



Repute Steel & Engineering Co.



BEST

QUALITY PRODUCTS



M45709101N

AN ISO 9001:2008 CERTIFIED COMPANY



Repute Steel & Engineering Co. is one of the leading manufacturers, Exporters and Suppliers. Our company is based in Maharashtra, India and we pride ourselves at being able to cater to buyers all over India and overseas.

RSEC is a dynamic group which was established to fulfill growing demands of Industrial raw materials. A team of experienced young visionaries who are making our products excellence in every aspect of dimension and quality and standards.

RSEC is a force to reckon with in the field of manufacturing and exporting premium quality Fittings, Fasteners & Flanges in Carbon Steel, Alloy Steel, Stainless Steel, Duplex Stainless Steel and all types of alloy materials in ferrous and non ferrous metals. We are based in Mumbai (India) the company has scaled incredible heights in business owing to its innovative products. The company's productivity and clients base is always on an upward swing. Giving priority in quality products RSEC is a most referred manufacturer and exporter in the flanges, fittings, fasteners, pipes, tubes electrical products and earthing products.

RSEC is a leading manufacturer, supplier and exporter of Flanges, Pipe Fittings, Fasteners, Pipes, Tubes, Rods, Bars, Sheets, Plates, Coils, Flats, Electrical Products and Earthing Products having an integrated steel complex with modern integration of huge manufacturing structure to produce best quality products from high quality raw metals.

We can help you import any material/product strictly adhering to your preference & quality constraints. We can arrange for chemical, physical, mechanical, ultrasonic, micro, IGC and any other related test from govt. approved Laboratories. We are even ready for any third party inspection of our material/product.

www.reputesteel.com



ABOUT US



REPUTE STEEL & ENGINEERING CO. a reputed company has grown by leaps & bounds through its excellent working staff & technology updates at regular intervals.

'REPUTE STEEL & ENGINEERING CO. has its cum State of the art manufacturing facilities and testing facility under one roof and the leading and one of the largest Export House of Metal & Alloys. Extensive know-how in the field of Metal & Alloys, strong R&D activity and continuous innovation in manufacturing technologies and product specification, allows REPUTE STEEL & ENGINEERING CO. to respond quickly to an increasingly demanding market offering high-quality products that are reliable, durable, and safe at competitive rates.

REPUTE STEEL & ENGINEERING CO. products are manufactured strictly by the specifications and designs laid by accepted International Standards. Wide product range, expert and efficient international sales network and sharp focus on customer needs represent the strengths of the REPUTE STEEL & ENGINEERING CO. Group and ensure a significant competitive advantage in a continuously Evolving global market.

REPUTE STEEL & ENGINEERING CO. has a total control over the quality of the products right from the raw materials to the finished products. Rigorous quality testing and control is enforced. Only that material which passes the rigid norms finds its way into the market. RSEC is well known manufacturer of Fittings, Flanges, and Fasteners and also a leading supplier of various raw industrial materials applicable in many core industries like Pharmacy Industries, Nuclear & Energy, Food Industries, Sugar Industries, Paper & Pulp Mills, Oil & Gas Industries, Water Piping Systems, Chemical, Fertilizers, Beverage Industries, and Cement etc.

Our philosophy

We are committed to provide quality services by integrating various resources and innovating products that help in increasing the efficiency and yielding profitable returns to the customers. Hence, our only motive is to provide complete customer satisfaction which helps us in building a strong customer base.

Infrastructure

We have a strong infrastructure that helps in attaining our business objectives and complete customer satisfaction. We have different units that help us in timely delivery of products.

We have a capacious storing unit which can meet the instant demand of the clients. In order to streamline the process by dividing the space into different sections this enables the storing of large products in same category.

Our Excellence

Quality is our prime concern. We are able to maintain high quality standards through our committed personnel and sound infrastructure. We ensure that finest quality material is used for our products.

To ensure the quality of each material, we are providing Materials Test Certificate along with supply. All our materials we supply carry Test Certificates and the testing shall be done in Govt. approved laboratory. We can also supply under third party inspection agencies like DNV, PDIL, TUV, SGS, EIL, I.B.R., BUREAU VERITAS, JH&G, LLOYD'S REGISTER etc.

Our team of experts maintains a vigil on the quality of the products. Every single piece is attached with test certificates and reports. We are continually improving our quality to serve our clients better.

Our Facilities

We have a sound infrastructure. Our spacious warehouse has the capacity to store large quantities of products. We possess a team of experts who are sourcing products of international standard to keep abreast with the global markets.

Our qualified professionals have served as a beacon not only for us but also for the entire industry in establishing top-notch quality standards.

We hope the information provided is useful to you & will forward us your regular enquiries and requirements & provide us with an opportunity to work with your esteemed organization.

If you have any suggestion or query, on how we can serve you better please do inform us. Your suggestions are heartily welcomed.



QUALITY POLICY



Certificate of Registration

This is to Certify that
Quality Management System of

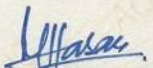
REPUTE STEEL & ENGINEERING CO.

3/117, B.R.HOUSE, 2nd KUMBHARWADA, SANT SENA MARG,
MUMBAI- 400 004, MAHARASHTRA, INDIA.

has been assessed and found to conform to the requirements of
ISO 9001:2008
for the following scope :

SOURCING & SUPPLY OF FERROUS & NON FERROUS METALS.

Certification No	1016QEV07	
Initial Registration Date	: 21/01/2018	Issuance Date : 21/01/2018
Date of Expiry*	: 14/09/2021	
1st Surve. Due	: 21/12/2019	2nd Surve. Due : 21/12/2020
Note : Expiry Date shall be Extended to 20/01/2019 After Successful Transition of ISO 9001:2015		


Director



M4570910IN



JAS-ANZ



www.jas-anz.org/register

Absolute Quality Certification Pvt. Ltd.

Accredited By: Joint Accreditation System of Australia & New Zealand (JAS-ANZ)

401, Ashok Bhawan, 93, Nehru Place, New Delhi - 110 019, | +91. 11. 4105 1139 | e-mail : info@absolutequalitycertification.com.

*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (In case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn).

Certificate Verification: Please Re-check the validity of certificate at <http://www.absolutequalitycertification.com/activeclients.aspx> or
www.absolutequalitycertification.com at Active Clients.

Certificate is the property of Absolute Quality Certification Pvt. Ltd. and shall be returned immediately when demanded



FLANGES



Flanges

PRODUCTS: FORGED AND PLATE FLANGES

TYPES : WELD NECK FLANGES, SLIPON FLANGES, BLIND FLANGES, SOCKET WELD FLANGES, LAP JOINT FLANGES, SPECTACLE FLANGES, RING JOINT (RTJ) FLANGES, SCREW FLANGES, MALE FEMALE FLANGES, ORIFACE FLANGES, DECK FLANGES, LONG WELD NECK FLANGES, WELDO FLANGES, NIPPO FLANGES, THREADED FLANGES, RING FLANGES, PLATE FLANGES.

MATERIAL : Flanges are forged from material conforming to ASTM A 105 NORMALISED ASTM A350-LF2, ASTM A694 F52, 65 ASTM A182 and Duplex Steels, B564, B637, B462 etc.

STAINLESS STEEL: - ASTM A182 F201, F202, F302, F304, F304L, F316, F316L, F316H, F310, F317, F316Ti, F317, F317L, F321, F347, F410, F430, F430F, F420, F904, F904L etc.

