

Bright Bars
Round Bars
Hexagon Bars
Flat Bars
CNC Components
Pipes
Angles
Round bars
Pipe Fitting
Hose End Connections
Square Bars
Bright Bars
Flat Bars
Pipes
Forged Fitting and Flanges
Hexagon Bars
Hexagon Bars
Ingots
Angles
Forged components
Flat Bars
O'lets
Flat Bars
Hexagon Bars
Hexagon Bars
Ingots
Hexagon Bars
Angles
Flat Bars
Stainless
Pipes
Forged Fitting and Flanges
Hexagon Bars
Hexagon Bars
Ingots
Angles
Forged components
Threaded Bars
Forging Bars
Bright Bars
Hexagon Bars
Hexagon Bars

MAX FORGE

"ONE SOLUTION..... FOR ALL STEEL"

MAX FORGE

(ISO & PED Certified Company)

Located in Mumbai, Maharashtra, India was established in the early 2002, known as one of the leading Manufacturer | Stockist | Suppliers | Exportes of Piping Material in Stainless Steel | Alloy Steel | Carbon Steel | Duplex/Super Duplex | Alluminium Alloy | Inconel | Monel | Nitronic | Titanium - Hastalloy | Cupro Nickel in form of Round Bars | Hex Bars | Square Bars | Flat Bars | Pipes | Pipe Fittings | Forge Fittings | Forged Flanges | Neckring's | O'lets, conforming to all international standard's, as we have various joint venture with Mills around the world.

We keep regular stock for our clients to serve them better and on time delivery. All the products will be provided with Material Test Certificate / IBR certificate / Govt. Approved NABL lab's or any Third Party Inspection Agencies.

It is understood from our trade circle that you have regular requirement of our products, most of which we can supply ex-stock or within short delivery period at very competitive rates with specified material, with quality assurance plan. So we humbly request you to favor us the honor of being as your list of suppliers and favor us with your valuable enquires as and when demand arises.

For Further Clarification of our Products and Services, Please feel free to contact us.

PRODUCT RANGE

PIPE AND TUBE

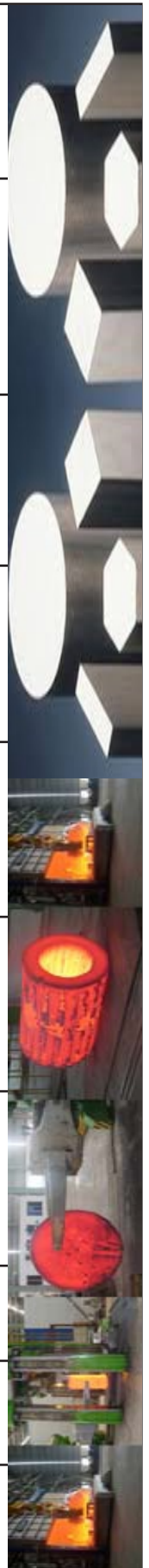
(SEAMLESS & WELDED) AS PER ASME B36.10/B16.19 (Round and Square Pipe)

1. Alloy Steel Size	: P11-P12-P5-P9-P91-T11-T22. : 1/2" NB to 24" NB FROM SCH. 40 TO XXS.
2. Stainless Steel Size	: TP304-304L-316-316L-321-321H-310-SM0254 : 1/8" NB/OD TO 24" NB/OD - SCH 5 TO SCH XXS & 1 MM to 6 MM Thickness.
3. Carbon Steel Size	: A106 GR B : 1/4" NB to 24" NB FROM SCH 20 TO SCH XXS
4. Low Temp. Steel Size	: A333 GR 6 : 1/2" to 12" NB FROM SCH 20 TO SCH XXS
5. Mild Steel Size	: WELDED PIPE : 1/2" NB to 6" NB IN CLASS A - B - C
6. Duplex Steel Size	: 2205-2207 : 1/2" NB to 12" NB IN SCH 40 - 80 - 160 - XXS
7. Cupro Nickel Size	: CU - NI - 90/10 & 70/30 : 1/2" NB to 6" NB SCH 40 to 160 (Any Smaller or Bigger size on Request)




