



“ अपना नाम, अपनी पहचान ”



# ASHIANA®

## TMT

Fe 550 SD



MKT. BY

### KAMDHENU STEELS & ALLOYS LIMITED





# BUILDING STRENGTH. DELIVERING TRUST

ASHIANA® TMT Fe550SD is engineered to deliver superior strength, durability, and reliability for modern construction needs. Backed by the legacy and expertise of Kamdhenu Steels & Alloys Ltd., the brand represents uncompromised quality and trusted performance.

Designed for homes, commercial structures, and infrastructure projects, ASHIANA® TMT bars combine advanced metallurgy with precision manufacturing to ensure long-lasting structural integrity.



**SUPERIOR  
STRENGTH**



**CONSISTENT  
QUALITY**



**COROSSION  
RESISTANT**



**EARTHQUAKE  
RESISTANT**



**EXCELLENT  
WELDABILITY**



**SUPERIOR  
DUCTILITY**

“  
Every ASHIANA® TMT bar is a promise  
of strength & trust that builds a safer  
and stronger tomorrow.  
”





# ENGINEERED FOR MODERN CONSTRUCTION

## Fe550SD Grade Excellence

ASHIANA® TMT bars are manufactured using advanced thermo-mechanical treatment technology, ensuring the perfect balance of strength and flexibility.

### KEY BENEFITS



#### Improved Concrete Adhesion

Enhanced grip with concrete for stronger bonding.



#### Enhanced Structural Stability

Provides uniform stress distribution for safer structures.



#### Better Load Distribution

Transfers Load efficiently for superior performance.



#### Dimensional Accuracy

Exact size & weight for perfect fit and reliability.



#### Uniform Rib Structure

Consistent ribs for stronger bonding and better grip.



#### Long-Term Durability

Stronger bonds ensures durability over the entire life cycle.



#### Reliable Performance

Tested to meet the highest standards of strength & safety.



# TRUSTED ACROSS EVERY CONSTRUCTION SEGMENT

ASHIANA® TMT bars are engineered to deliver reliable performance across a wide range of construction applications.

## RESIDENTIAL

Strong & reliable reinforcement for homes, apartments and housing projects.



## COMMERICAL

Ideal for offices , malls, hotels, and high rise commercial structures.



## INFRASTRUCTURE

Suitable for bridges, flyovers, roads, metros, industrial projects and other public infrastructures.



## INDUSTRIAL

Build to perform under demanding conditions for factories, plants and industrial facilities.



**“ One Brand. Multiple Strength. Infinite Possibilities.”**

# TECHNICAL SPECIFICATIONS

## ASHIANA TMT FE 550SD: PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	IS1786:2008	IS1786:2008	IS13920:2016	ASHIANA TMT
	Fe550	Fe550D	Fe550	Fe550SD
Min. YS (MPa)	550	550	550	570*
Max. YS (MPa)	N.S.	N.S.	660	665*
Min. UTS (MPa)	6% Higher than YS but not less than 585MPa	8% Higher than YS but not less than 600MPa	N.S.	15% Higher than YS but not less than 630MPa
Min. UTS/YS Ratio	1.06	1.08	1.15	1.10
Max. UTS/YS Ratio	N.S.	N.S.	1.25	1.25
Min. Total Elongation(%)	10.0	14.5	14.5	16.0
Min. Total Elongation at Max Force(%)	N.S	5.0	N.S	5.0

\*95% Values are within this Limit

N.S - Not Specified

## ASHIANA TMT FE 550SD: CHEMICAL PROPERTIES

CHEMICAL COMPOSITION	IS1786:2008	ASHIANA TMT
%CARBON, MAX.	0.25	0.25
%SULPHUR, MAX.	0.04	0.035
%PHOSPHOROUS, MAX.	0.04	0.035
%(S+P), MAX.	0.075	0.070
%CARBON EQUIVALENT, MAX.	0.42	0.42

## ASHIANA TMT FE 550SD: BEND PROPERTIES

PARAMETER	IS1786:2008	ASHIANA TMT
Mandrel diameter upto & including 20 mm (max)	4 $\phi$	4 $\phi$
Mandrel diameter over 20 mm (max)	5 $\phi$	5 $\phi$

## PRODUCT RANGE

ASHIANA TMT FE 550SD Bars are available in the following sizes at the retail/distribution network across India:

**8, 10, 12, 16, 20, 25, 28, 32mm.**

# MANUFACTURING PROCESS

Ashiana TMT Bars are manufactured using advanced Thermo-Mechanical Treatment (TMT) technology, ensuring superior strength and durability. The process involves controlled cooling, which enhances ductility, corrosion resistance, and earthquake resilience.



## BUNDLING STANDARD

Size (MM)	Bundle Length (Mtr.)	Pcs Per Bundle	Per Mtr. Wt. Ashiana TMT	Per Mtr. Wt. As per ISI
8 MM	12	15	0.395 ± 5%	0.395 ± 7%
10 MM	12	10	0.617 ± 5%	0.617 ± 7%
12 MM	12	7	0.888 ± 3%	0.888 ± 5%
16 MM	12	4	1.580 ± 3%	1.580 ± 5%
20 MM	12	3	2.470 ± 2%	2.470 ± 3%
25 MM	12	1	3.850 ± 2%	3.850 ± 3%
28 MM	12	1	4.830 ± 2%	4.830 ± 3%
32 MM	12	1	6.310 ± 2%	6.310 ± 3%

Note - Bundling Standards may vary accoring to the location.





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SOCIAL MEDIA HANDLE - ASHIANA TMT