CARBON STEEL: - ASTM A105, IS2062, P11, P22, P40, A694 F42, 46, 52, 56, 60, 65, 70, A35, A350 LF3, F350 LF2 etc.

ALLOY STEEL : ASTM A182 F1, F5, F9, F11, F22, F91 ETC.

IN OTHER METALS : TITANIUM, INCONEL, HASTELLOY, DUPLEX & SUPER DUPLEX, COPPER, BRASS & BRONZE ETC. And customize as per demand by client.

DIMENSIONS : All dimensions comply with the Standard. Flanges are machined on the outside diameter, bore (and weld preparation of weld necks) and joint face. Bolt holes are drilled Weld prep on weld necks is to ANSI B16.25.

MARKING : Flanges are marked with: the nominal size: class number; material grade heat WT number' manufacturer's mark.

TEST CERTIFICATE : Flanges test certificates are available and are supplied with all goods. Test Certificates include full chemical analysis and Mechanical with Carbon Equivalent Properties with 3.1 certificates, Impact test & NACE MR 0175 / MR 0103 in addition as per requirement.

INSPECTION : All stock is statically sample inspected on receipt.

Dimensional Standard	Size Range	Rating
ASME / ANSI / B 16.5	1/2" to 24"	Class 150 to 2500 Lbs
MSS-SP-44	12" to 60"	Class 150 to 900 Lbs
ASME / B16.47/API 605	26" to 60" -	-----
ASME / ANSI / B 16.36	1" to 24"	Class 300 to 2500 Lbs
BS 3293	26" to 48"	Class 150 to 600 Lbs
ASME / B 16.48 / API 590	1/2" to 24"	Class 150 to 2500 Lbs
API 6A	2 1/16" to 30"	2000 PSi to 20000 Psi
DIN	DN10 to DN3600	PN6 to PN 160



FLANGES

Flanges





FITTINGS BW & SW



Fittings BW & SW

BUTT WELD & SOCKET WELD FITTINGS

Products : ALL TYPES OF PIPE FITTINGS & TUBE FITTINGS

- ELBOWS: LONG RADIUS ELBWS, SHORT RADIUS ELBOWS, 45°, 60°, 90°, 180°, 1D, 1.5D, 2D, 3D, 5D etc.
- REDUCERS: CONCENTRIC REDUCERS, ECCENTRIC REDUCERS
- TEES: EQUAL TEES, UNEQUAL TEES, REDUCING TEES.
- END CAPS: BUTTWELD END CAPS
- STUB ENDS(COLLARS): - SHORT STUBENDS, LONG STUB ENDS
- CROSS: EQUAL CROSS, UNEQUAL CROSS.
- NIPPLES: THREADING NIPPLE, REDUCING NIPPLE.
- SIZE: - 1/4" TO 60"
- THICKNESS: - SCHEDULE 5S, 10S, 20S, S10, S20, S30, STD, 40S, S40, S60, XS, 80S, S80, S100, S120, S140, S160, XXS AND ETC.
- SCHEDULE: - SCH 5 TO SCH XXS. SEAMLESS AND ERW WELDED.
- STANDARDS: - ANSI B16.9, ANSI B16.28, ANSI B36.10, MSS-SP-43 Type A, MSS-SP-43 Type B, JIS B2312, JIS B2313, DIN STANDARDS, ETC.

Dimensions

Dimensions of Elbows, Tees, Caps and Reducers from 4" NB to 60" short Radius Elbows and Return Bends from Bends from 1" to 24" N.B. and Long Radius Bends from 4" N.B. to 60" are as stated in the current editions of ANSI B 16.9 and B-16.28 wall thickness are as listed ANSI B36.10M.

Material Stainless Steel : ASTM A403, WP 201, 202, 302, 304, 304L, 316, 316L, 316H, 310, 317, 316Ti, 317, 317L, 321, 347, 410, 430, 430, 420, 904, 904L ETC.

Carbon Steel : ASTM A234 WPB A420 WPL3, A420, WPL6, MSS-SP-75 WPHY42, 46, 52, 56, 60, 65, 70

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

IN OTHER METALS : NICKEL BASE ALLOYS, NICKEL, TITANIUM, INCONEL, HASTELLOY, DUPLEX & SUPER DUPLEX, COPPER, BRASS & BRONZE ETC. And customize as per demand by client.

Weld Preparation All fittings have a weld preparation to ANSI B 16.25

Marking Fittings are marked with: the nominal size (or sizes); schedule or wall thickness; material grade; that reference manufacturer's mark. Where the size of fittings does not permit full marking then nominal size(s); schedule or wall thickness; and material grade are omitted.

Test Certificate

Fittings test certificates are available and are supplied with all goods. Test Certificates include full



FITTINGS BW & SW



chemical analysis and Mechanical Properties with 3.1 Certificate, Impact Test & NACE MR 0175, and MR0103 in additions per requirement.

Inspection all stock is statically sample inspected on receipt. The sampling plan is selected from BS6001.

OTHER CUSTOMISED BUTTWELD & SOCKET WELD FITTINGS AVAILABLE

Other Sizes, Schedules, wall thicknesses, materials, and as per drawings are available from short delivery time.





FASTENERS



Fasteners

FASTENERS : FORGE FASTENERS, COLD FORGE FASTENERS, TURNED FASTENERS, SHEET PRESS FASTENERS

Types : HEX BOLTS, NUTS, WASHERS, ANCHOR FASTENERS, STUD BOLTS, EYE BOLT, STUD, THREADED ROD, COTTER PIN, SOCKET SCREW, FINE FASTENERS & SPARES, FOUNDATION, FASTENERS etc.

BOLTS : HEX BOLTS, ALL TYPES OF BOLTS, ALL TYPES OF SCREWS, ANCHOR BOLTS, CARRIGE BOLTS, U BOLTS, J BOLTS, TEE BOLTS, L BOLTS, FLANGE BOLT, SOLDER BOLT, AND FOUNDATION bolt and customized as per drawing on clients request.

SCREWS : ALL TYPES OF SCREWS.

NUTS : HEX NUTS, HEAVY HEX NUTS, SQUARE NUTS, LOCK NUTS, CASTLE NUTS, JAM NUT, CAP NUT, WING NUT, ACCORN NUT, WING NUT, FLANGE NUT, TEE NUT, SQUARE NUT, TORQUE NUT, K LOCK, REVERSIBLE NUT, COUPLING NUT, NYLON NUT, SLOTED NUT and customized as per drawing on clients request.

WASHER : FLAT WASHER, FENDER WASHER, FINISHING WASHER, SPLIT LOCK WASHER, LOCK WASHER, EXTERNAL TOOTH LOCK, INTERNAL TOOTH LOCK, SQUARE WASHER, DOCK WASHER, OGEE WASHER, and SEALING WASHER and customized as per drawings.

STUDS: FULL THREAD STUDS, HALF THREAD STUDS.

PINS : ALL TYPES OF SMALL AND BIG SIZE PINS AND SHAFTS.

THREADED RODS : FULL THREAD RODS, HALF THREAD RODS, and customized as per drawings

ANCHORS : V TYPE ANCHORS, Y TYPE ANCHORS, U TYPE ANCHORS, AND REFRACTORY ANCHORS ETC.