ROUND - HEX - SQUARE BAR : Rolled and Forged

1. Alloys Steel	: F11-F12-F22-F5-F9-F91-F92
Round Bar Diameter	: 8 MM to 250 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 50 MM (Bigger Size on request)
Square Bar Diameter	: 25 MM to 50 MM (Bigger Sizes on request)
2. Stainless Steel	: 304-304L-316-316L-321-321H-310-317-317L 410-420-440C-430-431-904L-17-4-PH-15-5-PH
Round Bar Diameter	: 12 MM to 160 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 50 MM (Bigger Size on request)
Square Bar Diameter	: 10 MM to 50 MM (Bigger Size on request)
3. Carbon Steel	: A105
Round Bar Diameter	: 10 MM to 360 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 50 MM (Bigger Size on request)
Square Bar Diameter	: 10 MM to 50 MM (Bigger Size on request)
4. Low Temperature Steel	: A350LF2
Round Bar Diameter	: 20 MM to 160 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 50 MM (Bigger Size on request)
Square Bar Diameter	: 25 MM to 50 MM (Bigger Size on request)
5. Mild Steel	: 4140-4130-IS 2062-1018
Round Bar Diameter	: 05 MM to 160 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 46 MM (Bigger Size on request)
Square Bar Diameter	: 10 MM to 50 MM (Bigger Size on request)
6. Duplex Steel	: F51-F52-F53-F55-F65-F70
Round Bar Diameter	: 16 MM to 160 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 45 MM (Bigger Size on request)
Square Bar Diameter	: 25 MM to 50 MM (Bigger Size on request)
7. Inconel & Hastalloy	: 625-718-825-935-C276-617
Round Bar Diameter	: 16 MM to 160 MM (Bigger Size on request)
Hex Bar Diameter	: 13 MM to 45 MM
Square Bar Diameter	: 25 MM to 38 MM (Bigger Size on request)
8. Aluminium Alloy	: A2014 T6
Diameter	: 32 MM to 280 MM Dia ((Bigger Size on request)
9. Nitronic	: 50 (XM-19) - 60 & X 750
Diameter	: 32 MM to 120 MM (Bigger Size on request)
10. Cupro Nickel	: CU-NI - 90/10 - 70/30
Diameter	: 20 MM to 80 MM (Bigger Size on request)




FORGE FLANGE

B16.5/B16.47 series A & B in type of WNRF/BLRF/SORF/SWRF/ SPECTICALE/RTJ in Pressure Rating 150# - 300# - 600# - 900# - 1500# - 2500#.

1. Alloy Steel Size	: F11-F12-F22-F5-F9-F91-F92 : 1/2" NB to 24" NB	
2. Stainless Steel Size	: 304-304L-316-316L-321-2205-2507. : 1/2" NB to 24" NB	
3. Carbon Steel Size	: A105 - LF2 : 1/2" NB to 24" NB	
4. Cupro Nickel Size	: CU-NI - 90/10 & 70/30 : 1/2" NB to 8" NB	
5. Inconel Size	: 625-718-825 : 1/2" NB to 8" NB	


FORGE FITTING

ASME B16.11 in type of 90° & 45° Elbow-Tee-Coupling-Hex Plug-Hex Nipple-Pipe Nipple-Union-Swage Nipple-Busing in Pressure Rating 2000#-3000#-6000#-9000# with end connection S/W & Threaded.

1. Alloy Steel Size	: F11-F12-F22-F5-F9-F91-F92 : 1/2"NB to 4" NB	
2. Stainless Steel Size	: 304-304L-316-316L-321 : 1/4"NB to 4" NB	
3. Carbon Steel Size	: A105 - LF2 : 1/2"NB to 4" NB (Bigger Size on request)	
4. Cupro Nickel Size	: CU-NI - 90/10 & 70/30 : 1/2"NB to 4" NB	

O'LET

MS SP 97 in type of Weldolet/Thredolet/Socolet/Elbowlet/Swepolet/Nippolet/Latrolet.

