304, 304H, 304L, 316, 316H, 316L, 316Ti, 309, 310, 317L, 321, 347, 904, 904L, 409, 409M, 410, 420, 430, 446, Etc.

Size Range : SEAMLESS ¼" NB to 28" NB, ERW : ¼" NB to 80" NB

COATING & PAINTING :

3Layer Polyethylene Coating – according the standards: DIN 30670 CSA Z245.21 AS 4321 IS 3589

"SMOOTHFLOW®" 3LPE Coating and Lining – according the standards: **DIN 30670 • CSA Z245.21 AS 4321 IS 3589**

Fusion Bonded Epoxy Coating - according the standards : CSA Z245.20 AWWA C 213 IS 3589

Dual Layer FBE Coating (Abrasion Resistant Overcoat) : according the standards: CSA Z245.20 IS 3589

Epoxy resin : Epoxy zinc Phosphate

Interzinc 22 : Inorganic zinc rich ethyl silicate primer.

Interzinc 52 : Zinc rich epoxy primer Grey Shade.



Epoxy Painted



3 LPE Coated



Stainless Steel



Carbon Steel

We are the Authorized dealers for the following Indian manufacturers:

- Maharashtra Seamless Limited (MSL)
- Indian Seamless Metal Tubes (ISMT)
- Mahalaxmi Seamless Ltd (MLSL)
- Jindal SAW Ltd (JSL)
- Welspun Corp. Ltd.
- Bhushan Steel Ltd.
- Lalit Pipes & Pipes Ltd.
- Mukat Tanks & Vessels Ltd.
- Tube Investments (TI)

PRODUCT RANGE



SIMPLEX
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Butt Weld Fittings

Stainless Steel : ASTM A403 WP 304 / 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904L etc.

Carbon Steel : ASTM A234 WPB / A420 WPL3 / A420 WPL6 / MSS-SP-75 WPHY 42 / 46 / 52 / 56 / 60 / 65 / 70

Alloy Steel : ASTM A234 WP1 / WP5 / WP9 / WP11 / WP22 / WP91 etc.

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

Types : Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collor, Cross, Insert etc.

Size : 1/4" NB TO 32" NB (Seamless & Welded)

Wall Thickness : Sch. 5S To Sch. XXS.

Screwed & Forged Fittings

Stainless Steel : ASTM A182 F304 / 304L / 304H / 316 / 316L / 317 / 321 / 310 / 347 / 904L etc.

Carbon Steel : ASTM A105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2.

Alloy Steel : ASTM A182 F1 / F5 / F9 / F11 / F22 / F91 etc.

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

Types : Elbow, Tee, Union, Cross, Coupling, Cap, Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel Nipple, Welding Nipple, Parraler Nipple, Street Elbow, Hexagon Nut, Hose, Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Threadolet, Nipolet, Letrolet etc.

Size : 1/4" NB TO 4" NB (Socketweld & Threaded)

Class : 3000#, 6000#, 9000#



PRODUCT RANGE



SIMPLEX
METAL & ALLOYS
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Flanges

Stainless Steel : ASTM A182 F304 / 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904 L etc.

Carbon Steel : ASTM A105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2, etc.

Alloy Steel : ASTM A182 F1 / F5 / F9 / F11 / F22 / F91 etc.

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

Types : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Deck Flange, RTJ Flange.

Size : 1/4" NB TO 24" NB

Class : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.



Plates

Plates - Exporters, Suppliers & Importers

Carbon Steel : IS 2062 Gr A/B, ASTM A36, SS400, IS 2062 CuWc, IS-2062 E 250 A (Fe 410W A), E 250 B (Fe 410W B), E 300 (Fe 440), E 350 (Fe 490), E 410 (Fe 540), E 450, S355JR, S275JR.