MATERIALS :

*Stainless Steel: 202 / 304 / 304L / 304H / 316 / 316L / 316H / 316TI / 317 / 317H / 321 / 321H / 347 / 347H / 410 / 420 / 430 / 430 F / 904L. B8M, 8M

*Carbon Steel : CARBON STEEL FASTENERS, MILD STEEL, EN SERIES, And HIGH TENSILE FASTENERS ETC.

*Duplex / Super Duplex Steel : UNS S31803 / UNS S32205 / UNS S32750 / UNS S32760 / UNS S32755 / UNS S32750

*Inconel : 600 / 601 / 625 / 718 / 800 / 800H / 825

*Monel : 400 / K-500

*Hastelloy : C-276 / B-2

*Titanium : Gr. 1 / Gr. 2 / Gr. 3 / Gr. 4

*Nickel : 200 / 201 / 205 / 211 / 220 / 230 / 233 / 270

Special stainless steel :- 904L, 1.4539, 317L, 1.4439, 254SMO, 1.4547, 654SMO, 1.4652, AL-6XN,



FASTENERS



1.4529, Duplex S.S. Zeron 100, F5

Others : EN SERIES, CARBON ALLOY STEEL, HIGH TENSILE STEEL, TITANIUM, COPPER, NICROME, PHOSPHOROUS, BRASS, BRONZE, TANTALUM, BISMUTH, ALUMINIUM, HIGH SPEED STEEL, ZINC, LEAD ETC. 4:6, 5.6, 6.6, 8.8, 10.9, 12.9, B7, B7M, 2H, "R", "S", "T" CONDITIONS.

With Coatings : BARE CONDITION, GALVANIZED, PHOSPHETISED, CADMIUM, HOT DEEP GALVANIZED, BLOODIED, NICKEL, CHROME PLATED, ETC.

Marking

Fasteners are marked material grade, size and heat wt number' manufacturer's mark.

Our All fasteners confirms with all INSPECTION and Third Party Inspections & all major APPROVAL CERTIFICATES.

SIZE RANGE : 1 MM to 400 MM IN thickness is available in inches and metric dimension.

DIMENSION STANDARDS: AS PER ASTM, IS, ASME, SAE, DIN, JIS, BS, AN/MS, AIA/NAS.



HOT DIPPED GALVANIZING PLATED

PHOSPHATE PLATED

TEFLON PLATED / PTFE COATED

XYLON PLATED

ZINC PLATED

CADMIUM PLATED



FASTENERS



Fasteners

ASTM A193/A 193M ALLOY STEEL, CARBON STEEL & STAINLESS STEEL, BOLTING FOR HIGH TEMPERATURE SERVICE

ASTM GRADE	C	Mn	Si	S	P	Cr	Ni	Mo	Other	Hardness	Tensile Psi (MPa)	Yield Psi (MPa)	Elongation In Area%	Redu
A193 B8-B8A Al SI Type 304	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	18.00 20.00	8.00 10.50	- -	- -	223HB	75000(515)	30000(205)	30	50
A193B8-B8MA AISI Type 316	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	16.00 18.00	10.00 14.00	2.00 3.00	-	223HB 223HB	75000(515)	30000(205)	30	50
A193B8T-B8TA AISI Type 321	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	17.00 19.00	9.00 12.00	-	Ti>5xC <0.70	223HB	75000(515)	30000(205)	30	50
A193 B8C-B8CA AISI Type 347	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	17.00 19.00	9.00 13.00	-	Cb+Ta>10 XC51.10	192HB	75000(515)	30000(205)	30	50
A193B6-B6X AISI Type 410	0.15 Max	1.00 Max	1.00 Max	0.03 Max	0.040 Max	11.50 13.50	-	-	-	-	110000(760)	85000(585)	15	50
A193 B7-B7M Alloy Steel (Cr. Mo)	0.37 0.49	0.65 1.10	0.15 0.35	0.040 Max	0.035 Max	0.75 1.20	- -	0.15 0.25	- -	-	125000(860)	105000(720)	16	50
A193B5 A S-5% Cr.AISI501	0.10 min	1.00 Max	1.00 Max	0.030 Max	0.040 Max	4.00 6.00	-	0.40	-	-	100000(690)	80000(550)	16	50

ASTM A 194/194 M CARBON STEEL, ALLOY STEEL & STAINLESS STEEL NUTS, BOLTS FOR HIGH PRESSURE & HIGH TEMPERATURE SERVICE

A194B/8A AISI Type 304	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	18.00 20.00	8.00 10.50	- -	- -	-	126-300 Grade 8 126-182 Grade 8A
A194 8M/MA AISI Type 316	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	16.00 18.00	10.00 14.00	2.00 3.00	-	-	126-300 Grade 8m 126-192 Grade 8 MA
A194/ 8T/8TA AISI Type 321	0.08 max	2.00 12.00	1.00 max	0.03 0.78 Min	0.045	17.00 19.00	9.00 12.00	-	Ti >5 x C <0.70	-	126-300 Grade 8T 126-192 Grade 8 TA
A194/8C/8CA AISI Type 347	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	17.00 19.00	9.00 13.00	-	Cb+Ta>10 xC<1.10	-	126 - 300 G grade 8CA 126-192 Grade 8 CA
A194-6 AISI Type 410	0.15 Max	1.00 Max	1.00 Max	0.03 Max	0.040 Max	11.50 13.50	-	-	-	-	228 271HRC-20-28
A19422HM&2H Carbon Steel	0.4 min	1 Max	0.4 Max	1.050 Max	0.040 Max	-	-	-	-	-	159-352GR.2 248-352GR.2H 159-237GR.2HM
A194-7/7M Alloy Steel	0.37 0.49	0.65 1.1	0.15 0.35	0.04 Max	0.4 Max	0.75 1.2	- -	0.15 0.25	-	-	248-352GR.7 159-237GR.7M
A194-30.10A.S-5%Cr AISI501	0.10 Max	1.00 Max	1.00 Max	0.030 Max	0.040 Max	4.00 6.00	-	0.4 0.65	-	-	248-352 (HRC-24-38)





PIPE & TUBES



Pipes & Tubes

- Stainless Steel Pipes & Tubes
- Carbon Steel Pipes
- Alloy Steel Pipes
- Monel Pipes / Tubes
- Nickel Pipes / Tubes
- Inconel Pipes / Tubes
- Hastelloy Pipes / Tubes
- Copper Pipes / Tubes
- Brass Pipes / Tubes
- Bronze Pipes / Tubes
- Titanium Pipes / Tubes
- Tantalum Pipes / Tubes
- Bismuth Pipes / Tubes
- Aluminium Pipes / Tubes
- Zinc Pipes / Tubes
- Lead Pipes / Tubes

STAINLESS STEEL SEAMLESS AND WELDED ERW PIPES ARE CONFIRMING TO ASTM A312, ASTM A213, ASTM A269, ASTM A249, ASTM A358, and ASTM A240 etc.

Stainless Steel Seamless Pipe & ERW WELDED PIPES	TP304/L/H, 310/H, 316/L/H/Ti, 321/H, 347/H, 410, 904L
Stainless Steel EFW Tube GRADES	ASTM A358 CL. 1 to 5 TP304/L/H, 310/H, 316/L/H/Ti, 321/H, 347/H,
Stainless Steel Fabricated pipe welded from plates GRADES	Fabricate from S.S. Plates as per ASTM A240 TP304/L/H, 310/H, 316/L/H/Ti, 321/H, and 347/H, 904L with or without 10% Radiographic Welding.