1. Alloy Steel Size	: F11-F12-F22-F5-F9-F91-F92 : 1/2"NB to 4" NB	
2. Stainless Steel Size	: 304-304L-316-316L-321 : 1/4"NB to 4" NB	
3. Carbon Steel Size	: A105 - LF2 : 1/2"NB to 4" NB	

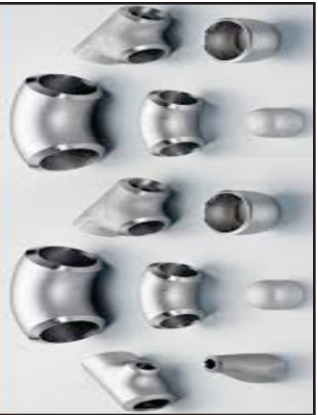
HOSE END CONNETION

1. Stainless Steel Size	: TP 304-304L-316-316L-321 : 1/8" OD to 12" OD - 1 MM to 6 MM Thickness	
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WE CAN ALSO MANUFACTURE HIGH NICKEL FORGE FITTING, FLANGES & O'LETS.

BUTTWELD FITTING

ASME B16.9 in type of 90° & 45°. Elbow - Tee - Reducer - End Cap - Stubend.

1. Alloy Steel Size	: P11-P22-P5-P9-P91-F92 : 1/2" NB to 24" NB FROM SCH. 40 TO XXS (Seamless)	
2. Stainless Steel Size	: TP304-304L-316-316L-321-321H-310 : 1/8" NB to 12" NB - Seamless - SCH 10 to SCH XXS : 1/2" NB to 24" NB - Welded - SCH 5 to SCH 40	
3. Carbon Steel Size	: A234 WPB : 1/2" NB to 24" NB From SCH 20 to SCH XXS (Seamless) (Bigger Size on Request)	
4. Low Temp. Steel Size	: A420 WPL6 : 1/2" NB to 12" NB From SCH 40 to SCH XXS (Seamless)	

Testing Facility :

- | | | |
|------------------------------|---------------|-------------|
| 1. P.M.I | 2. Ultrasonic | 3. Hardness |
| 4. Dye Penetrant Inspection. | 5. M.P.I. | |

OUR APPROVAL & ACCREDITATIONS

STATUTORY BODIES : ISO 9001:2015, PED 97/23/EC

INDUSTRIES SERVED

- | | | |
|----------------------|-------------------|------------------------------|
| ◆ Power - Thermal | ◆ OIL & GAS | ◆ Fertilizers |
| ◆ Boiler | ◆ Nuclear | ◆ Chemicals & Petrochemicals |
| ◆ Forging Industries | ◆ Defense | ◆ Railways |
| ◆ Paper Industries | ◆ Food Industries | ◆ Valve Industries |

FORMULA OF WEIGHT

WEIGHT OF STEEL PIPES & TUBES

O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.02466 = Kg. per meter

SHEET WIDTH REQUIRED FOR ROLLED AND WELDED PIPES

O.D. (mm) - Thk. (mm) x 3.14 = Sheet Width

WEIGHT OF STEEL SHEETS

Length (Mtr.) x Width (Mtr.) x Thk (mm) x 8 = Kg. Per Sheet

WEIGHT OF STEEL CIRCLE & BLANKS

O.D. (mm) x O.D. (mm) X Thk (mm) d 160 d 1000 = Kg. Per Pcs.

