

APOCALYPSE STEEL AND POWER LIMITED

CIN NO : U27300WB2017PLC222752 GSTIN NO : 19AAQCA0268D1ZN

CORPORATE OFFICE

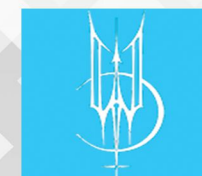
241, MAHARAJA N.K ROAD
P.O. : ALAMBAZAR
KOLKATA - 700036
STATE : WEST BENGAL (INDIA)

REGISTERED OFFICE

275 C,M SHAH, ROAD
PO+PS-BARRACKPORE
KOLKATA-700120
STATE: WEST BENGAL (INDIA)

Website : www.apocalypsesteelandpower.net
Email Id : sales@apocalypsesteelandpower.com
cmd@apocalypsesteelandpower.com

Contact No : 09874030149 / 09874030628 / 09874030661



APOCALYPSE STEEL AND POWER LIMITED

Contact No : 09874030149 / 09874030628 / 09874030661

Website : www.apocalypsesteelandpower.net
Email Id : sales@apocalypsesteelandpower.com
cmd@apocalypsesteelandpower.com

Apocalypse Steel & Power Ltd. TMT Bars

Apocalypse Steel & Power Ltd. TMT is the latest generation or ribbed, high strength, thermomechanically treated reinforcement bars that are popular the world over. The company has been the first in Eastern India to introduce the state-of-art Thermex process under licence from HSE, Germany to produce these bars in grade designated as Apocalypse Steel & Power Ltd. MAT Fe 415 and Apocalypse Steel & Power Ltd. TMT Fe 500 with different mechanical properties.

The Thermex MAT process features rapid cooling of heated bars periphery. This transforms the peripheral structure to martensite, which is then annealed through the heat available at the core. The resultant bar structure is of tempered martensite on the outer surface and of fine-grained ferrite-pearlite at the core, imparting high strength, toughness and ductility.

Thermo-mechanically treated (TMT) reinforcement bars are today essential for any serious construction. For load bearing applications they have completely replaced CID and plain bars on account of their remarkable weight to strength ratio.

"All blooms and billets are procured from SAIL Laboratory testing of samples"



Structurals

Structural steel is steel construction materials, a profile, formed with a specific shape or cross section and certain standards of chemical composition and strength. Structural steel shape, size, composition, strength, storage, etc., is regulated in most industrialized countries. Structural Steels shape structure on mathematical geometry and solely depend on 90°.

The structural mill produces a variety of hot rolled products such as angles, channels and beams and joists, as well as flats and rounds of various dimensions. The versatile range includes a cross section of special contours for bridges, buildings, transmission towers, industrial structures as well as (or automobile and stripping industries). An online straightening machine ensures accuracy of analysis, which is particularly important for transmission towers.

The strength and quality consistency make AM structural products a favourite among leading engineering and construction companies. All raw materials are sourced from SAIL. Each batch is subjected to stringent tests. Samples from every cast are sent for chemical analysis, tensile and bend tests. Where required, impact spectromax testing is also undertaken. Finally, pre-shipment inspection ensures that only flawless pieces are dispatched. When we AM, you are sure.

Trust by the Best

Over the years, Apocalypse Steel & Power Ltd. has developed an enviable roster of customers in India. As well as growing export market in Nepal, Bhutan etc. We are enlisted with numerous Government departments and multinational companies, who recognize the quality of our steel. Noteworthy approvals include power Grid Corporation for MS angles and Military Engineering Services (MES) for TMT and Structural sections. Many prestigious buildings have been made with our steel.

► STRENGTH

Apocalypse Steel & Power Ltd. are available in AR TMT Fe . 415/ 500. Apocalypse Steel & Power Ltd. STRUCTURAL Fe : 410/440/490/540 grades which are much stronger than ordinary steel and give a 20% stronger concrete structure with a same quantity of steel.

► STRENGTH

Apocalypse Steel & Power Ltd. are available in AR TMT Fe . 415/ 500. Apocalypse Steel & Power Ltd. STRUCTURAL Fe : 410/440/490/540 grades which are much stronger than ordinary steel and give a 20% stronger concrete structure with a same quantity of steel.

► THERMAL STABILITY

Apocalypse Steel & Power Ltd. have high thermal stability unlike other ordinary steel. It can be used even at high temperature till 600°C without any loss in strength.