Boiler Quality : ASTM A 515 Grade 55, 60, 65, 70 ASTM A 515 Grade 60, 65, 70

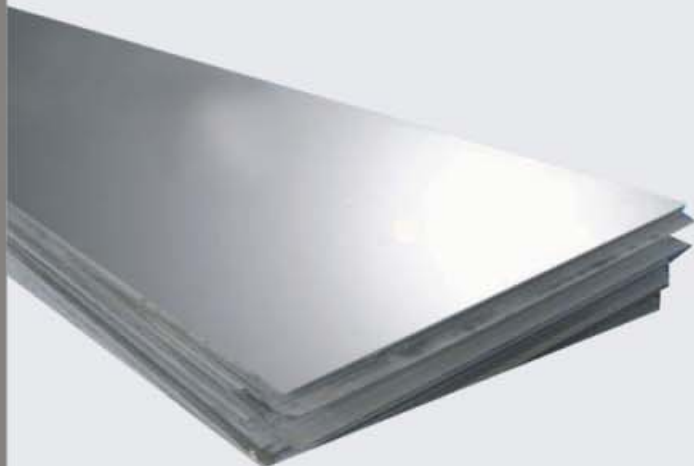
Alloy Steel : ASTM / ASME A/SA 387 Gr. 2, 5, 9, 11, 12, 22, 91 - CL. 1 / 2 / 3, Forged Plates : F2, F5, F9, F11, F12, F22, F91.

Stainless Steel : ASTM A240 Grade 201, 202, 301, 301LN, 304, 304LN, 304H, 309, 309S, 310S, 310L, 310H, 316, 316L, 316LN, 316H, 316Ti, 321, 321H, 347, 347H, 317L, 317LN, 409, 409M, 409S, 410, 410S, 420, 430, 431, 309, 309S, 309H, 310, UNS S31000, 310S, UNS S31008, 310H, UNS S31009, 310S - Cold Rolled, Hot Rolled

Corten A/B, Hadox, Abrex, Abrasion / Wear Resistant & High Manganese Steel Plates.

Aluminum Alloys & Extrusion : AA 2014, 2017, 2024, 3003, 5052, 5086, 5083, 6061, 6061 T6, 6063, 6063 T6, 6066, 6101, 6351, 6082, 7010, 7018, 7075, 55000, 54300

EN Series, Titanium, Inconel, Monel, Incoloy, Hastelloy, Nickel Alloy, Duplex & Super Duplex, BRASS, Gunmetal, Phosphor Bronze



PRODUCT RANGE



SIMPLEX
METAL & ALLOYS
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Other Ferrous & Non Ferrous Products

TYPE : PIPES, FITTINGS, FLANGES, ROUND BARS, WIRES, PLATES, SHEETS, COILS, FASTENERS, ETC.



EN SERIES : ALLOY STEEL : EN18, EN24, EN19C, EN19, EN18D, EN18C, EN353, EN18A, EN354, EN354, EN18B /
CARBON STEEL : EN8, EN 8A/B/C/D, EN9, EN15B, EN32B, EN43C, CK45, EN42, EN43, EN43B, C35, C55, SAE1038, SAE154 ETC.

TITANIUM : Gr.1, Gr.2, Gr.3, Gr.4, Gr.5, Gr.6 Gr.7, Gr.9, Gr.12 in Round Bars, Pipes, Pipe Fittings, Flanges & Plates.

INCONEL : Inconel 600, Inconel 601, Inconel 625, Inconel, 625LCF, Inconel 686, Inconel 718, Inconel 800, Inconel 825, Inconel X-750

MONEL : Monel 400, Monel K500

INCOLOY : Incoloy 800, Incoloy 825, Incoloy 925, Incoloy A-286, Incoloy DS

HASTELLOY : Hastelloy C-22, Hastelloy C -276, Hastelloy C-2000

NICKEL ALLOY : Nickel 200 (UNS No.2200), Nickel 201 (UNS No.2201), Nickel 205 (UNS No. 2205)

DUPLEX & SUPER DUPLEX : Duplex 2205, Duplex 2507, Duplex 31803

Phosphor Bronze Gr. 1 / 2 / 3, Aluminum Bronze, Cast Products in Round Bars, Forged Bars, Plates & Pipes

STAINLESS STEEL BAR : 409, 410, 416, 420, 422, 430, 431, 440C, 446, 15-5PH, 17-4PH.

BRASS : Free Cutting Brass, Leading Brass, Foreign Brass, Reviting Brass, Lead Brass, Forged Bars, Plates & Pipes.