WEIGHT OF STEEL ROUND/BARS

Dia (mm) x Dia (mm) x 0.00623 = Kg. Per Meter

WEIGHT OF STEEL HEXAGONAL BARS

Dia (mm) x Dia (mm) x 0.00679 = Kg. Per Meter

WEIGHT OF STEEL SQUARE BARS

Dia (mm) x Dia. (mm) x 0.00787 = Kg. Per Meter

Chemical Composition

Austenitic Steel No.	Steel No.	Cast Spec.	Italy Uni	C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	Fe	Nb+Ta	T.S. (Mpa)	Y.S. (Mpa)	Elog. %	Reduction %	Heat Treatment
303	1.4305	-	X10CrNi18.09	0.150	2.0	0.200	0.150	1.0	8.0-10.0	17.0-19.0	-	-	-	-	-	500-700	190	35	-	Sol.Tr.&Quench
304	1.4301	A351-Gr CF8	X5CrNi8.10	0.080	2.0	0.045	0.030	1.0	8.0-11.0	18.0-20.0	-	0.10	-	-	-	515	205	30	50	Sol.Tr.&Quench
304L	1.4306	A351-Gr CF3,CF3A	X2CrNi18.11	0.030	2.0	0.045	0.030	1.0	8.0-11.0	18.0-20.0	-	0.10	-	-	-	485	170	30	50	Sol.Tr.&Quench
304H	1.4948	A351-Gr. CF10	-	0.04-0.10	2.0	0.045	0.030	1.0	8.0-11.0	18.0-20.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
316	1.4401	A351-Gr. CF8M	X8CrNiMo17.13	0.080	2.0	0.045	0.030	1.0	10.0-14.0	16.0-18.0	2.0-3.0	0.10	-	-	-	515	205	30	50	Sol.Tr.&Quench
316L	1.4404	A351-Gr. CF3M	X2CrNiMo17.12	0.030	2.0	0.045	0.030	1.0	10.0-15.0	16.0-18.0	2.0-3.0	0.10	-	-	-	485	205	30	50	Sol.Tr.&Quench
316H	1.4919	A351-Gr.CF10M	-	0.04-0.10	2.0	0.045	0.030	1.0	10.0-14.0	16.0-18.0	2.0-3.0	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
316Ti	1.4571	-	-	0.080	2.0	0.045	0.030	1.0	10.0-14.0	16.0-18.0	2.0-3.0	0.10	-	-	-	515	205	30	50	Sol.Tr.&Quench
321	1.4541	-	X6CrNiTi18.11	0.080	2.0	0.045	0.030	1.0	9.0-12.0	17.0-19.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
321H	1.4878	-	-	0.04-0.10	2.0	0.045	0.030	1.0	9.0-12.0	17.0-19.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
309H	1.4833	-	-	0.04-0.10	2.0	0.045	0.030	1.0	12.0-15.0	22.0-24.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
310	1.4845	A351-CX20	X22CrNi25.20	0.250	2.0	0.045	0.030	1.0	19.0-22.0	24.0-26.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
310H	-	A351-CX20	X5CrNi18-10	0.04-0.10	2.0	0.045	0.030	1.0	19.0-22.0	24.0-26.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
317	1.4438	A351-Gr CG&8M	-	0.080	2.0	0.045	0.030	1.0	11.0-15.0	18.0-20.0	3.0-4.0	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
317L	-	-	-	0.030	2.0	0.045	0.030	1.0	11.0-15.0	18.0-20.0	3.0-4.0	-	-	-	-	485	170	30	50	Sol.Tr.&Quench
347	1.4550	A351-Gr-CF8C	-	0.080	2.0	0.045	0.030	1.0	9.0-13.0	17.0-20.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
347H	-	A351-Gr-CF8C	-	0.04-0.10	2.0	0.045	0.030	1.0	9.0-13.0	17.0-20.0	-	-	-	-	-	515	205	30	50	Sol.Tr.&Quench
904L	1.4539	-	X1NiCrMoCu25-20-5	0.020	2.0	0.040	0.030	1.0	23.0-28.0	19.0-23.0	4.0-5.0	0.10	1.0-2.0	-	-	490	215	35	-	Sol.Tr.&Quench
17-4 PH	1.4542	-	-	0.070	1.0	0.040	0.030	1.0	3.0-5.0	15.0-17.5	-	-	3.0-5.0	0.15-0.45	-	930	725	16	-	Sol.Tr.&Quench
2205	1.4462	-	-	0.030	2.0	0.030	0.015	1.0	6.50	22.0-23.0	3.50	0.20	-	Bal.	-	621	448	25	-	Sol.Tr.&Quench
2507	1.441	-	-	0.030	1.2	0.035	0.020	0.8	6.0-8.0	24.0-26.0	3.0-5.0	0.24-0.32	0.5	-	-	800	550	16	-	Sol.Tr.&Quench

