

Quality

PREMIUM TMT BAR

Fe 550D

QUALITY TMT

AAJ KA
NIRMAAN
KAL KI
PEHCHAAN

IS : 1786



CM/L/5500115294



Quality TMT bars have a rich history and endowment in the field of Iron & Steel Industry. The experienced apex management and its associates have extensive knowledge of the industry and operate with state-of-the-art infrastructure to create products that meet stringent quality requirements.

**QUALITY for
SUPERIORITY**

**SUPERIORITY
in QUALITY**



Quality TMT promises **excellence and transparency.**

Born out of innovation and the most advanced & sophisticated technology, **Quality TMT** bars aim to establish its presence in the market segment for the equipped production of high quality TMT bars. Manufactured and practiced under continuous supervision of QC parameters, with high ductility, elongation & weldability, the TMT bars tend to resist earth quakes and the high impact of aftershocks.

Quality
PREMIUM TMT BAR

EXPECTATIONS

Quality TMT bars follow best practices with advanced technology for accelerated growth that has been driven principally by the company's strategic skills and customer focus approach to meet the current and future challenges in an efficient and financially sustainable way to satisfy customer needs and add value to money.

FORMULATION

Eastern India's most trusted and valuable brand in the segment of TMT bars, **Quality TMT** bars play a pivotal role in achieving the creditable portion of the emerging market's needs for the highest quality standards with uniformity in grade and dimensions.

PRODUCT

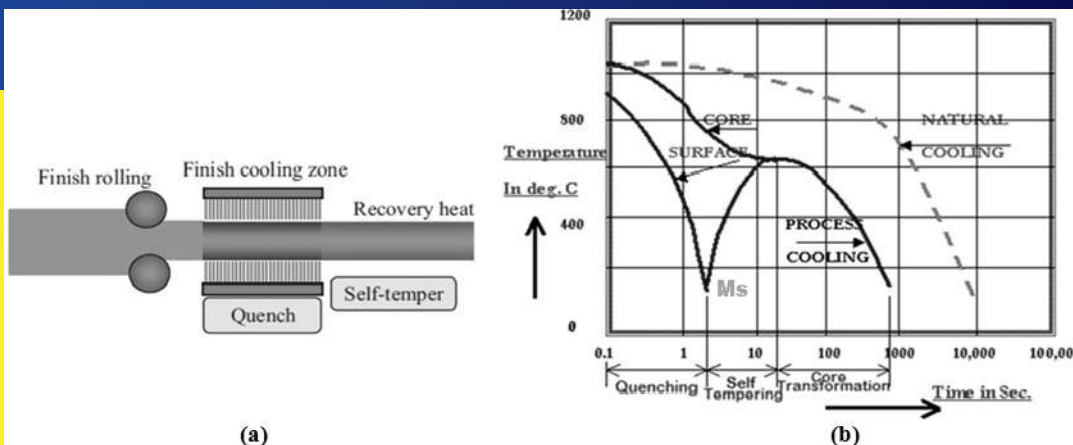
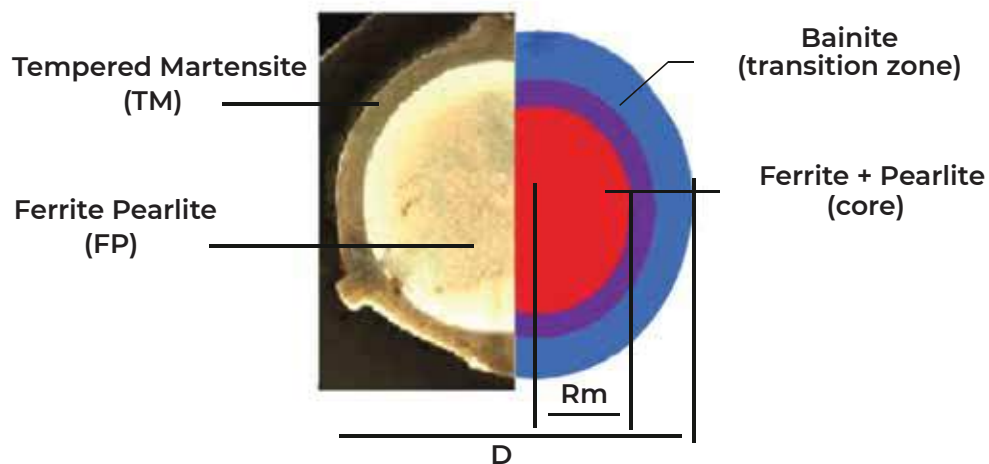
With the state-of-the-art technology the product Grades available as per IS Standards. **Quality TMT** bars are Thermo Mechanically Treated and formulated by Quenching, Tempering, and Cooling stages with Grades Fe500, Fe500D, Fe550, Fe550D & Fe600 with size range of 8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 28mm & 32mm. We also customize the length of materials as per project requirements.