ALUMINUM ALLOYS & EXTRUSION : AA 2014, 2017, 2024, 3003, 5052, 5086, 5083, 6061, 6061 T6, 6063 T6, 6066, 6101, 6351, 6082, 7010, 7018, 7075.

GUNMETAL, PHOSPHOR, BRONZE, CUPRO NICKEL, BERYLLIUM COPPER, TANTALUM, ETC.

PVC PLASTIC END CAPS FOR PIPES, FITTINGS, FLANGES & ROUND BARS.



SIMPLEX
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Application Industries



Cement Industries
Petrochemical
Engineering
Nuclear Power

Oil & Gas Industries
Heat Exchanger
Paper & Pulp Industries
Automobile

Power Plant
Fertilizers
Ship Building
Railway

Sugar Mill
Chemical & Pharmaceutical
Water Piping System
Food & Beverages

Formula of Calculating Weight

Formula For Healthy Business

Honesty + Quality of Goods + Quick Service + Reasonable rate = Good Health of Business

Weight of S.S. Pipe $\text{O.D. (mm)} - \text{W. Thick (mm)} \times \text{W. Thick (mm)} \times 0.0248 = \text{Wt. Per Mtr.}$ $\text{O.D. (mm)} - \text{W. Thick (mm)} \times \text{W. Thick (mm)} \times 0.00756 = \text{Wt. Per Feet.}$	Weight of S. S. Circle $\text{Dia (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \div 160 = \text{Gms. Per PC}$ $\text{Dia (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \times 0.0000063 = \text{Kg. Per PC}$
Weight of S.S. Round Bar $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.00623 = \text{Wt. Per Mtr.}$ $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.0019 = \text{Wt. Per Feet.}$	Weight of Brass Pipe / Copper Pipe $\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0260 = \text{Wt. Per Mtr.}$
Weight of S.S. Square Bar $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.00788 = \text{Wt. Per Mtr.}$ $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.0024 = \text{Wt. Per Feet.}$	Weight of Lead Pipe $\text{O.D. (mm)} - \text{Wt. (mm)} \times \text{Wt. (mm)} \times 0.0345 = \text{Wt. Per Mtr.}$
Weight of S.S. Hexagonal Bar $\text{A/F (mm)} \times \text{A/F (mm)} \times 0.00680 = \text{Wt. Per Mtr.}$ $\text{A/F (mm)} \times \text{A/F (mm)} \times 0.002072 = \text{Wt. Per Feet.}$	Weight of Aluminium Pipe $\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0083 = \text{Wt. Per Mtr.}$
Weight of S.S. Flat Bar $\text{Width (mm)} \times \text{Thick (mm)} \times 0.00798 = \text{Wt. Per Mtr.}$ $\text{Width (mm)} \times \text{Thick (mm)} \times 0.00243 = \text{Wt. Per Feet.}$	Weight of Aluminium Sheet $\text{Length (Mtr.)} \times \text{Width (Mtr.)} \times \text{Thick (mm)} \times 2.69 = \text{Wt. Per PC}$
Weight of S.S. Sheets & Plates $\text{Length (Mtrs)} \times \text{Width (Mtrs)} \times \text{Thick (mm)} \times 8 = \text{Kg. Per Sheet}$ $\text{Length (Ft)} \times \text{Width (Ft)} \times \text{Thick (mm)} \times 3/4 = \text{Kg. Per Sheet}$	Weight for Conversion of Mtr. To Feet $\text{Weight of 1 Mtr.} \div 3.2808 = \text{Feet}$
Formula for Calculating Width of Sheet for making Pipe $\text{Outer DIA} - \text{Wall Thickness} \times 22/7 = \text{Width of Sheet}$	