► BEND PROPERTIES

Apocalypse Steel & Power Ltd. possesses excellent bendability due to the unique feature of uniform elongation.

► WELD PROPERTIES

Apocalypse Steel & Power Ltd. have very good weldability. They do not suffer from loss of strength at the weld joints.

► CORROSION RESISTANCE

Apocalypse Steel & Power Ltd. shows virtually no rusting even after a long time due to the absence of any residual stress.

► EARTHQUAKE PROOF

Apocalypse Steel & Power Ltd. can be used in Earthquake zones as it guarantees better elongation.

► COASTAL STEEL

Apocalypse Steel & Power Ltd. are rolled from IS 2830 Billets all procured from SAIL to produce CRS Steels, which provides better stability and function in coastal region.

► FATIGUE RESISTANCE

Apocalypse Steel & Power Ltd. have high fatigue resistance on dynamic loading on account of the high strength of the surface layer.

► FIRE RESISTANCE

Apocalypse Steel & Power Ltd. have higher thermal stability which makes it safer in fire hazards.

► QUALITY ASSURANCE

Apocalypse Steel & Power Ltd. uses the in-house state-of-the-art laboratory with modern and advanced machineries such as SPECTROMAX, PIA, Impact.

► SAVINGS

Apocalypse Steel & Power Ltd. extra strength, means more savings too. It saves steel up to 20%.

Apocalypse Steel & Power Ltd.

The 21st century has marked good times for the Indian steel industry. Both domestic and international demand has been robust. For producers like AM, the boom in the infrastructure sector has fuelled demand from the construction industry. Almost all steel companies have done well and we are no exception.

Good times, however, do not last forever. In our quarter century of industry experience we have seen the ferrous cycle rise, fall and rise again. We have learnt that what survives is quality—and the trust of customers.

In the last few years we have consistently invested in budding a modern and plant implementing quality systems and processes. Today we use steel as the best raw material, process it with the best equipment and follow best practices to assure quality products.

I hope you will give us the opportunity to MP your trust.

The Making of Quality

Located in Hooghly . The Industrial hub of West Bengal, Apocalypse Steel & Power Ltd. is the first automatic plant in Eastern India to Produce Thermax TMT bars as well full range of structural steels.

It is the only plant in the region to be certified ISO 9001: 2000 for quality processes, ISO 14001:2004 for environment management. such as 1801786:1985 and ISO 2062:2006 have also been obtained.

The modern plant incorporates a complete Thermex treatment system and a structural mill. The complete range of requirements can therefore be met under one roof. Hooghlyt being one of India's premier steel hubs. the billets are locally procured from Steel Authority of India. Proximity to other raw materials and markets means that AM products are competitively priced despite their superior quality.



Applications Segments

Sanction

Industrial, Hospital, Institution Buildings, Exhibition Halls, Stadiums. Railway and is stations. offshore structures.

Agriculture 6 Rural areas

Machinery, Storage tanks, Brain hits. Bullock Carts, Meeting Halls

Infrastructures

Bridges, Flyovers, Foot Bridges. Culverts and RCC Structures. Notional Highways, Roads, Aiport.

Oil, Gas & Power

Walls, Platforms. Jetty. Nuelearfilmarmt/Hydro Powgr, Nod Mills and items related to power.

Transport

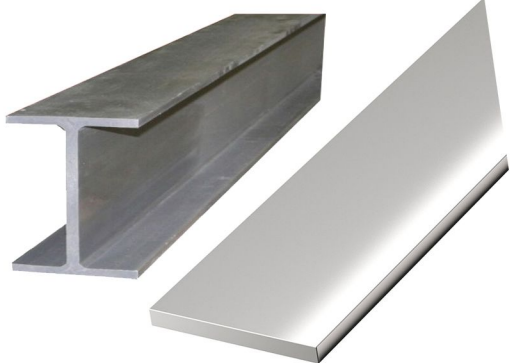
Railways, Metro Raihrays, Sky Bus. BJSES, Trucks, Lunn Coaches. Cars

Electrical & Electronics

Transformer core, Motors. Transmission line Towers. HT 111. RelitrlT. Sub stations, Jumper house, TL Hard-ware.