Maraging Steel	C	Si	Mn	Ni	Co	Mo	Ai	Ti	Fe	T.S. (Mpa)	Y.S. (Mpa)	Elog. %
C250	0.30	0.10	0.100	17.0-19.0	7.0-8.50	4.60-5.20	0.05-0.15	0.30-0.50	BAL.	1860	1725	12

Nickel-Moly Chromium Alloy	Ni	Cr	Fe	C	Mn	Si	Mo	W	Co	V	P	S	Ai	Ti	Nb+Ta	T.S. (Mpa)	Y.S. (Mpa)	Elog %	Hardness Rockwell B
Alloy 276	Bal	14.5-16.5	4.0-7.0	0.01	1	0.08	15.0-17.0	3.0-4.5	3.0-4.5	0.35	0.04	0.03	-	-	-	690	283	40	100 (Max)
Alloy 625	58 (Min)	20.0-23.0	5.00	0.10	0.5	0.50	8.0-10.0	-	1.0	0.015	0.015	0.015	0.40	0.40	3.15-4.15	760	345	25	-
C276	Bal.	14.5-16.5	4.0-7.0	0.01	1	0.08	15.0-17.0	3.0-4.5	3.0-4.5	0.35	0.05	0.03	-	-	-	741	34.7	67	69 (HRB)

Nickel Chromium Alloy	Ni	Fe	Cr	Cu	Mo	Nb	C	Mn	P	S	Ti	Ai	Co	B	T.S. (PSI)	Y.S. (PSI)	Elog %	Hardness Rockwell B
Alloy 718	50.0-55.0	Rem.	17.0-21.0	0.3	2.80-3.30	4.75-5.50	0.08	0.35	0.015	0.015	0.035	0.65-1.15	1.0	0.006	13500	70000	45	100

Nickel Iron Chromium Alloy	Carbon C	Manganese Mn	Sulphur S	Silicon Si	Chromium Cr	Nickel Ni	Iron Fe	Molybdenum Mo	Copper Cu	Titanium Ti	Aluminium Ai	T.S. (N/mm)	Y.S. (n/mm2)	Elong %
Alloy 825	0.05	1.0	0.030	0.50	19.5-23.5	38.0-46.0	22.0 (Min)	2.5-3.5	1.50-3.0	0.6-1.20	0.2	590 Min	220 Min	30

Nickel Copper Alloy	Carbon C	Manganese Mn	Sulphur S	Silicon Si	Nickel Ni	Copper Cu	Iron Fe	Aluminium Ai	Sulphur S	T.S. (Ksi)	Y.S. (Ksi)	Elong %	Hardness (HRB)
Monel 400	0.03	2.0	0.024	0.50	63.0 (Min)	28.0-34.0	2.50	-	-	75-90	25-50	60-35	60-80
Monel 500	0.18	1.5	-	0.50	63 (Min)	27.0-33.0	2.00	2.30-3.15	0.010	6210758	276-414	45-251	75-90

Cu-Ni Metal	Copper-Cu	Nickel-Ni	Iron-Fe	Manganese-Mn	T.S. (N/mm2)	Y.S. (N/mm2)	Elong %
90/10	Rem.	10.5	1.5	0.75	300	105	30
70/30	Rem.	30	0.7	1	310	125	30

SMO 254	Carbon-C	Iron-Fe	Chromium-Cr	Nickel-Ni	Molybdenum-Mo	Nitrogen-N	T.S. (Mpa)	Y.S. (Mpa)	Elong. %
	0.010	55.0-69.0	20.00	18.00	6.10	0.20	680	300	50

