

TEMPCORE™ Technology the most effective processes in the production of TMT bars developed by the Centre de Recherche Metallurgiques (CRM) Belgium.

1

Rolling steel billet in to steel rods by passing through rolling mill.

2

Rolled steel rods are passed through the **TEMPCORE™ quenching system**

3

Through the **TEMPCORE™ quenching system**, water pressure is optimised

4

Manufacturing process

Sudden quenching and drastic change in temperature toughen the outer layer of the steel bar

5

In order to equalise the temperature difference between the soft inner core and the tough exterior the **atmospheric cooling process** is done

6

Tuning the bars into ferrite-pearlite structure by quenching and self-tempering process.

7

Authorised Dealer

SSI TMT Standard

Size	Std. Wt. (Kg/Mtr.)		Piece Wt. (12.200 Mtr.)		Bundle Wt.		Pieces in Bundle
	Min	Max	Min	Max	Min	Max	
8	0.370	0.390	4.514	4.758	45.140	47.580	10
10	0.580	0.610	7.076	7.442	49.532	52.094	7
12	0.850	0.880	10.370	10.736	51.850	53.680	5
16	1.520	1.560	18.544	19.032	55.632	57.096	3
20	2.430	2.460	29.646	30.012	59.292	60.024	2
25	3.780	3.840	46.116	46.848	46.116	46.848	1
28	4.700	4.810	57.340	58.682	57.340	58.682	1
32	6.200	6.300	75.640	76.860	75.640	76.860	1

Mechanical specification: BIS Standard vs SSI TMT

Properties	Fe 550D Grade	
	IS:1786-2008	SSI TMT
Yield Stress-N/mm ² (Min.)	550	570
Tensile Strength-N/mm ² (Min.)	600	640
TS/YS Ratio(Min.)	1.08	1.11
Elongation %(Min.)	14.5	17.0
Total Elongation %(Min.)	5	6

Chemical specification: BIS Standard VS SSI TMT Fe550D Grade

Properties	Fe 550D Grade	
	IS:1786-2008	SSI TMT
Constituent(%)		
Carbon(Max)	0.25	0.23
Sulphur(Max)	0.040	0.035
Phosphours(Max)	0.040	0.035
S&P(Max)	0.075	0.060

HEAD OFFICE

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FACTORY-1

No.15/1 Abc, 16, 17/1ab 2a, Vasanadu Gollapalee, Kuppm Mandal, Andhra Pradesh, Chitoor-517425.

FACTORY-2

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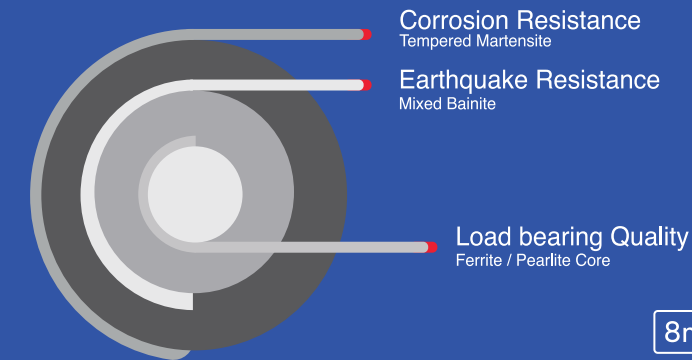
Driven by the passion to serve the construction industry and provide greater reinforcement to the structures of future India, SSI TMT as a division of Sakthi Steel at an exponential pace achieved its dominant position in the steel market. Striving for quality and enduring strength **SSI TMT constantly delivers the supreme grade TMT Bars.**

SSI TMT Bars are of superior quality & strength!

Accreditation



Three layers depicting the international quality



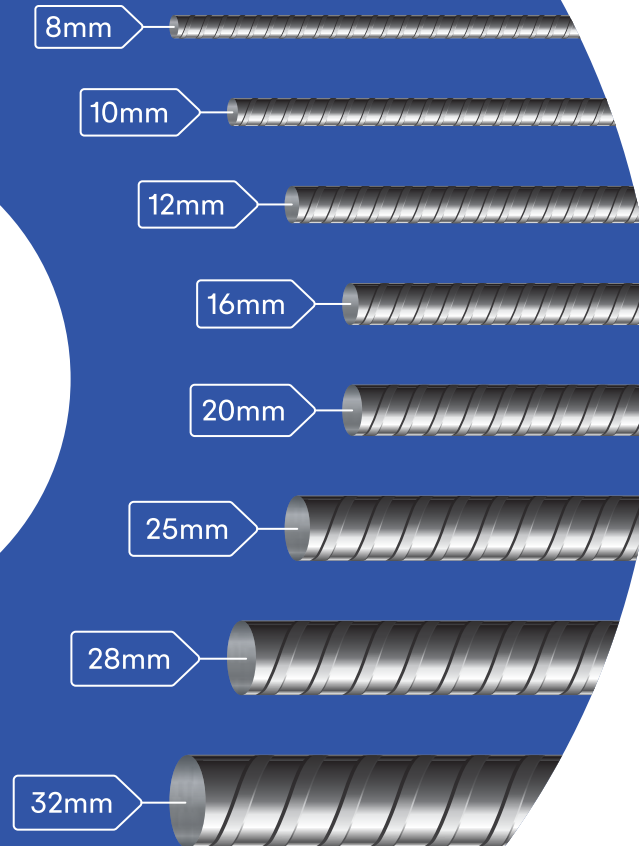
Fe
550D

Fe stands for Iron out of which the TMT bars are made.

550 implies the minimum yield stress in MPa.

D implies ductility which means that the steel bars have a higher percentage of elongation.

Fe 550D with lower quantities of carbon, sulphur and phosphorous, helps in preserving the steel and resisting earthquake shocks and fatigue. **Thus making it as the best variant possible made to build futuristic structures.**



Product advantages

Enhanced strength & durability



World class & leading - edge technology

Corrosion resistant



High thermal & fatigue resistance

Good ductility



Earthquake resistant