Product Range	
TMT Bars	8 min to 32 mm
Angles	35 mm 200 mm
Channels	75 mm to 400 mm
Beams / Joists	100 mm to 203
H-Beams	150 mm to 203 mm
Rounds	upto 160 mm
Flats/Patta	upto 400 mm

Certifications	
ISO	9001
ISI	1786:1985
ISI	2062:2006
HSD Bars	Thermex



MS-H BEAM					
Size	Flang	WEB Thickness	R1	R2	Standard
HB 150 X 150	9.0	11.8	8.0	4.0	34.600
SC 152 X 152	11.9	7.9	11.7	3.0	37.100
WB 203 X 152	16.5	8.9	15.5	7.6	52.000

TMT BARS	
Size(mm)	Weight Kg/m
8	0.395
10	0.617
12	0.888
16	1.580
20	2.470
25	3.830
28	4.830
32	6.310



MS BEAM						
Size	Flang	WEB Thickness	R1	R2	Standard	
125 X 70	8.0	5.0	9.0	4.5	13.350	
150 X 75	8.0	5.0	9.0	4.5	15.000	
175 X 75	9.0	5.8	10.0	5.0	19.600	
200 X 100	10.0	5.7	11.0	5.0	24.200	
250 X 125	12.5	6.9	13.0	6.5	37.300	
300 X 140	13.1	7.7	14.0	7.0	46.000	
350 X 140	14.2	8.1	14.0	7.0	52.400	

MS CHANNEL					
Size	Flang	WEB Thickness	R1	R2	Standard
75 X 40	7.5	4.8	8.5	2.4	07.140
100 X 50	7.7	5.0	9.0	2.4	09.560
125 X 65	8.2	5.3	9.5	2.4	13.100
150 X 75	9.0	5.7	10.0	2.4	16.900
200 X 75	11.4	6.2	11.0	3.2	22.300
250 x 82	14.1	9.0	12.0	3.2	34.200
300 X 90	13.6	7.8	13.0	3.2	36.300
400 X 100	15.3	9.8	15.0	4.8	50.100

Ferro Vanadium	
V	50% Min
Si	1.5% Max
Al	1.00% Max
S	0.04% Max
Carbon	0.10% Max
Size	10-70mm or as required by end user



Ferro Vanadium - Chemical Analysis	
V	78.00% Min
Si	1.50% Max
Al	1.00% Max
P	0.10% Max
C	0.25% Max
S	0.04% Max
Cu	0.25% Max
Size	10.50mm or as required by end user

PIG Iron - Foundry	
C	3.5% Max
Si	2.5% Max
S	0.06% Max
P	0.12% Max
Mn	0.5-0.75% Max



Ferro Malybdenum	
Mo	60-65%
Si	2.5% Max
p	0.1% Max
S	0.15% Max
C	0.15% Max
Cu	0.5% Max
Size	10-15mm – Min 90% or as required by end user

Ferro Boron

Ferro Bench is a binaivelloy of. iron with a boron content of 17.5% to 20%.11 is the fewest cost boron additive for steel and other fern** metals. Used to Improve the harden: Sty of C.k and 'owalloy steels for the improvement of steel, nttrogen scavenging and In mind,/ acidified materials Low loss materials for transformer cores. tkf ea magnets. Saeases hot workehlIN and creep resistance, Improves ,lictucn absoco on. Prodtiction of low carbon cold wthng *e rod. Production of automotive sheet steels.

Noble Alloys

Nk etfet a vedc range of Noble Alloys, which are used In various indttstries. Ors tango of allow are very high qualityand pure. Our (Bents Can avail these alloys from us at very reasonable pekes in standard 6 CUSIONliThd sired both.

Ferro Titanium 1 Feno Niobium

Ferro Titanium. Ferro Niobium FERRO TITANIUM • 30% Cheering Analysts Guaranteed:

Ti	28-73%
Al	8% Max
Si	4% Max
C	0.12% Max
P	0.04% Max
S	0.03% Max
Size 10-50mm, 50-70mm, 10-100mm or as required by end user	

FERRO TITANIUM - 70% Chemical Analysis Guaranteed :

Nb	62-70%
Si	3% Max
C	0.25% Max
Size 15-70mm, +10% tolerance allowed or as required by end user	

FERRO Niobium - Chemical Analysis :

Ti	65-75%
Al	0.5% Max
Si	0.10% Max
Mn	0.20% Max
C	0.20% Max
P	0.04% Max
S	0.03% Max
Size 10-50mm, 50-70mm, 10-100mm or as required by end user	