CARBON STEEL, ALLOY STEEL, LOW TEMP, PIPE AND TUBES SPECIFICATION

CHEMICAL ANALYSIS												SPECIFIC REQUIREMENT
									TENSILE STRENGTH	YIELD STRENGTH	ELONGA- TION	
SPECIFICATION	WT	C%	Mn %	P % MAX	S% MAX	Si%	Cr%	Mo%	Mpa	Mpa	50mm MIN Longitudinal	
ASTM A 53/A	AW	0.25MAX	0.95MAX	0.050	0.060	-	-	-	331MIN	207MIN	36	Cr Mo Cu Ni Va 0.40 0.15 0.40 0.40 0.08 Five elements not to exceed 1%
ASTM A 53/B	AW	0.30MAX	1.20MAX	0.050	0.060	-	-	-	413MIN	240MIIN	29.5	
ASTM A 106/A	AW	0.25MAX	0.27-0.93	0.025	0.025	0.10MIN	0.40MAX	0.15MAX	330MIN	205MIN	35/28	
ASTM A 106/B	AW	0.30MAX	0.29-1.06	0.025	0.025	0.10MIN	0.40MAX	0.15MAX	415 MIN	240MIN	30/22	
ASTM A 106/C	AW	0.35MAX	0.29-1.06	0.025	0.025	0.10MIN	0.40MAX	0.15MAX	485MIN	275MIN	30/22	
ASTM A 179	MW	0.06-018	0.27-0.63	0.048	0.048	-	-	-	325MIN	180MIN	35.0	Hardness 72 HRB Max
ASTM A 214	MW	0.18MAX	0.27-0.63	0.050	0.050	-	-	-	385MIN	180MIN	35.0	Hardness 72 HRB Max
ASTM A 192	MW	0.06-0.18	0.27-0.63	0.048	0.048	0.25MAX	-	-	325MIN	180MIN	35.0	Hardness 77 HRB Max
ASTM A 209/T1	MW	0.10-0.20	0.30-0.80	0.045	0.045	0.10-0.50	-	0.44-0.65	380MIN	205MIN	30/22	Hardness 80 HRB Max
ASTM A 209/T1a	MW	0.15-0.25	0.30-0.80	0.045	0.045	0.10-0.50	-	0.44-0.65	365MIN	195MIN	30/22	Hardness 81 HRB Max
ASTM A 209/T1B	MW	0.14MAX	0.30-0.80	0.045	0.045	0.10-0.50	-	0.44-0.65	415MIN	220MIN	30/22	Hardness 77 HRB Max
ASTM A 210/A-1	MW	0.27max	0.93max	0.048	0.058	0.10MIN	-	-	415MIN	255MIN	30/22	Hardness 79 HRB Max
ASTM A 210/C	MW	0.35MAX	0.29-1.06	0.048	0.058	0.10MIN	-	-	485MIN	275MIN	30/22	Hardness 89 HRB Max
ASTM A 213/T2	MW	0.10/0.20	0.30-0.61	0.045	0.045	0.10-0.30	0.50-0.81	0.44-0.65	415MIN	205MIN	30/22	Hardness 85 HRB Max
ASTM A 213/T5	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50MAX	4.00-6.00	0.44-0.65	415MIN	205MIN	30/22	Hardness 85 HRB Max
ASTM A 213/T11	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50-1.00	1.00-1.50	0.44-0.65	415MIN	205MIN	30/22	Hardness 85 HRB Max
ASTM A 213/T12	MW	0.15MAX	0.30-0.61	0.045	0.045	0.50MAX	0.80-1.25	0.44-0.65	415MIN	205MIN	30/22	Hardness 85 HRB Max
ASTM A 213/T22	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50MAX	1.90-2.60	0.87-1.13	415MIN	205MIN	30/22	Hardness 85 HRB Max
ASTM A 333/1	AW	0.30MAX	0.40-1.06	0.025	0.025	-	-	-	380MIN	205MIN	25/20	IMPACT AS -50F FOR 40X10J/18/14 -50F40X10J/18/14 90 HRB MAX
ASTM A 333/6	AW	0.30MAX	0.29-1.06	0.025	0.025	0.10MIN	-	-	415MIN	240MIN	30/22	
ASTM A 334/1	AW	0.30MAX	0.40-1.06	0.025	0.025	-	-	-	380MIN	205MIN	35/28	
ASTM A 334/6	MW	0.30MAX	0.29-1.06	0.025	0.025	0.10MIN	-	-	415MIN	240MIN	30/22	
ASTM A 335/P1	AW	0.10-0.20	0.30-0.80	0.025	0.025	0.10-0.50	-	0.44-0.65	380MIN	205MIN	30/22	
ASTM A 335/P2	AW	0.10-0.20	0.30-0.61	0.025	0.025	0.10-0.30	0.50-0.81	0.44-0.65	380MIN	205MIN	30/22	
ASTM A 335/P5	AW	0.15MAX	0.30-0.60	0.025	0.025	0.50MAX	4.00-6.00	0.45-0.65	415MIN	205MIN	30/22	