CARBON STEEL & ALLOY STEEL PIPES: IBR AND NON IBR PIPES

IS 1239 & IS 3589	ISO 3183 Gr.L245, L290, L320, L360, L390, L415, L450, L485
A 106 Gr. B	ASTM A671 Gr. CC60/CC65/CC70
ASTM A106 Gr. B/C, API 5L Gr. B, ASTM A53 Gr. B	ASTM A672 Gr. B60/B65/B70/C55/C60/C65/C70
ASTM A179	API 5L Gr.
	X42/X46/X52/X56/X60/X65/X70/X80 PSL-1/PSL-2
ASTM A 333 GR. 6	ISO 3183 Gr.L245, L290, L320, L360, L390, L415, L450, L485
ASTM A334 Gr. 6	ASTM A335 GR P5, P9, P11, P22, P91
API 5L Gr. X42/X46/X52/X56/X60/X65 /X70/X80 PSL-1/PSL-2	AISI 4130 Pipe ASTM A519 Grade 4130 Pipe
ASTM A213 Gr. T2, T5, T5b, T5c, T9, T11, T12, T22, T23, T91, T92	ASTM A335 ALLOY STEEL PIPES
Cromoly Pipes	ASTM A213 Alloy Steel Pipes
DRILLING PIES CONFIRMING TO GRADES	30CrMnSiA, 45MnMoB, 35CrMo, 42CrMo, 20CrMo, 40Cr, 20Cr



PIPE & TUBES



DUPLEX STEEL PIPES : ASTM A790 UNS S32750 | ASTM A790 UNS S31803| ASTM A790 UNS S32760|ASTMA790 UNS S32205| Super Duplex 2507

Inconel Pipes : Inconel 600, Inconel 601, Inconel 617, Inconel 625, Inconel 718, Inconel X-750, Inconel 800, Inconel 800H, Inconel 800HT, Inconel 825,

Hastelloy Pipes : Hastelloy C4 (UNS No. N06455), Hastelloy C276 (UNS No. N10276), Hastelloy C22 (UNS No. N06022), Hastelloy C2000 ASTM: B622, B619, B622, B626, B575, B574, B564, B366

Copper, Copper Alloy Pipes & Tubes : Cupro Nickel Pipes & Tubes 95/5, 90/10 & 70/30

Brass, Brass Alloy Pipes & Tubes : Brass Tubes 70/30, Brass Tubes 63/37, Heater Brass Pipes, Admiralty Brass Tubes for Evaporators & Coolers, Aluminium Brass Tubes

Aluminium Pipes : All types of aluminum pipes from 1 mm to 400 mm.

Sizes (Seamless) : 1/2" NB - 26" NB, **Sizes (ERW)** : 1/2" NB - 48" NB, **Sizes (EFW)** : 6" NB - 100" NB

Fabricated : 1" to 100" NB

Wall Thickness available : Schedule 5S, 10, 20, 20S, 30, 30S, STD, 40, 60, XS, 80, 100, 120, 140, 160, XXS etc. (heavier on request)

Length : Standard, double & in cut length also.

Specialize : Round Pipe & tube, Square tube, rectangle tube & odd size

For the ends of pipes are 3 standard versions available.

Plain Ends (PE), Threaded Ends (TE), Beveled Ends (BE)



PIPE & TUBES

Pipes & Tubes

STAINLESS STEEL PIPE DIMENSION ANSI B 36.19

Nominal Pipe Size		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 20S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
MM	INCH	MM	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M
3	1/8	10.3	1.2	0.26	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.2	0.37	1.65	0.49	2.00	0.58	2.24	0.630	3.02	0.80	-	-	-	-
10	3/8	17.1	1.2	0.47	1.65	0.63	2.00	0.74	2.31	0.840	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.80	2.11	1.00	2.30	1.07	2.77	1.27	3.73	1.62	4.78	1.94	7.47	2.55
20	3/4	26.7	1.65	1.02	2.11	1.28	2.55	1.52	2.87	1.69	3.91	2.20	5.56	2.90	7.82	3.64
25	1	33.4	1.65	1.30	2.77	2.09	2.55	1.94	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.00	2.90	3.56	3.39	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.90	2.77	3.11	3.00	3.35	3.68	4.05	5.08	5.41	7.14	7.25	10.15	9.55
50	2	60.3	1.65	2.39	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48	8.74	11.11	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	4.00	6.81	5.16	8.63	7.01	11.41	9.53	14.91	14.02	20.39
80	3	88.9	2.11	4.51	3.05	6.45	4.00	8.37	5.49	11.29	7.62	15.27	11.1	21.30	15.24	27.68
100	4	114.3	2.11	5.84	3.05	8.36	4.50	12.18	6.02	16.07	8.56	22.32	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	5.00	16.80	6.55	21.8	9.53	30.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.82	6.35	25.36	7.11	28.26	10.97	42.56	18.25	67.53	21.95	79.22
200	8	219.1	2.77	14.78	3.76	19.96	6.35	33.31	8.18	42.55	12.7	64.64	23.01	111.27	22.23	107.92
250	10	273.1	3.40	22.61	4.19	27.78	6.35	41.77	9.27	60.31	12.7	81.55	28.58	172.33	25.40	155.15
300	12	323.8	3.96	31.24	4.57	36.00	6.35	49.7	9.53	73.85	12.7	97.43	33.32	238.68	25.40	186.90
350	14	355.6	3.96	34.34	4.78	41.30	7.92	67.90	11.13	94.54						
400	16	406.4	4.19	41.56	4.78	47.34	7.92	77.82	12.7	123.30						
450	18	457.2	4.19	46.81	4.78	53.32	7.92	87.74	14.27	155.86						
500	20	508.0	4.78	59.31	5.54	68.64	9.53	117.14	15.09	183.42						
600	24	610.0	5.54	82.57	6.35	94.52	9.53	141.11	17.48	255.41						

All Dimensions in millimeters. W.T. = Wall Thickness. KG/M = Kilograms per Meter.

DIMENSION TOLERANCE ANSI B 36.10 / B 36.19

Tubes Specification ASTM	Nominal Pipe Size (mm)	Permissible variations in Outside Diameter (mm)		Permissible variations in THK	Permissible variations in Length (mm)		Straight tolerance
		Over	Under		Over	Under	Max. curvature in any meter Length
A 106 CS Seamless Pipe for High Temp.	3 to 40 Incl	0.4	0.8	-12.5%			Up to 125 mm O/D and 12 mmTHK Pipe
	Over 40 to 100 Incl.	0.8	0.8				-0.76 mm
A 312 Seamless & Welded Austenitic SS Pipes	Over 100 to 200 Incl.	1.6	0.8				Over125 mm O/D to 200 mm O/D Inclusive
	Over 200 to 450 Incl.	2.4	0.8	Except for Welded pipe will filler Metal Added	6	0	-1.15 mm
A333 Seamless & Welded pipe for LT Service	Over 450 to 650 Incl.	3.2	0.8				Over 200 mm O/D to 324 mm O/D Inclusive
A 335 Seamless Ferritic Alloy Steel Pipe for High Temp. Service	Over 650 to 850 Incl.	4.0	0.8				-1.52 mm
	Over 850 to 1200 Incl.	4.8	0.8				
A 358 ERW Austenitic Cr-NiAs pipe for High Temp.serv.	All Sizes (upto 200 NB)	+0.5% -0.5% (Based on Circum-ferential Measurement)	-0.5%	+0.3 mm			3 mm / 3 meters
A409 ERW Large Dia Austenitic Steel Pipes	450 to 750 (SCH 5 S & 10 S)	+0.2%	+0.2% (For T<4.8 mm)	+0.46 mm			4.8 mm / 3 meters
		+0.4% Based on Circumferential Measurement	-0.4 (For T 4.8 mm)				



