

SARWOTTAM TMT

550 | 550D BARS

SABSE UTTAM SARWOTTAM



Sabse Uttam
Sarwottam



Strengthening Today. Shaping Tomorrow.

Sarwottam TMT stands as a symbol of ambition, innovation, and strength. What began as a single dream has grown into a legacy of excellence in steel manufacturing. For over four decades, we've delivered best-in-class TMT bars, where strength meets durability.

By embracing advanced technology and using only premium raw materials, we produce Fe-550D Primary Grade Steel—combining precision, quality, and performance. Our relentless pursuit of perfection and commitment to customer satisfaction have made Sarwottam a trusted name in the industry.

Choose Sarwottam. Choose strength, trust, and excellence.

A Four Step Process is Used to Manufacture **SARWOTTAM TMT**

- **Raw Material Manufacturing**

Our in-house raw material production and steel melting shop enable us to precisely control the chemical composition of our secondary products. This ensures superior flexibility, ductility, and elongation, while consistently maintaining tensile strength above market standards.

- **Automated Rolling**

Our internationally designed automatic rolling process ensures unmatched TMT bar quality, delivering superior uniformity, higher tensile strength, and industry-leading elongation.

- **German Technology CNC Rib Cutting**

After rolling, our TMT bars pass through German-tech ribbing rolls that ensure uniform ribs and precise angles for superior bonding with RMC and RCC.

- **High Accuracy PLC Controlled Quenching System**

The final and crucial step—quenching—is done using an automatic, high-precision PLC system that ensures uniformity and delivers top tensile strength without sacrificing hardness or adding brittleness.



Product Attributes



Maximum Strength with Better Elongation

Sarwottam TMT bars have high tensile strength and better elongation value.



Very Cost Effective

The average cost of reinforcement steel is 40% of the cost per cubic meter of concrete. Whereas, by using Sarwottam TMT the cost can be reduced by 15%.



Weldability

Our TMT bars can be pre-welded into meshes.



Better Bonding Strength

External ribs running across the entire length of TMT bar are scientifically proven to give superior bonding strength between the bar and the concrete.



Easy Working

Most preferred at site owing to their better ductility and bendability



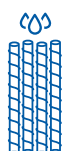
Resistance to Fire Hazards

Our TMT bars can withstand temperatures up to 500 degree centigrade.



Earthquake Resistant

The soft ferrite-pearlite core enables the bar to bear dynamic and seismic loading.



Corrosion Resistance

Sarwottam TMT manufacturing process gives the bars superior strength and good anti-corrosive properties, due to the tough surface and fine grain quality.

Products

TMT Bars

Thermo-Mechanical Treatment (TMT), is a metallurgical process that integrates work hardening and heat-treatment to give higher bendability, longevity, & ductability far exceeding the IS 1786/08 Standards.

FE 550/550D TMT Rebar

Sarwottam TMT Fe 550/550D has enhanced physical, chemical & mechanical properties achieved by highly controlled and advanced manufacturing process.

Mechanical Properties Of TMT Bar as Per IS:1786 - 2008

Grade	Other TMT Fe 550	Sarwottam TMT Fe 550/550D
Yield Stress (N/sq.mm)	>550	>580
Tensile Strength (N/sq.m)	1.06 but TS strength not less than 585.00 N/mm ²	1.08 but TS strength not less than 600.00 N/mm ²
Elongation %	>10%	>15%

Chemical Properties Of TMT Bar as Per IS:1786 - 2008

Grade	Other TMT Fe 550	Sarwottam TMT Fe 550/550D
Carbon %	0.30	0.25
Sulphur %	0.055	0.040
Phosphorus %	0.055	0.040
Sulphur & Phosphorus %	0.100	0.075
Manganese %	0.5 - 10	0.5 - 10
CE %	0.42	0.61

Weight of Sarwottam TMT Bars

Specific		BIS Range			Sarwottam TMT Range			
Size in MM	KG/mtr	Tolerance KG/mtr			Tolerance KG/mtr			%
		Min		Max	Min		Max	
8	0.395	0.367	to	0.423	0.370	to	0.407	±7
10	0.617	0.574	to	0.659	0.580	to	0.625	±7
12	0.888	0.844	to	0.932	0.845	to	0.920	±5
16	1.579	1.500	to	1.658	1.516	to	1.625	±3
20	2.467	2.400	to	2.541	2.408	to	2.510	±3
25	3.856	3.740	to	3.971	3.752	to	3.924	±3
32	6.313	6.214	to	6.502	6.200	to	6.480	±3

When you choose Sarwottam, you choose the best.
Sabse Uttam Sarwottam TMT !!