ASTM A 335/P9	AW	0.15MAX	0.30-0.60	0.025	0.025	0.25-1.00	8.00-10.00	0.09-1.10	415MIN	172MIN	30/22	
ASTM A 335/P11	AW	0.15MAX	0.30-0.60	0.025	0.025	0.50-1.00	1.00-1.50	0.44-0.65	415MIN	205MIN	30/22	
ASTM A 335/P12	AW	0.15MAX	0.30-0.61	0.025	0.025	0.50MAX	0.80-1.25	0.44-0.65	415MIN	205MIN	50/22	
ASTM A 335/P22	AW	0.15MAX	0.30-0.60	0.025	0.025	0.50MAX	1.90-2.60	0.87-1.13	415MIN	205MIN	30/22	
BS/3059/1/33		0.15Max	0.30-0.70	0.050	0.050	-	-	-	324-441	186MIN	25	
BS/3059/2/33		0.15MAX	0.40-0.70	0.050	0.050	0.10-0.35	-	-	324-441	186MIN	21	
BS/3059/2/45		0.12-0.18	0.90-1.20	0.035	0.035	0.10-0.35	-	-	441-560	245MIN	22	
BS/3059/2/620		0.10-0.15	0.40-0.70	0.040	0.040	0.10-0.35	0.70-1.10	0.45-0.65	441-618	235MIN	22	
DIN/17175/ST35.8		0.17MAX	0.40MIN	0.040	0.040	0.35MAX	-	-	340-441	235MIN	25	
DIN/17175/ST45.8		0.22MAX	0.45MIN	0.040	0.040	0.10-0.35	-	-	441-540	255 MIN	25	
DIN/17175/15MO3		0.12-0.20	0.50-0.80	0.040	0.040	0.10-0.35	-	0.25-0.35	441-540	284MIN	21	
DIN/17175/13CrMO44		0.10-0.18	0.40-0.70	0.040	0.040	0.10-0.35	0.70-1.60	0.40-0.50	441-570	294MIN	22	
DIN/17175/10CrM910		0.15MAX	0.40-0.60	0.040	0.040	0.15-0.50	2.0-2.5	0.9-1.10	441-570	294MIN	22	
ASTM A 199/T5	MW	0.50-0.15	0.30-0.60	0.030	0.030	0.50MAX	4.00-6.00	0.45-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 199/T11	MW	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	1.00-1.50	0.44-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 199/T22	MW	0.05-0.15	0.30-0.60	0.030	0.030	0.50MAX	1.90-2.60	0.87-1.13	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 199/T4	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50-1.00	2.15-2.85	0.44-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 199/T7	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50-1.00	6.00-8.00	0.45-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 200/T5	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50-1.00	4.00-6.00	0.45-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 200/T11	MW	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	1.00-1.50	0.44-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 200/T22	MW	0.05-0.15	0.30-0.60	0.030	0.030	0.50MAX	1.90-2.60	0.87-1.13	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 200/T4	MW	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	2.15-2.85	0.44-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 200/T7	MW	0.15MAX	0.30-0.60	0.030	0.030	0.50-1.00	6.00-8.00	0.45-0.65	415MIN	170MIN	30/22	HARDNESS 85 HRB MAX
ASTM A 199/T9	MW	0.15MAX	0.30-0.60	0.030	0.030	0.25-1.00	8.00-10.0	0.90-1.10	415MIN	172MIN	30/22	HARDNESS 89 HRB MAX
ASTM A178A	MW	0.06-0.18	0.30-0.60	0.035	0.035	-	-	-	325MIN	180MIN	35	
ASTM A178C	MW	0.35 MAX	0.27-0.63	0.035	0.035	-	-	-	415MIN	170MIN	30	
ASTM A178B	MW	0.27 MAX	0.80 MAX	0.030	0.015	0.10MIN	-	-	485MIN	275MIN	30	