PIPE & TUBES



Pipes & Tubes

CARBON STEEL & ALLOY STEEL PIPE DIMENSIONS ANSI B 36.10

Nominal Pipe Size	O/D	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
MM INCH	MM	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M	W.T. KG/M
3 1/8 10.3		1.73	0.37	1.73	0.37			2.41	0.47	2.41	0.47			
6 1/4 13.7		2.24	0.63	2.24	0.63			3.02	0.80	3.02	0.80			
10 3/8 17.1		2.31	0.84	2.31	0.84			3.20	1.10	3.20	1.10			
15 1/2 21.3		2.77	1.27	2.77	1.27			3.73	1.62	3.73	1.62		4.78	1.95
20 3/4 26.7		2.87	1.69	2.87	1.69			3.91	2.20	3.91	2.20		5.56	2.90
25 1 33.4		3.38	2.50	3.38	2.50			4.55	3.24	4.55	3.24		6.35	4.24
32 1 1/4 42.2		3.56	3.39	3.56	3.39			4.85	4.47	4.85	4.47		6.35	5.61
40 1 1/2 48.3		3.68	4.05	3.68	4.05			5.08	5.41	5.08	5.41		7.14	7.25
50 2 60.3		3.91	5.44	3.91	5.44			5.54	7.48	5.54	7.48		8.74	11.11
65 2 1/2 73.0		5.16	8.63	5.16	8.63			7.01	11.41	7.01	11.41		9.53	14.92
80 3 88.9		5.49	11.3	5.49	11.3			7.62	15.3	7.62	15.3		11.13	21.35
90 3 1/2 101.6		5.74	13.57	5.74	13.57			8.08	18.63	8.08	18.63		-	-
100 4 114.3		6.02	16.07	6.02	16.07			8.56	22.3	8.56	22.3		13.5	33.5
125 5 141.3		6.55	21.77	6.55	21.77			9.53	30.9	9.53	30.9		15.9	49.11
150 6 168.3		7.11	28.26	7.11	28.26			10.97	42.5	10.97	42.5		18.3	67.5
200 8 219.1		6.35	33.3	7.0	36.8	8.18	42.5	8.18	42.5	10.31	53.1	12.7	64.6	12.7
250 10 273.0		6.35	41.7	7.8	51.3	9.27	60.3	9.27	60.3	12.7	81.5	12.7	81.5	12.7
300 12 323.8		6.35	49.7	8.4	65.2	9.53	73.8	10.31	79.7	14.27	109.0	12.7	97.4	17.5
350 14 355.6		6.35	54.7	7.92	68.1	9.53	81.3	9.53	81.3	11.13	94.6	15.09	126.0	12.7
400 16 406.4		6.35	62.6	7.92	77.9	9.53	93.3	9.53	93.3	12.7	123.0	16.66	160.0	12.7
450 18 457.2		6.35	70.6	7.92	87.7	11.13	122.0	9.53	105.0	14.20	156.0	19.05	206.0	12.7
500 20 508.0		6.35	78.5	9.53	117.2	12.7	155.1	9.53	117.2	15.09	183.0	20.62	248.0	12.7
550 22 558.8		6.35	86.6	9.53	129.0	12.7	171.0	9.53	129.0	22.2	294.0	22.2	294.0	12.7
600 24 610.0		6.35	94.5	9.53	141.0	14.3	210.0	9.53	141.0	17.48	255.0	24.61	355.0	12.7
650 26 660.0		7.92	127.3	12.7	203.0			9.53	153.0					12.7
700 28 711.0		7.92	137.4	12.7	218.0	15.88	272.0	9.53	165.0					12.7
750 30 762.0		7.92	147.9	12.7	234.6	15.88	292.2	9.53	176.0					12.7
800 32 812.8		7.92	157.9	12.7	250.6	15.88	312.0	9.53	188.2	17.48	342.0			12.7
850 34 863.6		7.92	167.9	12.7	268.5	15.88	331.7	9.53	200.0	17.48	364.9			12.7
900 36 914.4		7.92	176.9	12.7	282.4	15.88	352.2	9.53	212.0	19.05	420.6			12.7

All Dimensions in millimeters. W.T. = Wall Thickness. KG/M = Kilograms per Meter.



RODS, BARS & WIRES



Rod Bars Wires

ROD BARS & WIRES

Grade : Diameter Range: 0.1 mm – 500 mm

Condition : Cold Drawn & Polished (Also Centre less)

Length : 3 / 4 / 5.6 / 6 meter or wire form

FORM : Round, Square, Hex (A/F), Bush, Rectangle, Flat, Wire Mesh.

STAINLESS STEEL GRADES : ASTM / ASME SA 276, SA 479 TP, 201, 202, 302, 303, 304, 304L, 309, 309H, 316, 316L, 316H, 310, 317, 316Ti, 317, 317L, 321, 347, 410, 416, 420, 430, 430F, 431, 440A, 440B, 440C, 444, 446, 904, 904L ETC.

DUPLEX STEEL & SUPER DUPLEX GRADES :

ASTM / ASME SA 276 UNS NO S31803, UNS NO S32205, UNS NO S32550, UNS NO S32750, UNS NO S32760

Titanium : 6-4, 6-4 Eli, 6-2-4-2, 6-2-4-6, CP Grades 1,2,3,4

Inconel : Inconel Alloys | 600, 601, 617, 625, 718, 722, 750, 800, 825

Hastelloy : C276 ASTM B 575, ASME SB 575, UNS 10276.

Monel : Monel UNS N04400, UNS N05500, Monel 400, Monel K-500.

Other Nickel alloys : Tantalum, niobium, SMO254, Incoloy, alloy 20 etc.

NICKEL ALLOY RODS, BARS & WIRES:

ASTM / ASME SB 160 UNS 2200 (NICKEL 200) / UNS 2201 (NICKEL 201), SB 164 UNS 4400 (MONEL 400), SB 425 UNS 8825 (INCONEL 825), SB 166 UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), SB 446UNS 6625 (INCONEL 625), SB 574 UNS 10276 (HASTELLOY C 276), SB 472 UNS 8020 (ALLOY 20 / 20 CB 3)

CARBON STEEL : 517 GR. 60 / 70, IS 2062, IS 2002, ASTM A105, ASME SA105, ASTM A350 LF2, ASME A350 LF2

Carbon Alloy Steel : -ASTM / ASME A 182 GR F 5, F 9, F 11, F 12, F 22, F 91, B 11, B 22

EN SERIES Steel

Alloy Steel 4140 Like EN-8, EN-9, EN-19, EN-24, EN-31, EN-36C, EN-41B, EN-47, EN-353, 20MNCr5, 16MNCr5, 4140 etc. Made of EN Series steel

Type of Tool steel : W1 to W7, W1 A - 1B, W4 - W5, W7, A2 - A10, D2 - D7, O1 - O7, H 10, H11, H12, H13, H14, H16, H19, H23, H20, H21, H22, H24, H25, H26, H15, H41, H42, H43, M1, M7, M10, M30, M33, M34, M42, M43, M46, M47, M2, M3, M4, M6, M15, M35, M36, M41, M44, M45, T1, T2, T3, T7, T9, T4, T5, T6, T8, T15, F1, F2, F3, L1, L3, L7, L2, L6, S1, S3, S2, S4, S5, S6, S7, P1- P21, 01, A2, D2, D2 Supreme, D3 etc.

