

TMT Bars Fe-550/550D/CRS

GRADE-550

QUALITY AND ENGINEERING
YOU DESERVE



EXTRA GRIP SUPER SHAKTI



RD TMT Fe-550 

IS: 1786-2008



TEMPCORE[®]



ABOUT US

Started in **2013** RD TMT has been serving the industrialists and construction companies across India with excellent quality **MS Billets and TMT Bars. Established by Mr. Pradeep Kumar Agarwal, Mr. Sanjay Agarwal and Mr. Rajesh Agarwal**, the passion to move forward has made RD TMT as one of the most best and advanced construction steels in the country. We are one among the few companies who have invested in the most upgraded and advanced international technology with intensive in house R & D over the years. This has made us one of the most efficient producers of steel in India. Our superior design, quality manufacturing processes and engineering gives the ideal strength and flexibility required in today's construction industry.



PRODUCTS

» BILLETS

With International quality standards in place, RD TMT takes pride in bringing you superior quality Mild Steel Billets. We procure high quality sponge iron/DRI and with our continuous casting machinery our billets produced are free from any surface crack or lamination.

> TMT BAR

RD TMT 550 Bar is the steel for new-age constructions. The steel strength allows for the highest percentage elongation of bars giving it unmatched tensile strength and ductility when compared to the other products in the market. RD TMT 550 Bars meet the industry standards and specifications of low phosphorus and sulphur content giving the steel strength to withstand wind loads and jerk loads during earthquakes.





TECHNICAL SPECIFICATION

CHEMICAL COMPOSITION

CONSTITUENT	Fe-550 BIS STANDARD	RD TMT Fe-550
CARBON %	0.30 max	0.24 max
SULPHUR %	0.055 max	0.050 max
PHOSPHORUS (P) %	0.050 max	0.050 max
SULPHUR AND PHOSPHORUS (S&P) %	0.100 max	0.95 max
CARBON EQUIVALENT (CE) %	0.42 max	0.35 max
MANGANESE (MN) %	-	0.50 min
NITROGEN	0.012 max	0.010 max


MECHANICAL PROPERTIES

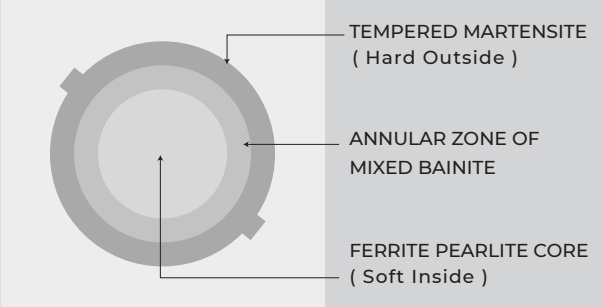
PROPERTIES	Fe-550 BIS STANDARD	RD TMT Fe-550
YIELD STRENGTH	550 MIN	570 MIN
TENSILE STRENGTH	585 MIN	600 MIN
TS / YS	1.06	1.10
ELONGATION	10	16
TOTAL ELONGATION	-	7

SIMPLE TEST


The Three Layers Of The TMT Bar Can Be Seen With Naked Eyes By A Simple Test. Slice A Piece Of Tmt Bar, Polish It's Face By Grinding, Immerse It In A Solution Of Nitral (Nitric Acid 2% + Alcohol 98%) For A Few Seconds. Allow It To Dry. Three Circles (As Shown In The Picture) Will Be Seen On The Cut Surface Of The TMT Bar. The Outer Circle Is Of Tempered Martensite (Hard), Center Circle Is Of Annular Zone Of Mixed Bainite And The Inner Circle Is Of Ferrite Pearlite (Soft).

PROPERLY QUENCHED





IMPROPER QUENCHING



MANDREL BAR BENDING



MANDREL DIA = 2d

DON'TS



MANDREL DIA = d

GENERAL



MANDREL DIA = 10d

DO'S



MANDREL DIA = 4d

GENERAL

APPROVED
RIB
PATTERN



Earthquake
Resistant
Technology

Superior
Physical Strength



High Bonding
Strength



Excellent
Weldability



High Dimension
Tolerance



Corrosion
Resistance



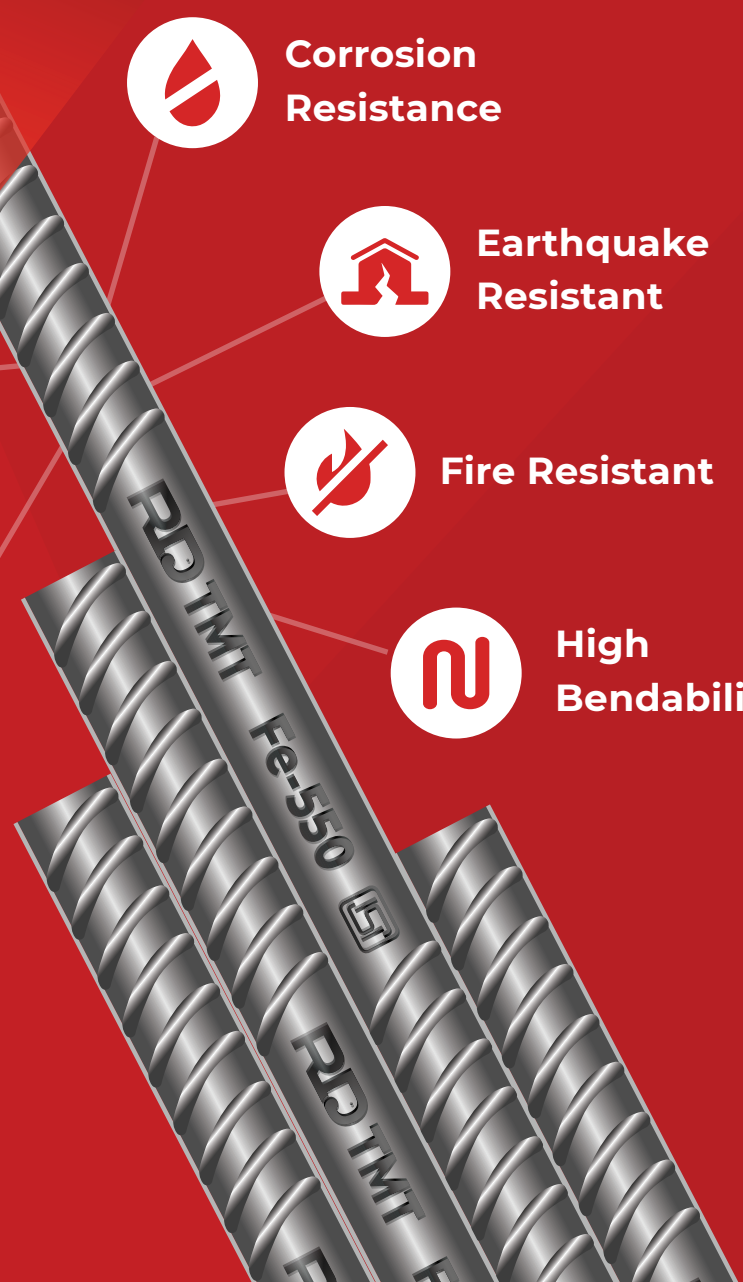
Earthquake
Resistant



Fire Resistant



High
Bendability



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RD TMT STEELS INDIA PVT. LTD.