Process

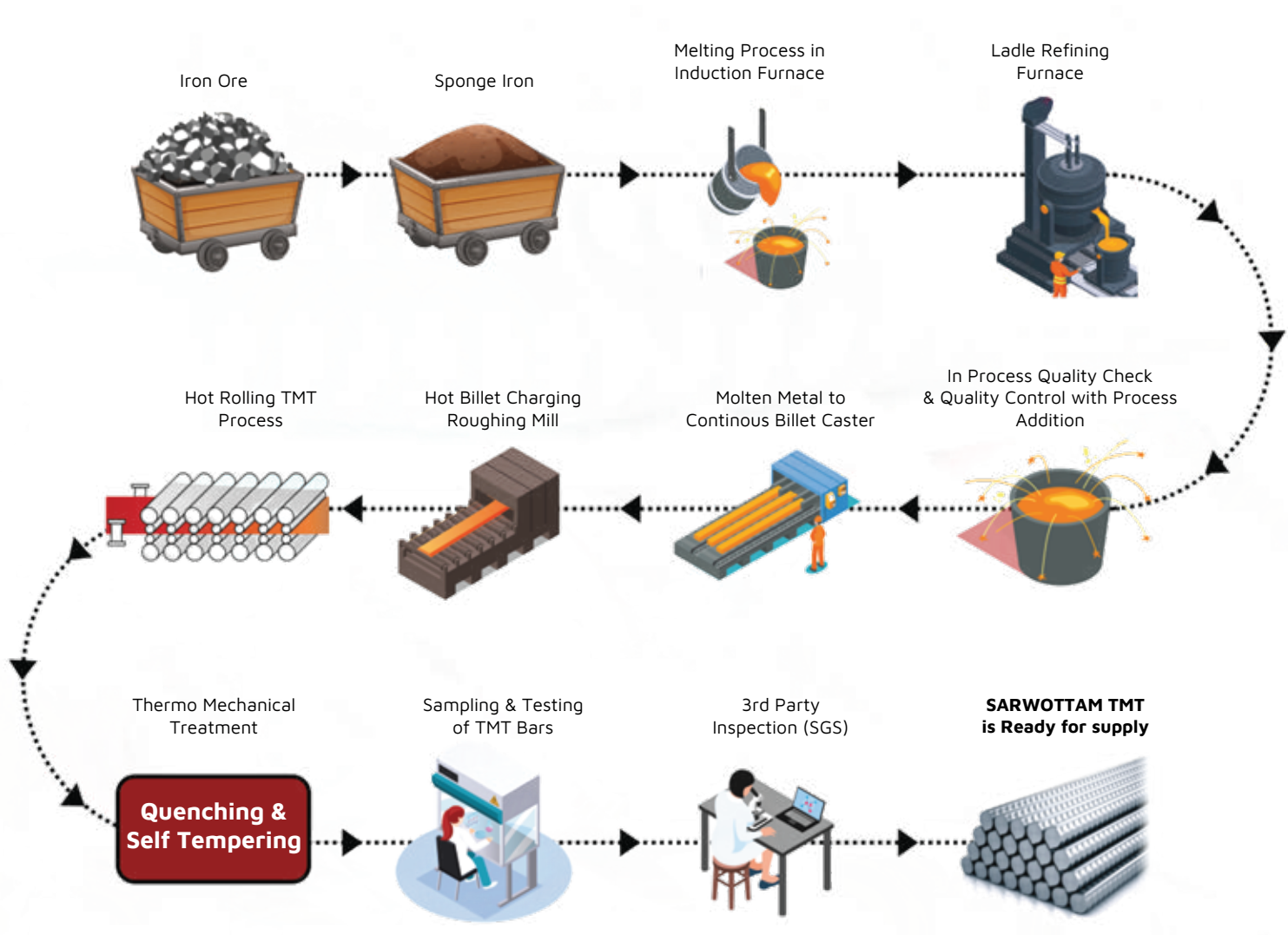
Technology

Sarwottam TMT Bars have their own unique characteristic features- tough and malleable. Their range of elongation ratio varies from 18% to 24%, which makes them highly ductile and easily weldable.

Primary Steel Producer

Sarwottam TMT is a reputed brand having 40 years of rich legacy and are a manufacturer of primary grade steel. Steel Producers of any capacity, irrespective of process route, starting their operations from iron making using iron ore, virgin or processed, with refining facilities to finished steel.

Manufacturing Process



As per BIS

Low alloy steel may also be produced by adding alloying elements like Cr, Cu, Ni, Mo, & P either individual or in combination, to improve allied product properties. However the total content of these elements shall not less than 0.40 percent.

Our Prestigious Clients



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