ANSI PIPE SCHEDULE

Nominal Pipe Size inches	OD mm	10 mm kg/mtr	20 mm kg/mtr	30 mm kg/mtr	STD mm kg/mtr	40 mm kg/mtr	60 mm kg/mtr	XS mm kg/mtr	80 mm kg/mtr	100 mm kg/mtr	120 mm kg/mtr	140 mm kg/mtr	160 mm kg/mtr	XXS mm kg/mtr	Nominal Pipe Size inches	5S mm kg/mtr	10S mm kg/mtr	40S mm kg/mtr	80S mm kg/mtr	Vol/m m ³
1/8	10,30				1,73 0,37	1,73 0,37		2,41 0,47	2,41 0,47						1/8		1,24 0,28	1,73 0,36	2,41 0,48	0.0001
1/4	13,70				2,24 0,63	2,24 0,63		3,02 0,80	3,02 0,80						1/4		1,65 0,51	2,24 0,64	3,02 0,82	0.0002
3/8	17,10				2,31 0,84	2,31 0,84		3,20 1,10	3,20 1,10						3/8		1,65 0,64	2,31 0,86	3,20 1,12	0.0003
1/2	21,30				2,77 1,27	2,77 1,27		3,73 1,62	3,73 1,62				4,78 1,95	7,47 2,55	1/2	1,65 0,82	2,11 1,01	2,77 1,30	3,73 1,65	0.0004
3/4	26,70				2,87 1,69	2,87 1,69		3,91 2,20	3,91 2,20				5,56 2,90	7,82 3,64	3/4	1,65 1,04	2,11 1,31	2,87 1,71	3,91 2,24	0.0007
1	33,40				3,38 2,50	3,38 2,50		4,55 3,24	4,55 3,24				6,35 4,24	9,09 5,45	1	1,65 1,33	2,77 2,13	3,38 2,55	4,55 3,29	0.0011
1 1/4	42,20				3,56 3,39	3,56 3,39		4,85 4,47	4,85 4,47				6,35 5,61	9,70 7,77	1 1/4	1,65 1,68	2,77 2,76	3,56 3,46	4,85 4,56	0.0018
1 1/2	48,30				3,68 4,05	3,68 4,05		5,08 5,41	5,08 5,41				7,14 7,25	10,15 9,56	1 1/2	1,65 1,96	2,77 3,17	3,68 4,13	5,08 5,51	0.0023
2	60,30				3,91 5,44	3,91 5,44		5,54 7,48	5,54 7,48				8,74 11,11	11,07 13,44	2	1,65 2,44	2,77 4,01	3,91 5,54	5,54 7,63	0.0036
2 1/2	73,00				5,16 8,63	5,16 8,63		7,01 11,41	7,01 11,41				9,53 14,92	14,02 20,39	2 1/2	2,11 3,77	3,05 5,36	5,16 8,81	7,01 11,64	0.0053
3	88,90				5,49 11,29	5,49 11,29		7,62 15,27	7,62 15,27				11,53 21,35	15,24 27,68	3	2,11 4,60	3,05 6,09	5,49 11,52	7,62 15,59	0.0079
3 1/2	101,60				5,74 13,57	5,74 13,57		8,08 18,63	8,08 18,63						3 1/2	2,11 5,29	3,05 7,55	5,74 13,84	8,08 19,01	0.0103
4	114,30				6,02 16,07	6,02 16,07		8,56 22,32	8,56 22,32		11,13 28,32		13,49 33,54	17,12 41,03	4	2,11 5,96	3,05 8,52	6,02 16,40	8,56 22,77	0.0130
5	141,30				6,55 21,77	6,55 21,77		9,53 30,97	9,53 30,97		12,70 40,28		15,88 49,11	19,05 57,43	5	2,77 9,67	3,40 11,82	6,55 22,20	9,53 31,59	0.0199
6	168,30				7,11 28,26	7,11 28,26		10,97 42,56	10,97 42,56		14,27 54,20		18,26 67,56	21,95 79,22	6	2,77 11,55	3,40 14,13	7,11 28,83	10,97 43,42	0.028
8	219,10		6,35 33,31	7,04 36,81	8,18 42,55	8,18 42,55	10,31 53,10	12,70 64,64	12,70 64,64	15,09 75,92	18,26 90,44	20,62 100,92	23,01 111,27	22,23 107,92	8	2,77 15,09	3,76 20,37	8,18 43,39	12,70 65,95	0.048