Duplex/Super Duplex Steel	Steel No.	Casting	C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	W	T.S. (Mpa)	Y.S. (Mpa)	Elong. %	Reduction %	Hardness (BHN)	Heat Treatment
F50	-	-	0.030	2.0	0.045	0.030	1.0	5.50-6.50	24.0-26.0	1.20-2.00	0.14-0.20	-	-	690-900	450	25	50	-	Sol.Tr.&Quench
F51	1.4462	A351-CX3MN	0.030	2.0	0.030	0.020	1.0	4.50-6.50	21.0-23.0	2.50-3.50	0.08-0.20	-	-	620	450	25	45	-	Sol.Tr.&Quench
F52	-	-	0.030	2.0	0.035	0.010	0.60	3.50-5.20	26.0-29.0	1.0-2.50	0.15-0.35	-	-	690	485	15	-	-	Sol.Tr.&Quench
F55	1.4501	A995-CD3MWCuN/6A	0.030	1.0	0.030	0.010	1.0	6.0-8.0	24.0-26.0	3.0-4.0	0.20-0.30	0.50-1.00	1.50-2.50	750-895	550	15	30	-	Sol.Tr.&Quench
F60	-	-	0.030	2.0	0.030	0.020	1.0	4.50-6.50	22.0-23.0	3.0-3.5	0.14-0.20	1.50-2.50	-	655	450	25	50	-	Sol.Tr.&Quench

Steel	Steel No.	C	Mn	P	S	Si	Ni	Cr	T.S. (Mpa)	Y.S. (Mpa)	Elong. %	Reduction %	Hardness(BHN)	Heatreatment
F6A CL 2		0.150	1.0	0.040	0.030	1.0	0.50	11.5-13.5	585	380	18	35	167-229	Normalized&Temper
410	Martensitic 1.4006	0.150	1.0	0.040	0.030	1.0	0.60	11.50-13.50	450	205	20	-	217 Max	Annealed
420	Martensitic 1.4021	0.15 Min	1.0	0.040	0.040	1.0	0.60	12.0-14.0	700 Max	-	15	-	217 Max	Annealed
430	Ferritic 1.4016	0.120	1.0	0.040	0.030	0.75	0.50	16.0-18.0	415	240	20	45	190 Max	Annealed
440C	Martensitic 1.4125	0.95-1.20	1.0	0.040	0.030	1.0	-	16.0-18.0	758	448	10	-	-	Annealed
416	Martensitic 1.4005	0.15	1.25	0.060	0.15 min.	1.0	1.25-2.50	12.0-14.0	500	280	20	-	-	Annealed
431	Martensitic 1.4057	0.20	1.0	0.040	0.030	1.0	1.25-2.50	15.0-17.0	850	665	12	-	-	Annealed
409	Ferritic 1.4512	0.03	1.0	0.040	0.030	1.0	0.50 Max	10.50-11.75	515	170	20	-	179 Max	Annealed

Chemical Composition

Alloy Steel	Cast Spec.	Din. W. No.	Type	C	Mn	P	S	Si	Ni	Cr	Ni	Cr	Mo	T.S. (Mpa)	Y.S. (Mpa)	Elong. %	Reduction%	Hardness (BHN)	Heat Treatment
F11 CL1	A217-WC6	1.7335	1.1/4Cr1/2Mo	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	-	1.00-1.50	0.44-0.65	415	205	45	121-274	45	121-274	Normalised& Tempered	
F11 CL2	A217-WC6	1.7335	1.1/4Cr1/2Mo	0.10-0.20	0.30-0.80	0.040	0.040	0.50-1.00	-	1.00-1.50	0.44-0.65	485	275	30	143-207	30	143-207	Normalised& Tempered	
F11 CL3	A217-WC6	1.7335	1.1/4Cr1/2Mo	0.10-0.20	0.30-0.80	0.040	0.040	0.50-1.00	-	1.00-1.50	0.44-0.65	515	310	30	156-207	30	156-207	Normalised& Tempered	
F12 CL1	-	1.7335	1Cr1/2Mo	0.05-0.15	0.30-0.60	0.045	0.045	0.50max	-	0.80-1.25	0.44-0.65	415	220	45	121-174	45	121-174	Normalised& Tempered	
F12 CL2	-	1.7335	1Cr1/2NiMo	0.10-0.20	0.30-0.80	0.040	0.040	0.10-0.60	-	0.80-1.25	0.44-0.65	485	275	30	143-207	30	143-207	Normalised& Tempered	
F22 CL1	A217-WC9	1.7380	2.1/4Cr1Mo	0.05-0.15	0.30-0.60	0.040	0.040	0.50	-	2.00-2.50	0.87-1.13	415	205	35	170 max	35	170 max	Normalised& Tempered	
F22 CL3	A217-WC9	1.7380	2.1/4Cr1Mo	0.05-0.15	0.30-0.60	0.040	0.040	0.50	-	2.00-2.50	0.87-1.13	515	310	30	156-207	30	156-207	Normalised& Tempered	
F5	A217-W5	1.7362	5Cr1/2Mo	0.15	0.30-0.60	0.030	0.030	0.50	0.50	4.00-6.00	0.44-0.65	485	275	35	143-217	35	143-217	Normalised& Tempered	
F9	A217-C12	1.7386	9Cr1Mo	0.15	0.30-0.60	0.030	0.030	0.50-1.00	-	8.00-10.00	0.90-1.10	585	380	40	179-217	40	179-217	Normalised& Tempered	

