



SR TMX

TMT

Bharosa Majbooti ka
International Quality QST Bars



Manufacturer of

Fe500 | Fe500 D | Fe550 | Fe550 D | CRS
Using German Thermex Technology (TMX)

Sanjay Ferro Metal Private Limited, also known as SR TMX steel bars, is an ISO 9001:2015 certified manufacturing company established in 2021, part of the Sanjay Group of Industries involved in Iron & Steel products since 1976. The Group consists of a Foundry division manufacturing CI Castings, a Steel Division manufacturing MS Ingot, Trading Firm involved in all types of metal and alloys. Although SR TMX is a new brand in the TMT sector, the grassroots of the organization have been present for Decades.



SR TMX TMT Bars:

Thermomechanical Tested bars are the most preferred reinforced bars globally. SR TMX uses the licensed H&K India Thermex (QST) system, The leading Quenching and self-tempering (QST) process that allows us to produce high-strength deformed bars. We produce rebars specifically designed to suit the customer's needs and rebar properties.



Earthquake Resistance

SR TMX bars consist of perfect seismic resistance properties making them an ideal choice in construction projects in earthquake-prone zones. The SR TMX steel bars are designed to offer superior grip and bond with the concrete to form a solid steel-cement bond. Its superior physical and chemical properties can withstand the forces of an earthquake and limit damage to the building structure.

Exceptional Bendability

SR TMX bars are manufactured as per IS 1786 standards making them high-quality bars with exceptional Bending and Re-bending properties. Thermex quenching system makes it resistant to cracks and easy to bend due to its hardened outer surface and ductile core.



Anti-Corrosion

Using the leading state-of-the-art quenching process from Thermex H&K and superior chemical properties gives SR TMX an edge over the competition. SR TMX steel bars provide better physical protection against corrosion and increase the life of the structure.

Better Weldability

SR TMX bars offer better weldability than ordinary TMT due to their low carbon equivalent. Its excellent properties make it easier for Butt-welding or leap-welding to suit the need of the structure. It requires no additional heat treatment for manual arc welding.



Sizes 8mm, 10mm, 12mm, 16mm, 20mm, 25mm, & 32mm.

Grades Fe-500, Fe-500D, Fe-550, Fe-550D, CRS Fe-500, CRS Fe-500D

Chemical & Physical Mechanical

Properties AS per IS 1786:2008 of SR TMX BAR

MECHANICAL PROPERTIES

GRADE	Unit	Fe500		Fe500D		Fe550		Fe550D		CRS Fe500		CRS Fe500D	
		IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX
Yield Stress (min)	N/mm2	500	530	500	530	550	570	550	570	500	530	500	530
Ultimate Tensile Strength (min)	N/mm2	545	580	565	600	585	630	600	630	545	580	565	580
TS\YS Ratio (min)		1.08	1.15	1.1	1.15	1.06	1.1	1.08	1.12	1.08	1.12	1.1	1.12
Elongation (min)	%	12	16	16	18	10	16	14.5	16	12	16	16	18
Total Elongation (min)	%	....	....	5	6	...	...	5	6	....	....	5	6

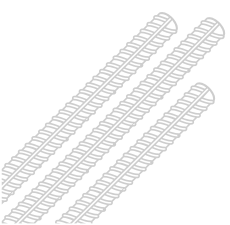
CHEMICAL PROPERTIES

GRADE	Unit	Fe500		Fe500D		Fe550		Fe550D		CRS Fe500		CRS Fe500D	
		IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX	IS 1786:2008	SR TMX
Carbon (Max)	%	0.30	0.25	0.25	0.23	0.30	0.25	0.25	0.23	0.15	0.15	0.15	0.15
Sulphur (Max)	%	0.055	0.050	0.040	0.040	0.055	0.050	0.040	0.040	0.055	0.05	0.04	0.04
Phosphorus (Max)	%	0.055	0.055	0.040	0.040	0.050	0.050	0.040	0.040	0.12	0.10	0.12	0.08
S+P (Max)	%	0.105	0.105	0.075	0.075	0.100	0.100	0.075	0.075	0.17	0.15	0.16	0.12
Copper	%	0.22- 0.45	...	0.10-0.20
Chromium	%	0.22- 0.45	..	0.35- 0.45
CE (Max)	%	0.42	0.42	0.50	0.42	0.50	0.42	0.61	0.42	0.53	0.42	0.53	0.42
ALLOY ELEMENT (Min)	%	0.4	0.5	0.4	0.5

Standard Size And Useful Data

MECHANICAL PROPERTIES

SIZE (MM)	ISI Standard Nominal Weight Kg./Mtr	SR TMX Nominal Weight Kg./Mtr.	Tolerance Limit as per ISI in Kg./ Mtr.	SR TMX Tolerance Limit in Kg./ Mtr.	No. of pieces per bundle 12 Mtr.	Weight per bundle in kgs. 12 Mtr.
8	0.395	0.370	0.367 - 0.423	0.370 - 0.385	15	69
10	0.617	0.580	0.574 - 0.660	0.575 - 0.590	10	71
12	0.888	0.852	0.844 - 0.932	0.845 - 0.860	7	73
16	1.580	1.580	1.500 - 1.659	1.510 - 1.530	4	74
20	2.470	2.410	2.395 - 2.544	2.400 - 2.425	2	58
25	3.850	3.760	3.735 - 3.966	3.745 - 3.735	1	45
32	6.310	6.210	6.121 - 6.499	6.190 - 6.300	1	76





Contact Us

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