Hot Die Steel : (H13 Grade), (H-11 Grade), (H-21 Grade)

COPPER :

C101/C102/C103/B170/B379, Oxygen Free Copper rods, EC Grade Copper Rod, ETP Grade Copper Rod C110/B5, DHP Grade Copper Rod Copper Alloys and Cupro nickel etc



RODS, BARS & WIRES

Brass :

Free cutting brass rods: - Grade-1 (IS 319/89), Grade-2 (IS 319/89), BS 2874/86 – Cz121 Pb3, Cz124

Forging Brass Rod: - Cz122, IS 8737, IS 3488/80

High Tensile Brass Rods: - IS 8737 / AMD-2

Lead Free Brass Rods IS 4413/81, Cz108

Profile and Flat Brass Rods: - BS249, IS: 319 Gr. I & II, IS: 8364 Gr. I & II, BS: 2874 CZ121Pb3, CuZn39Pb3

Aluminium : Aluminum rods in grades 2011, 2014, 2017, 2024, 2219, 6033, 6040, 6061, 6063, 6082, 7050, 7068, 7075 etc.

Other Materials : Lead, Bronze,





SHEET, PLATES & COILS



Sheet, Plates & Coils

SIZE : 0.1 MM TO 400 MM THICKNESS

PLATES : IN WIDTH 1000 MM TO 1000 MM/1250/1500/2000/2500 MM/3000/5000 MM/6000 MM/8000 MM/10000 MM ETC.

IN COIL FORMS OF WIDTH 1000 MM / 1250MM / 1500MM / 2000 MM/ 2200 MM/ 2500 MM TO 3500 MM ETC.

AVAILABLE IN FORM : SHEET, PLATE, COIL, STRIPS, FOILS, SHIM, SHEET, ROLLS, PERFORATED SHEET, CHEQUERED PLATE , STRIPS, FOILS, FLATS, CIRCLES, RINGS, CUT PIECES, SQUARE PIECES, RECTANGULAR PIECES, ETC.

1. STAINLESS STEEL

SS ASTM /ASME SA 240 GR. 202, 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316H, 316L, 316Ti, 317, 317L, 317L, 321, 321H, 347, 347H, 49, 41, 410S, 420, 430

2. DUPLEX & SUPER DUPLEX STEEL

ASTM /ASME SA240 UNS S 31803, UNS S3225, UNS S32550, UNS S 32750, UNS S32760.

3. ALLOY STEEL: -

Alloy Steel Plates SA 387 GR. 11 CL. 1 / 2, ASTM A 387 GR. 12 CL. 1 / 2, ASTM A 387 GR. 22 CL. 1 / 2, ASTM A 387 GR. 5 CL. 1 / 2, DIN 17175 15Mo3 / 16Mo3, A 387 GR. 2 CL. 2 / 204 GR. A/204, B

4. Carbon Steel: -

Carbon Steel ASTM /ASME A 516 / 517 GR. 60, A 516 / 517 GR. 70, IS 2062

IS 2062 CARBON STEEL PLATES Carbon Alloy Steel A 387 PLATES, SHEETS

5. Carbon Alloy Steel ASTM /ASME A 387 GR F 5, GR F 9, GR F 11, GR F 12, GR F 22, GR F 91

6. High Tensile Steel

Wear Resistant Steel Hot	ASTM A 537 CL. 1, RAEX AR	S 890Q PLATES	XAR-600 (550 HB)
Rolled Plate	400 (360 - 440 HB)	QstE 690 TM HSLA Plates	S700MC,
HIC Resistant	RAEX AR 400 (360 - 440 HB)	ROCKSTAR 450 PLATES	Dillimax 690T,
Steel Manganese Steel		ROCKSTAR 400 PLATES	Maxil 690
Plate, High Manganese	DIN EN S 690 Q, QL, QL1	FORA 400 (360 - 440 HB)	Naxtra 70
Steel EN 19 Grade Steel Plate	S 690Q/MAXIL	12-14% Manganese	Supralsim 690
Armour Steel Plates	690 Q, S 690QL/MAXIL 690	XAR-300 8mm - 50mm (270 340 HB)	Weldox 700E
COR-TEN Plates	QL, S 690QL1/MAXIL	Alloy Steel Plate SA 387 A 387	
Hardox Plates	Weldox 700 Plate	XAR-500 6mm - 50mm (450 - 530 HB)	ST 52 Steel Plate
Chrome Moly Steel	Weldox 900 Plates	XAR-400 3mm - 100mm plus (360 - 440 HB)	

7. NICKEL ALLOY

Nickel Alloy : ASTM / ASME SB 162 UNS 2200 (NICKEL 200) / UNS 2201 (NICKEL 201), SB 127 UNS 4400 (MONEL 400), SB 424 UNS 8825 (INCONEL 825), SB 168 UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), SB 443 UNS 6625 (INCONEL 625), SB 574 UNS 10276 (HASTELLOY C 276), SB 462 UNS 8020 (ALLOY 20 / 20 CB 3)



SHEET, PLATES & COILS



8. TITANIUM & TITANIUM ALLOYS

GRADE 1, GRADE 2, GRADE 3, GRADE 4, GRADE 7, GRADE 11

6AL-4V OR GRADE 5, 6AL-4V ELI OR GRADE 23, GRADE 12, 5AL-2.5SN, 6AL-2SN-4ZR-2MO, 15V-3CR-3SN-3AL, 8AL-1MO-1V, 3AL-2.5V, 6AL-6V-2SN, 3AL-8V-6CR-4MO-4ZR, 13V-11CR-3AL

9. COPPER, CUPRONICKEL & COPPER ALLOY

All types of commercial and ETP copper, Cupronickel sheets plates as per UNS No C 70600 (CU - NI- 90/10), C 71500 (CU -NI- 70/30), and UNS C71640C11000 Electrolytic Tough Pitch Copper (ETP), Roofing Copper C11000 Cold Rolled,

C10100 Oxygen Free Electronic Grade Copper, C10200 Oxygen Free High Conductivity Copper C- Phosphorus Deoxidized Copper, C10100 OFHC, C11000 ETP, C14500 Tellurium, C172-17300 Beryllium, C18200 Chrome, C79200 Nickel Silver, C11000 ETP, C17200 Beryllium, C10100- 102 OFHC, C0300XLP, C12200 DHP, C12200, Beryllium Copper: - C17200, C17300, C17500, C17510

UNS GRADES : N10276, N06600, N06625, N08800, N07718 N07090.