10	273,10		6,35 41,77	7,80 51,03	9,27 60,31	9,27 60,31	12,70 81,50	12,70 81,55	15,09 96,01	18,26 144,75	21,44 133,06	25,40 155,15	28,58 172,33	25,40 155,15	10	3,40 23,08	4,19 28,34	9,27 61,52	12,70 83,19	0.074
12	323,90		6,35 49,73	8,38 65,20	9,53 73,88	10,31 79,73	14,27 108,96	12,70 97,46	17,48 132,08	21,44 159,91	25,40 186,97	28,58 208,14	33,32 238,76	25,40 186,97	12	3,96 31,89	4,57 36,73	9,53 75,32	12,70 99,43	0.104
14	355,60	6,35 54,69	7,92 67,90	9,53 81,33	9,53 81,33	11,13 94,55	15,09 126,71	12,70 107,39	19,05 158,10	23,83 194,96	27,79 224,65	31,75 253,56	35,71 281,70		14	3,96 35,06	4,78 42,14			0.126
16	406,40	6,35 62,64	7,92 77,83	9,53 93,27	9,53 93,27	12,70 123,30	16,66 160,12	12,70 123,30	21,44 203,53	26,19 245,56	30,96 286,64	36,53 333,19	40,49 365,35		16	4,19 42,41	4,78 48,26			0.165
18	457,00	6,35 70,57	7,92 87,71	11,13 122,38	9,53 105,16	14,27 155,80	19,05 205,74	12,70 139,15	23,83 254,55	29,36 309,62	34,93 363,56	39,67 408,26	45,24 459,37		18	4,19 47,77	4,78 54,36			0.208
20	508,00	6,35 78,55	9,53 117,15	12,70 155,12	9,53 117,15	15,09 183,42	20,62 247,83	12,70 155,12	26,19 311,17	32,54 381,53	38,10 441,49	44,45 508,11	50,01 564,81		20	4,78 60,46	5,54 70,00			0.258
22	559,00	6,35 86,54	9,53 129,13	12,70 171,09	9,53 129,13	- -	22,23 294,25	12,70 171,09	28,58 373,83	34,93 451,42	41,28 527,02	47,63 600,63	53,98 672,26		22	4,78 66,57	5,54 77,06			0.312
24	610,00	6,35 94,53	9,53 141,12	14,27 209,64	9,53 141,12	17,48 255,41	24,61 355,26	12,70 187,06	30,96 442,08	38,89 547,71	46,02 640,03	53,37 720,15	59,54 808,22		24	5,54 84,16	6,35 96,37			0.372
26	660,00	7,92 127,36	12,70 202,72	- -	9,53 152,87	- -		12,70 202,72							26					0.435
28	711,00	7,92 137,32	12,70 218,69	15,88 271,21	9,53 164,85	- -		12,70 218,69							28					0.505
30	762,00	7,92 147,28	12,70 234,67	15,88 292,18	9,53 176,84	- -		12,70 234,67							30	6,35 120,72	7,92 150,36			0.580
32	813,00	7,92 157,24	12,70 250,64	15,88 312,15	9,53 188,82	17,48 342,91		12,70 250,64							32					0.660
34	864,00	7,92 167,20	12,70 266,61	15,88 332,12	9,53 200,31	17,48 364,90		12,70 266,61							34					0.746
36	914,00	7,92 176,96	12,70 282,27	15,88 351,70	9,53 212,56	19,05 420,42		12,70 282,27							36					0.835
38	965,00				9,53 224,54			12,70 298,24							38					0.931
40	1016,00				9,53 236,53			12,70 314,22							40					1.032
42	1067,00				9,53 248,52			12,70 330,19							42					1.138
44	1118,00				9,53 260,50			12,70 346,16							44					1.249
46	1168,00				9,53 272,25			12,70 351,82							46					1.364
48	1219,00				9,53 284,24			12,70 377,79							48					1.485