Alloy Steel	Cast Spec.	Din. W. No.	Type	C	Mn	P	S	Si	Ni	Cr	Mo	Nb	N	Ai	V	Zr	W	B	I.S. (Mpa)	Y.S. (Mpa)	Elong. (Mpa)	Reduction%	Hardness (BHN)
F91	A217-C12A	1.4903	9Cr1MoV	0.08-0.12	0.30-0.60	0.020	0.010	0.20-0.50	0.40	8.0-9.5	0.85-1.05	0.06-0.10	0.03-0.070	0.020	0.18-0.25	0.010	-	-	620	415	20	40	190-248
F92	-	1.4901	X10CrWMoVNb9-2	0.07-0.13	0.30-0.60	0.020	0.010	0.50	0.40	8.5-9.0	0.30-0.60	0.04-0.09	0.03-0.070	0.020	0.15-0.25	0.010	1.5-2.0	0.001-0.006	620	440	20	45	269 Max

Carbon Steel	Casting	C	Mn	P	S	Si	Ni	Cr	Mo	Nb	V	Cu	T.S. (Mpa)	Y.S. (Mpa)	Elong. %	Reduction%	Hardness (BHN)	Heattreatment
A105	A216-WCB, WCC	0.35	0.60-1.05	0.035	0.040	0.10-0.35	0.4	0.3	0.12	-	0.08	0.4	485	250	30	30	187 Max	Normalized
LF2	A352-LCB, LCC	0.30	0.60-1.35	0.035	0.040	0.15-0.30	0.4	0.3	0.12	0.02	0.08	0.4	485-655	250	22	30	-	Normalized

Carbon Steel	Manganese	Phosphorus	Sulfur	Silicon	Nickel	Chromium	Molybdenum	Nitrogen	Copper	Iron	Columbium	Tantalum	Cobalt	Aluminium	Titanium	Tungstan	Vandium	Boron
C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	Fe	Nb	Ta	Co	Ai	Ti	W	V	B

