



# JSW Neosteel

Pure TMT Bars

## FE 550D

Better **Strength**  
More **Savings**





# JSW Group

The US\$ 24 billion JSW Group is ranked among India's leading business houses. JSW's innovative and sustainable presence in various sectors including Steel, Energy, Infrastructure, Cement, Paints, Venture Capital and Sports is helping the Group play an important role in driving India's economic growth.

With a culturally diverse workforce spread across India, USA, Europe and Africa, JSW Group directly employs nearly 40,000 people.

JSW Group is known to create value for all its stakeholders by combining its growth roadmap, superior execution capabilities and a relentless drive to be #BetterEveryday.

## JSW Steel Ltd.

JSW Steel is the flagship business of the diversified US\$ 24 billion JSW Group. Over the last three decades, it has grown from a single manufacturing unit to become India's leading integrated steel company with capacity of 28 MTPA in India & USA (including capacities under joint control).

Its roadmap for the next phase of growth includes a target of achieving 37.5 MTPA steel capacity by FY25. The Company's manufacturing unit in Vijayanagar, Karnataka is the largest single location steel-producing facility in India with a capacity of 12 MTPA. JSW Steel has always been at the forefront of research and innovation offering high-value special steel products to its customers.

These products are extensively used across industries and applications including construction, infrastructure, automobile, electrical applications, appliances, etc. JSW Steel is the only Indian company to be ranked among the top 15 global steel producers by World Steel Dynamics for 13 consecutive years since 2008.





# The Ultimate Test

JSW Neosteel finds applications for general concrete reinforcements in

- Nuclear Power Plants
- Defense Projects
- Expressway & Coastal Bridges
- Road, Bridges, and Flyovers
- Airports & Ports
- Railways & Metros
- Residential Buildings
- Commercial Complexes
- Dams
- Industrial Structures
- Power Plants
- Metro Projects - Ahmedabad, Bangalore, Chennai, Delhi, Hyderabad, Jaipur, Kochi, Kolkata, Mumbai, Nagpur, Pune

## Mechanical Properties

Product Attributes	JSW Neosteel Fe 550D*	JSW Neosteel Fe 550D CRS*	JSW Neosteel Fe 600*	JSW Neosteel Fe 600 CRS*	JSW Neosteel Fe 650*	JSW Neosteel Fe 650 CRS*
YS (Min) Mpa	550	570	630	620	670	670
UTS (Min) Mpa	600	630	690	680	720	720
UTS/YS (Min)	1.08	1.1	1.06	1.08	1.08	1.08
% EL (Min)	14.5	16	10	11	11	11
% Total EL (Min)	5	7	-	-	-	-

## Chemical Properties

Elements	JSW Neosteel Fe 550D*	JSW Neosteel Fe 550D CRS*	JSW Neosteel Fe 600*	JSW Neosteel Fe 600 CRS*	JSW Neosteel Fe 650*	JSW Neosteel Fe 650 CRS*
%C (Max)	0.25	0.15	0.30	0.15	0.30	0.15
%S (Min) Mpa	0.04	0.04	0.04	0.04	0.03	0.040
%P (Max)	0.04	0.12	0.04	0.12	0.03	0.12
% (S+P) (Max)	0.07	-	0.075	-	0.065	-
% N (Max)	0.01	0.01	0.01	0.01	0.012	0.012
CE (Max)	0.61	0.55	-	0.55	-	0.55
Cr+Cu+Ni+Mo+P (Min)	-	0.50	-	0.50	-	0.50

# JSW Neosteel

## Fe 550D

Super-premium high strength and high ductility TMT re-bars typically used in the construction of all residential & commercial projects. Fe 550D bars are also used in projects like metro, bridges, highways etc. as well as specialized infrastructure projects like nuclear power plants. These are also used in earthquake-prone areas due to a high value of percentage elongation.

**Low density of Fe 550D  
grade TMT rebars**

**High density of Fe 500D  
grade TMT rebars**



**Fe 550D**

**Fe 500D**

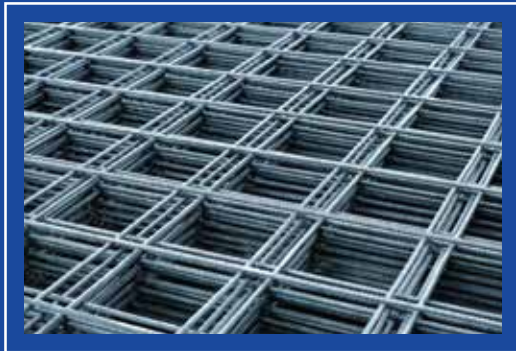
\*Actual steel savings will depend on the design, number of floors, seismic zone & other factors specific to the construction.





# JSW Neosteel Fe 550D Benefits

Here's how stronger steel will help you build a home with better strength and more savings



## Lower Steel Consumption

Homes designed by JSW Neosteel 550D consumes less steel, upto 15% \* of steel savings.



## Low Labour cost

Using less numbers of bars means using less labour which saves cost.



## Cost Saving

Consumption of TMT rebars is less in Fe 550D based on the same load bearing structure.



## Time Saving

Lesser time is needed for placing/tying of bars and less weight on cranes improves construction efficiency.

\*Actual steel savings will depend on the design, number of floors, seismic zone & other factors specific to the construction.



### **Strong Structure**

Fe 550D based designed structure is capable to bear more load than that based on Fe 500D.



### **Earthquake Resistance**

Higher Strength of Fe 550D TMT provides greater protection from earthquakes.



### **More Space**

The cross-sectional area of columns made of Fe 550 TMT rebar is less than that of Fe 500D for the same load bearing design. Hence, the structure based on Fe 550D gives more carpet area.

# 550D



## Corporate Head Office

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