Angles

Section	Mass KG/M	Root Radius (mm)	Section	Mass KG/M	Root Radius (mm)
35X35X3	1.6	5.0	90X90X6	8.2	8.5
4	2.1	5.0	7	9.6	10.0
5	2.6	5.0	8	10.8	8.5
6	3.0	5.0	10	13.4	8.5
40X40X3	1.8	5.5	100X100X6	9.2	8.5
4	2.4	5.5	7	10.7	12.0
5	3.0	5.5	8	12.1	8.5
45X45X3	2.1	5.5	10	14.9	8.5
4	2.7	5.5	110X110X8	13.4	10.0
5	3.4	5.5	10	16.6	10.0
6	4.0	5.5	12	19.7	10.0
50X50X3	2.3	6.0	120X120X8	14.7	13.0
4	3.0	6.0	10	18.2	13.0
5	3.8	6.0	12	21.6	13.0
6	4.5	6.0	130X130X8	15.9	10.0
55X55X4	3.3	6.5	10	19.7	10.0
5	4.1	6.5	12	23.5	10.0
60X60X4	3.7	8.0	16	30.7	10.0
5	4.5	6.5	150X150X10	22.9	12.0
65X65X4	4.0	6.5	12	27	12.0
5	4.9	6.5	15	33.8	16.0
6	5.8	6.5	16	35.8	12.0
8	7.7	6.5	18	40.1	16.0
70X70X5	5.3	7.0	20	44.1	12.0
6	6.3	7.0	200X200X12	36.9	15.0
75X75X5	5.7	7.0	16	48.5	15.0
6	6.8	7.0	18	54.0	15.0
8	8.9	7.0	20	60.0	18.0
10	11.0	7.0	24	71.1	18.0
80X80X6	7.3	8.0	25	73.9	15.0
8	9.6	8.0			

PLEASE NOTE: Different sizes in different dimensions can be rolled if sufficient order is received.

Ferro Alloys

Ferro Alloys are being used for making alloy steel, stainless steel & other special steels. It is being mixed with scrap for making different grades of steels. There are various types of alloys such as Mn, Si, Cr, Ti, Mo.

Ferro Silicon			
Si	70-72%	73-75%	75%Min
Al	1% Max	0.80% Max	0.80% Max
C	0.15% Max	0.12% Max	0.10% Max
	0.02% Max	0.02% Max	0.02% Max
P	0.04% Max	0.04% Max	0.04% Max
Cr	0.03% Max	0.03% Max	0.03% Max
Li	0.02% Max	0.02% Max	0.02% Max

Size : As per customer's request ranging between 10 to 150mm.
Packing : Loose in Bulk or in 1 MT Big Bags as per customer's request.

Ferro Silico Manganese		
Mn	60% Min	65% Min
Si	14% Min	16% Min
C	2.50% Max	2.20% Max
P	0.30% Max	0.30% Max
	0.30% Max	0.03% Max

Size : As per customer's request ranging between 10 to 150mm.
Packing : Loose in Bulk or in 1 MT Big Bags as per customer's request.

Ferro Chrome		
Test Name	LC Ferro Chrome	HC Ferro Chrome
Cr% Min	66.11%	>66%
C% Max	0.070%	8%
P% Max	0.030%	0.03%
S% Max	0.006%	0.05%
Si% Max	0.10%	2.0%
Al% Max		0.06%



Ferro Chrome / Ferro Phosphorus

These are considered as an excellent alloy of iron with chromium, which find application for producing steel and various other industrial process

Ferro Manganese		
Mn	60-65%	70-75%
Si	3.5% Max	1% Max
C	6% - 8% Max	0.1% Max
P	0.05% Max	0.02% Max
S	0.05% Max	0.02% Max



Ferro Phosphorus	
Type	Cr%
P	23-25% Min
Si	2% Min
C	1% Max
Mn	2% Max
S	0.5% Max

Calcium Silicon	
Calcium Silicon it is a	
Product Code	Product
CA-SI-02	(2N) 99% Calcium Silicon Alloy.
CA-SI-03	(3N) 99.9% Calcium Silicon Alloy
CA-SI-04	(4N) 99.9% Calcium Silicon Alloy
CA-SI-05	(5N) 99.9% Calcium Silicon Alloy

Silicon Manganese

It is widely used as compound steel-making

Grade Mark	FeMn65Si17	FeMn60Si17	FeMn65Si14	FeMn60Si14
Mn	65-70	60-70	65-70	60-70
Si	17-20	17-20	14-17	14-17
C	1.8	1.8	2.5	2.5
P	0.20	0.20	0.20	0.30
S	0.04	0.04	0.04	0.04