10. BRASS & BRASS ALLOYS

C36000 ASTM B16 (Free Machining Brass), (Free Cutting Brass), (Yellow Brass)

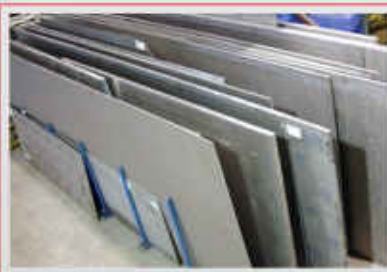
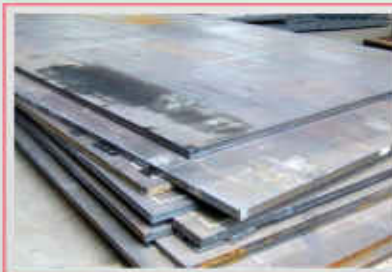
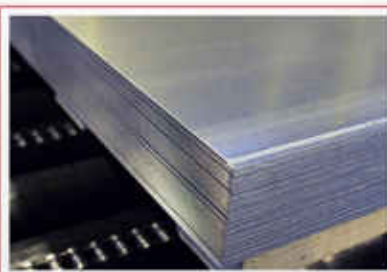
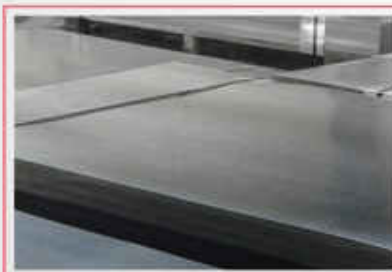
11. ALUMINIUM & ALUMINIUM ALLOYS

6061, 6063, 6101, 5052, 2024, 7075, 3003, 5086, 1100, 2011

1100, 1350, 3003, 5052, and 5086, 6061, 6063, 6101, 7075, 2024

12. LEAD

Our high quality Sheet Lead conforming to ASTM B-29, B-749 and Federal QQ-L-201F, QQ-L-171E





SHEET, PLATES & COILS



Sheet, Plates & Coils

SUMMARY OF THE MAIN ASTM STANDARDS GENERALLY USED FOR SHEETS / PLATES

ASTM	Grade	Chemical requirements percent (%)										Mechanical requirements				
		C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Others	Tensile Strength mini-MPa	Yield Strength mini-MPa	Elong mini %	Hardness Brinell	Rockwell
A240	304	0.08	2.00	0.045	0.030	0.75	8.00-10.5	18.00-20.0				515	205	40	201	92
	304L	0.03	2.00	0.045	0.030	0.75	8.00-12.0	18.00-20.0				485	170	40	201	92
	310	0.08	2.00	0.045	0.030	1.50	19.0-22.0	24.0-26.0				515	205	40	217	95
	316	0.08	2.00	0.045	0.030	0.75	10.0-14.0	16.0-18.0	2.00-3.00			515	205	40	217	95
	316L	0.03	2.00	0.045	0.030	0.75	10.0-14.0	16.0-18.0	2.00-3.00			485	170	40	217	95
A307	317L	0.03	2.00	0.045	0.030	0.75	11.0-15.0	18.0-20.0	3.00-4.00		Ti > 0.070	515	205	40	217	95
	321	0.08	2.00	0.045	0.030	0.75	9.00-12.0	17.0-19.0			Cu > 0.100	515	205	40	217	95
	347	0.08	2.00	0.045	0.030	0.75	9.00-13.0	17.0-19.0				515	205	40	201	92
	2	0.05-0.21	0.85-0.80	0.035	0.040	0.15-0.40		0.50-0.80	0.45-0.60			Class 1 Class 2 Class 3				
	5	0.15	0.30-0.60	0.04	0.030	0.050		4.00-6.00	0.45-0.65			380	486	230	310	22
A387 Class 1 Class 2	7	0.15	0.30-0.60	0.030	0.030	1.00		6.00-8.00	0.45-0.65			415	515	205	310	18
	9	0.15	0.30-0.60	0.030	0.030	1.00		8.00-10.0	0.90-1.10			415	515	205	310	18
	11	0.04-0.17	0.40-0.65	0.035	0.04	0.50-0.80		1.00-1.50	0.45-0.65			415	515	240	310	22
	12	0.04-0.17	0.40-0.65	0.035	0.04	0.15-0.40		0.80-1.15	0.45-0.60			380	460	230	275	22
	21	0.04-0.17	0.30-0.60	0.035	0.035	0.50		2.75-3.25	0.90-1.10			415	515	205	310	18
A515	22	0.05-0.17	0.30-0.60	0.035	0.035	0.50		2.00-2.50	0.90-1.10			415	515	205	310	18
	55	0.22	0.90	0.035	0.04	0.15-0.40						380-515	205	27		
	60	0.27	0.90	0.035	0.04	0.15-0.40						415-550	220	25		
	65	0.31	0.90	0.035	0.04	0.15-0.40						450-565	240	23		
	70	0.33	1.20	0.035	0.04	0.15-0.40						485-620	260	21		
A516	55	0.20	0.80-1.20	0.035	0.04	0.15-0.40						380-515	205	27		
	60	0.23	0.85-1.20	0.035	0.04	0.15-0.40						415-550	202	25		
	65	0.26	0.85-1.20	0.035	0.04	0.15-0.40						450-565	240	23		
	70	0.28	0.85-1.20	0.035	0.04	0.15-0.40						485-620	260	21		
	Class 1	0.24	0.70-1.35	0.035	0.040	0.15-0.40	0.25 max	0.80 max	0.35 max			485-620	345	22		
A537	Class 2	0.24	0.70-1.35	0.035	0.040	0.15-0.40	0.25 max	0.80 max	0.35 max			550-690	415	22		

IS-2002-62 STEEL PLATES FOR BOILERS

Designation	C	Si	P	S	Tensile Test		Elongation	
					Tensile strength MPa	Yield strength MPa	Test Piece	% min
IS 2002-1	0.18	0.10-0.35	0.040	0.040	362-442	540	5.65/SC	26
IS 2002-2A	0.20	0.10-0.35	0.050	0.050	412-491	491	5.65/SC	25
IS 2002-2B	0.22	0.10-0.35	0.050	0.050	510-605	491	5.65/SC	20

IS-2002-92 STEEL FOR GENERAL STRUCTURAL PURPOSES

Grade	Designation	% Chemical Composition				Tensile strength (Min) MPa	Yield Strength (Min) MPa		Elongation (in gauge length) % min	Bend Test	SCL test (Flare Charpy V Notch Impact Energy / Joule min)
		C	Mn	S	P		<2 mm	<2 mm			
A	FE410WA	0.23	1.5	0.050	0.050	418	240	230	23	3	-
B	FE410WB	0.22	1.5	0.045	0.045	418	250	230	23	4/25mm	21 for 27 Jt for >25mm
C	FE410WC	0.20	1.5	0.040	0.040	418	250	230	23	2	27

Formula - Weight of Stainless Steel Sheets/Plates = Length (mm) x Width (mm) x Thickness (mm) x 7.86 = Kg./Sheet.



