

A Superior TMT Bar from Steel Division of the Monnet Group, a Primary Steel Producer.

Established in 1994, Monnet Ispat & Energy Limited (MIEL) commenced its business as a producer of coal based sponge iron and ferro alloys. Over the years, the company has grown to become the second largest coal based sponge iron producer in the country with manufacturing facilities at Raigarh and Raipur, Chhattisgarh.

As yet another leap forward, MIEL has expanded its Raigarh plant to become a fully integrated 1.5 MTPA steel producer. The integrated steel manufacturing facility includes the following:

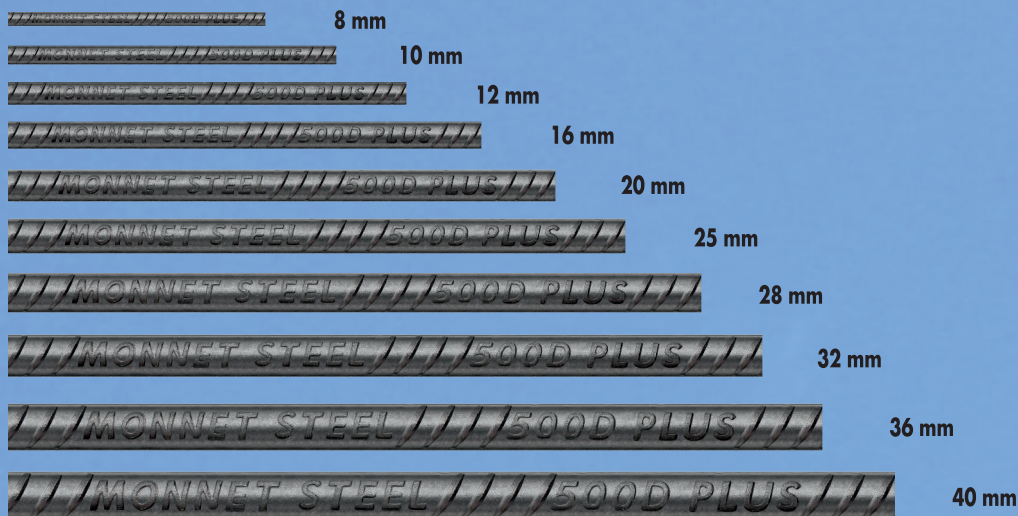
Iron Making: DRI Plants, Sinter Plant, Blast Furnace and Pellet Plant.

Steel Making: The State-of-art Melting & Refining facilities viz. UHP/EBT Electric Arc Furnaces, Ladle Refining Furnaces, Multi Nozzle Type VD Unit, Slab Caster & 6 strand Combi Billet Caster

Finishing Mills: State of the art Bar Mill, with technical know-how from NCO Italy and a 2500 mm wide Plate & 1550 mm wide Strip Steckel Mill.

Product Range from Steel Division of Monnet Group includes:

- TMT Bars from 8mm to 40mm sizes
 - 500D PLUS grade for retail & general sale
 - Other higher grades viz. Fe 500S, Fe 550D etc as per IS 1786:2008
 - Customised grades like High Corrosion Resistant (HCR) against specific project requirements
- Medium and high strength Structural (I-beams, Channels, Angles) up to 500 mm size
- Plates of Structural, Boiler Quality and API grades in width up to 2500 mm, thickness range from 8mm to 120 mm, in length as per customers' requirement
- Cast rounds up to 350 mm diameter for seamless pipes and blooms upto 280 x 320 mm



Available in standard length of 12 meters



IS:1786-2008



CM/L-2586672

PROPERTIES OF MONNET STEEL TMT BARS:

Chemical Composition

ELEMENTS	% VALUE					
	IS 1786:2008 (MAX)			MONNET STEEL TMT (TYPICAL)		
	Fe 500	Fe 550	Fe 500D/550D/500S	500D Plus	550D Plus	500S Plus
%C	0.30	0.30	0.25	0.20	0.20	0.22
%Mn	-	-	-	0.70	0.80	0.90
%N2 (PPM)	-	-	120	120	120	120
%S	0.055	0.055	0.040	0.035	0.035	0.030
%P	0.055	0.055	0.040	0.035	0.035	0.030
% (S+P)	0.105	0.100	0.075	0.070	0.065	0.055



**Mass per meter of
MONNET STEEL TMT**

Nominal Size (mm)	Mass (Kg)	per meter (Batch)
	Max	Min
8	0.395	0.367
10	0.617	0.574
12	0.888	0.844
16	1.58	1.50
20	2.47	2.40
25	3.85	3.73
28	4.83	4.68
32	6.31	6.12
36	7.99	7.75
40	9.86	9.56

Mechanical Properties

PROPERTY	VALUE							
	IS 1786:2008 (MIN)					MONNET STEEL TMT (TYPICAL)		
	Fe 500	Fe 550	Fe 500D	Fe 550D	Fe 500S	500D Plus	550D Plus	500S Plus
Yield Strength 'YS' (MPa)	500	550	500	550	500	525	565	515
Ultimate Tensile Strength 'UTS' (MPa)	545	585	565	600	625	600	625	645
Ratio of UTS/YS	1.08	1.06	1.10	1.08	1.25	1.14	1.10	1.25
% Elongation 'EL'	12	10	16	14.5	18	18	16	20

Advantages of MONNET STEEL TMT Bars:

- A product from **primary steel producer** made from Billets manufactured in Monnet's 1.5MTPA Integrated Steel Manufacturing facility
- Earthquake Resistant – Higher flexibility, Strength and UTS/YS Ratio as level of impurities (S & P) are much below IS 1786:2008 standard
- Close Dimensional tolerance control on Mass(Kg)/Meter yielding higher meterage of Monnet Steel TMT Bars for same weight while conforming to IS:1786.
- Superior Bendability, Longevity and Weldability
- Assured compact bonding with concrete for strong constructions through deep routed ribs
- The entire feed stock is from billets made through close casting route which is unique to ensure International standard with consistency
- Against specific customer requirements MIEL can produce higher grades like Fe 500S, FE 550D, High Corrosion Resistant (HCR) Re-bars for marine & coastal applications etc
- Excellent tempered Co-centric Martensitic Ring with Fine Ferrite-Pearlite Core at the centre ensuring unique combination of higher strength and ductility
- Free from Eutectoid Angular Carbide and Carbon dispersed uniformly in tempered structure avoiding Tri-axial Stresses
- Easy availability through extensive pan India distributor network & stockyards
- Quality Management through well-equipped in-house testing facilities handled by a team of qualified professionals backed by a strict QMS

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