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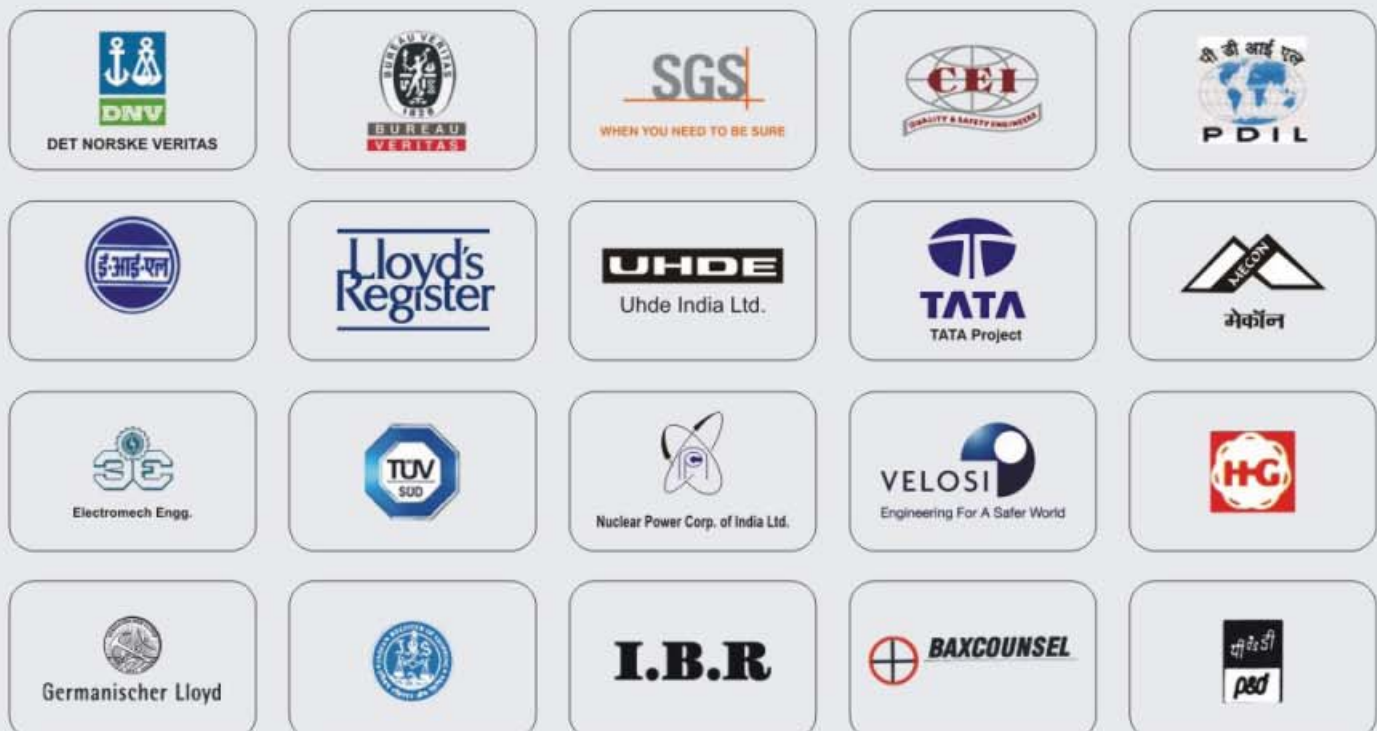


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HEAD OFFICE

Alankar Cinema Building,
Office No. 29, 1st Floor,
Building No. 247, S.V.P. Road,
Mumbai – 400 004.
Maharashtra, INDIA.

CONTACT DETAILS

Tel : 91-22-23822841 / 23822842

Tel : 91-22-23894985 / 67436741

Fax : 91-22-23892178

Email : sales@simplexmetal.com

Web. : www.simplexmetal.com /
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