Tin	Cerium
Sn	Ce

CASTING / FORGING / BARSTOCK CROSS REFERENCE

DESCRIPTION	UNS GRADE	FORGING	CASTING	BARSTOCK
Carbon Steel	K30504	A105	A216 WCB	A105
Low-temp. carbon	K03011	A350 LF2	A352 LCB	A350 LF2
High-yield Steel	K03014	A694 F60	-	A694 F60
3-1/2 nickel steel	K32025	A350 LF3	A352 LC3	A350 LF3
5 Chrome, 1/2 moly	K14545	A182 F5	A217 C5	A182 F5
1 1/4 chrome, 1/2 moly	K11597	A182 F11	A217 WC9	A739 B11
2 1/4 chrome moly, 1 moly	K21590	A182 F22	A217 WC9	A739 B22
9 chrome, 1 moly	K90941	A182 F9	A217 WC6	A182 F9
13 chrome	S41000	A182 F6A	A351 CA15	A276 or A479 410
304	S30400	A182 F304	A351 CF8	A276 or A479 304
304L	S30403	A182 F304L	A351 CF3	A276 or 479 304L
316	S31600	A182 F316	A351 CF8M	A276 or A479 316
316L	S31603	A182 F316L	A351 CF3M	A276 or A479 316L
317L	S31703	A182 F317L	A351 CG8M	A276 or 479 317L
321	S32100	A182 F321	-	A276 or A479 321
347	S34700	A182 F347	A351 CF8C	A276 or A479 347
17-4pH	S17400	A564 630	A564 630	-
Alloy 400	N04400	B564 N04400	A494 M35-1	B164 N04400
Alloy K500	N05500	-	-	B865 N05500
Alloy 800	N08800	B564 N08810	-	B408 N08800
Alloy 825	N08825	-	-	B425 N08825
Alloy 600	N06600	B564 N06600	A494 CY40	B166 N06600
Alloy 625	N06625	B564 N06625	A494 CW6MC	B446 N06625
Alloy B2	B10665	B564 N10665	A494 N 12MV	B335 N10665
Alloy C	N1002	-	A494 CW6M	-
Alloy C22	N06022	B574 N06022	A494 CX2MW	B574 N06022
Alloy C276	N10276	B564 N10276	A494 CW12 MW	B574 N10276
22% duplex	S13803	A182 F51	A890 Gr. 4A	A276 or A479 S31803
25% duplex	S32750 or 32760	A182 F53	A890 Gr. 6A	A276/479 S32750 or 60
2545MO	S31254	A182 F44	A351 CK3MCuN	A182 F44
904L	N08904	B625 N08904	-	B649 N08904
Titanium	R50400	B381 F2	B367 C2	B348 Gr. 2

Quality Assurance

Our advanced inspection equipments and experienced quality control staff assure defect free products in accordance with users requirements.

Chemical Analysis



Chemical Analysis

This test is done as per required quality

Corrosion test

Corrosion test

To ascertain the vulnerability of material to intergranular attack or to measure the rate of corrosion in adverse environment, corrosion testing as per ASTM A-262 Practice 'A', 'B', 'C' & 'E' is carried out in the company's lab.



Mechanical testing



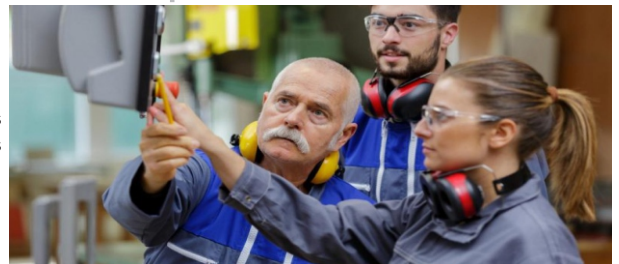
Mechanical testing

Tensile 0.2% proof test hardness, flare, flatterring, flange, and reverse-bend tests are carried out in full compliance as per various standards. This ensure trouble-free expansion, welding and use at customers end.

Air under pressure test

Visual Inspection

Our trained staff inspects every single length of tubes and pipes subjected to through visual inspection to detect the surface flaws and other imperfections.



Marking



Marking

Latest in-jekt marking machine is used to mark the information as required by the standards i.e. Brand name, Size, Grade, Specification, Heat No., Lot No. To ensure complete identification and trace-ability.



Austenitic Steel
400 Series
Ferritic Steel
Austenitic Steel
Martensitic Steel
300 Series
Alloy Steel
Precipitation Hardening Steel
Aluminium Alloy
Duplex Steel
Stainless Steel
400 Series
Cupro-Nickel
Ferritic Steel
ASTM
400 Series
Ferritic Steel
Martensitic Steel
Inconel
Monel
Precipitation Hardening
Alloy Steel
Carbon Steel
Stainless Steel
Duplex Steel
Austenitic Steel
Nitronic
Titanium
Hastelloys
Austenitic Steel

MAX FORGE

Regd. Office : 4, Varsha Bldg., 2nd Khetwadi Lane, Mumbai - 400 004,
Maharashtra, India. • Tel.: +91-22-2382 2240
Email : contact@maxforge.com • URL : www.maxforge.com