ASSURANCE

An ISO 9001:2015 certified company, the passion to maintain & deliver the standard quality in **Quality TMT** bars by strengthening the unique supervision systems by skilled QC teams ensures that the product strictly meets specifications as per BIS Standards. As per the demand **Quality TMT** bars lead to endorse this certified process of online Quenching & Self Tempering for superior in quality and to be equivalent to the Primary Producers in India.

Macro Structure of QST Bar



Tmt Process Quenching And Tempering Of Tmt Bar

COMMITMENT

Quality TMT bars are committed to the value of every stakeholder and aim to meet their requirements while also improving the quality as per the BIS standards (IS 1786:2008). **Quality TMT** bars are also committed for creating an infinite pivotal role in the economy by creating jobs and fostering innovation. The possibilities are:

- ✓ Manufacturing value-added products to meet customers' expectations for being superior quality.
- ✓ Staff training & investment in employees to help them develop new skills for a rapidly changing world.
- ✓ We believe that Trust, Honesty and Passion are essential for success.
- ✓ We are committed to transparency and effective engagement.



- ✓ We foster diversity, dignity and respect for all, providing a SAFE & HEALTHY working environment and taking pride in exuding an aura of knowledgeable confidence.
- ✓ Dedicated to fair dealing with our suppliers / vendors to serve as good partners, large or small, that help us meet our goals.
- ✓ Setting higher levels of accomplishment to enhance the future needs of clients in a successful way.
- ✓ Developing business relationships intelligently and nurturing them deliberately for the purpose of building a successful & healthy environment.
- ✓ Committed to consistent working without pause, taking steps forward for a joint venture with our partners for continuous development & benefits.



Sectional Weight with Tolerance

Size (mm)	Sectional Weight		Tolerance in Weight	
	Kg/ Meter	Kg/Feet	ISI	Quality TMT
8	0.395	0.120	±7%	min 7% max 1%
10	0.617	0.188	±7%	min 7% max 4%
12	0.888	0.271	±5%	min 5% max 2%
16	1.580	0.481	±5%	min 5% max 1.9%
20	2.470	0.752	±3%	min 3% max 1.6%
25	3.850	1.174	±3%	min 3% max 0.5%
28	4.830	1.470	±3%	min 3% max 1%
32	6.310	1.925	±3%	min 3% max 1%

Mechanical & Chemical Composition

	Mechanical Properties			Chemical Properties			
	0.2% Proof Stress YS (N/mm²) Max.	Tensile Strength (N/mm²) Min.	Elongation %	C (%)	S (%)	P (%)	S & P (%)
Fe500	500.0	545.0	12.0	0.30	0.055	0.055	0.105
Fe500D	500.0	565.0	16.0	0.25	0.040	0.040	0.075
Fe550	550.0	585.0	10.0	0.30	0.055	0.050	0.100
Fe550D	550.0	585.0	16.0	0.25	0.040	0.040	0.075
Fe600	600.0	660.0	10.0	0.30	0.040	0.040	0.075

QUALITY BENEFITS

The high strength **Quality TMT** bars confirm it to be an ideal material to be used with concrete for making structures more robust. The unique ribbed pattern on the TMT bars also provide extra strength by bonding them more tightly with concrete. The ductility of the TMT bars make them easier to work with and pre-welded meshes can be made off-site reducing the overall construction time.



Superior Strength

Quality TMT bars are rolled out in modern Rolling Mill equipped with computerised controls. Every critical parameter is continuously monitored to deliver the best quality having higher stress strain ratio along with same yield strength. The high strength of the bars make them an ideal material to be used with concrete for making structures more robust. The ductility of the TMT bars make them easier to work with, and pre-welded meshes can be made off-site reducing the overall construction time.



Seismic Activity

Quality TMT bars have the ability to absorb large amount of energy and shock released during earthquakes thus avoiding catastrophe. It has high elongation and ductility and can thus be deformed to a much larger extent without breaking. A combination of very specific balance of chemical properties and stringent quenching develops the desired parameters.



Superior Bendability

Ductility determines the capacity of bending. **Quality TMT** bars are having a tough outer surface with a soft core thus increasing bendability, also making it suitable to adapt to architectural design as desired, allows for easy working.



Superior Weldability

Quality TMT bars do not require pre or post welding treatment as they have low carbon content and are produced under controlled Thermo Mechanical Treatment.



Superior Bonding

Quality TMT bars have been designed with uniform and precise rib pattern to ensure excellent bond strength between mortar, concrete & reinforcement steel.



Fire Resistance

Quality TMT bars have high thermal stability and can withstand higher temperatures ensuring safety. Due to its high thermal stability, TMT bars can withstand temperatures ranging from 400 to 600 degree Celsius; this ensures the building's structural integrity even during a fire.



Saving

Due to superior strength & elongation of **Quality TMT** bars, it requires lesser quantity than ordinary TMT bars. This indirectly helps for savings without affecting safety & quality. Apart from reducing the cost of raw material, it also saves cost on transportation and storage. **Quality TMT** bars are also easier to manage on-site, which leads to a further cost saving due to reduced construction and fabrication time.



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