CUT PIECES, STRUCTURAL PROFILE & VALVE



Plate Cut Pieces, Circles, Round Plates, Rings,

STAINLESS STEEL: - 201, 202, 304, 304L, 304Ti, 309, 310, 316, 316L, 316Ti, 409, 410, 410S, 420, 430, 430, 440,

CARBON STEEL: - IS 2062, P9, P11, P22, P91,

Available in other grades: -

DUPLEX & SUPER DUPLEX STEEL, HIGH TENSILE STEEL, NICKEL ALLOY, TITANIUM, COPPER, CUPRONICKEL, COPPERALLOY, BRASS, ALUMINIUM AND LEAD

Structural Profile

ANGLES, FLATS, CHANNELS, BEAMS, H BEAMS, T ANGLE, C CHANNEL, L ANGLE AND

MATERIALS : - STAINLESS STEEL, CARBON STEEL, ALLOY STEEL, DUPLEX STEEL, INCONEL, HASTELLOY, NICKEL STEEL, COPPER, BRASS, ALUMINIUM ETC.

SIZE : - AVAILABLE IN ALL SIZES FROM 1 MM TO 500 MM

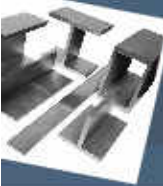
Valves

GATE VALVES	RELEASE VALVES	TRAPS & STRAINERS
CHECK VALVES	BUTTERFLY VALVES	FUSIBLE PLUGS, INJECTORS & EJECTORS
BALL VALVES	NON RETURN VALVES	SAFETY/RELIEF VALVES
GLOBE VALVES	PARALLEL SIDE & BLOW OFF VALVES	PRESSURE REDUCING VALVES
PISTON VALVES	FOOT VALVES	LIFT VALVES
PLUG VALVE	SSLUICE VALVES	COCKS
STOP VALVES	REFLUX VALVES	

AVAILABLE IN MATERIALS:

STAINLESS STEEL, Carbon Steel, DUPLEX & SUPER DUPLEX STEEL, NICKEL ALLOY, COPPER, CUPRONICKEL, COPPERALLOY, BRASS etc.

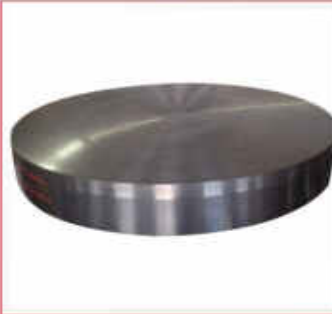
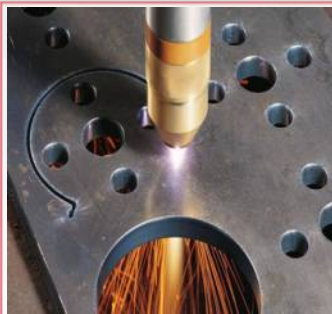
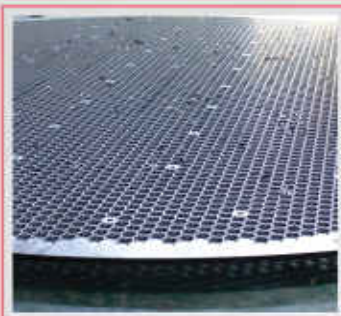




CUT PIECES, STRUCTURAL PROFILE & VALVE



Cut Pieces Circles Rings & Valves





ELECTRIC PRODUCTS & EARTHING PRODUCTS



Electric Products & Earthing Products

Earthing & Lightning Protection	Cable Support System	Switch Board / Control Panel Accessories
Copper Bonded Grounding Rod	Conduits	
Niro Clip Snap-on-holder (for attaching wire to wall)	DOME COVER	DIN Rail Channels
Cast Ground Plate or Earth Plate	Solids	End Clamps for DIN Rails
Coupler	Conduit Accessories	DMC Bus Bar Supports/ Insulators
Driving Stud	Elbows	Insulator Conical Series
Solid Copper Grounding Rod	Tees	Insulator Hexagonal / Oct Series
Solid Copper Earth Rod - Accessories	Bends	PVC Grommets / Closures
Mechanically Claded/ Coated Copper Grounding Rod	Couplings	Panel Locks
Stainless Steel Ground Rod	Hexagon Lock Nut	Key Locks
Solid Copper Earth Plate	Hooks & Crampets	Keys
Copper Bonded Earth Plate	Lock Ring	Swing Handle (Round Rod)
Plastic Earth Pit / Housing	Union / Nipples	Rod Latch Systems (Flat Rods)
Copper Alloy Clamps	PVC Conduit Accessories	Hinges
Bonds	GI Switch Socket Box & Brackets	Filters
Lightening Protection	Strut Channels	Accessories
Disconnecting Links	Pipe Clamps	Document Holders
Equipotential Bonding Bars	PG Threaded Nylon Flexible Cable Glands	Tinned Copper Bus Bars
Roof Conductor Support	Lock Nut	Tinned Copper Bushes
End Piece	Blanking Plug	PBT Spacers
Roof Conductor Holder with Niro-Clip	Adaptable Boxes Bright Spangle	Nylon Neutral Link Base
Wall & Roof Conductor Holders (for attaching wire to wall)	Spiral Nylon Cable Glands	Neutral Link Break
Aluminium Square Earth Plate with Aluminium Pipe	Dual Purpose Steel Reinforced Pipe Glands	Universal Plastic Filter Guard
Lead Square Earth Plate with Lead Pipe	Nylon Straight Cable Glands	Panel Door Knob
Connection Clamps & Cross Clamps Number Tags	Corrugated Pipe Glands	MCB / Module Blanking Plate
Multi Clamp		Nylon Snap Latch
Round Type Earth - Clamp Holder - Plastic (Nylon Six)	Cable Jointing & Termination Kit Components	Nylon Hinge
Square Type Earth - Clamp Holder - Plastic (Nylon Six)	Tinned / Bare Copper Braids, Socks, Flexible Connectors etc	Door Label Holder
Round Disc Holder with PVC Pointed Earthing Rod Assembly	Bare / Tinned Copper Wire Mesh	Meter Window Glass
Plastic DC Tape Clip	Constant Force Springs / Roll Springs	Nylon Cable Ties & Accessories
Earthing Pipe Clamp	Metal Canisters	Control Panel Spares
Pipe Holder	Armour / Back - Up Rings	PVC Cable Ducts / Channels / Panel Trunkings
Wire Holder	Hose Clamps	Metal Spacers
Comb Bar / Earthing Strap		Weld Studs
Saddle Clamp and Base	Stainless Steel Cable Ties & Markers	
Brass Earthing Terminals	Roller Ball Type Stainless Steel Cable Ties	Electrical Cable Accessories
Conductors - Hard Drawn Copper Bar	Releasable Type Stainless Steel Cable Ties	Cable Terminal Ends
Bare Copper Tape	Ladder Type Stainless Steel Cable Ties	Connectors
Flexible Copper Braids	Steel Marking System	Crimping Tools
Conductors - Solid / Stranded		Brass Cable Gland Kits & Accessories
TEREC - Earth Enhancing Miracle Compound		
SATELIT 3		
Earthing Clamps		
Band Earth Clamp		



ELECTRIC PRODUCTS & EARTHING PRODUCTS



Electric Products & Earthing Products



CONTACT US



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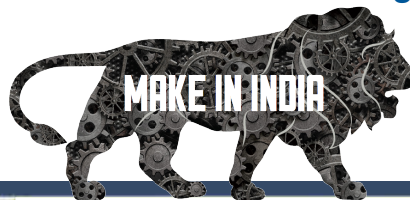
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