



AMMAN-TRY
GROUP

BILLETS | TMT BARS | RINGS



TMT BARS
STRONG AND FLEXIBLE

Low Phosphorus Low Sulphur

A NEW TECHNOLOGY WITH HIGH PRECISION

CERTIFIED
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018



IS:14650



IS:1786



IS:1239



IS:4923



Characteristics Of 550 D

LPLS

(Low Phosphorus Low Sulphur):

According to the experts, Sulphur and Phosphorus are the two chemicals, that are considered the damaging of the construction which uses more steel consumption to ensure the long life of the buildings. The Sulphur and Phosphorus chemicals cause the bars to break easily and reduce the flexibility of the bars which makes the life of the building questionable over the years. To ensure strong protection with sustainability of long life for your buildings, AMMAN-TRY TMT bars are produced in 550D grade bars with LPLS technologies with high precision.

Quality is the Best Strategy of

AMMAN-TRY **TMT BARS SUCCESS**

PIONEER IN STEEL TECHNOLOGY

For 48 years, AMMAN-TRY Steel Group has been manufacturing TMT bar's in India by pioneering innovations, ensuring quality and excellence. AMMAN-TRY Group is the FIRST to introduce TMT, CRS, Rings, 500D, and 550D bars and has become successful over the years.

India's physical infrastructure growth has been growing rapidly and steel demand has also increased substantially. AMMAN-TRY Group has expanded with state-of-the-art technologies for TMT bar production. AMMAN-TRY Group has commissioned South India's biggest Fully Automated High Speed Rolling Mill with Japan's KOBE Block Mill Technology.

As the growth of infrastructure increased, we also adopted the latest technology which converts molten metal into billets and directly into production of TMT bars with enhanced quality and services that customers expect us to deliver.



GREEN STEEL – 5 STAR RATED ★ ★ ★ ★ ★

We are proud to announce that AMMAN-TRY has been awarded the National Green Steel Certificate with 5-Star Rating by the National Institute of Secondary Steel Technology (NISST), Union Ministry of Steel, Gol, New Delhi. This prestigious recognition highlights our strong commitment towards sustainable and environmentally responsible steel manufacturing.

Our TMT Bars are awarded 5 STAR Rating for sustainable manufacturing, low carbon emissions, energy efficiency, and eco-friendly production.

This achievement demonstrates our dedication to quality, innovation, and sustainable infrastructure development. With this recognition, AMMAN-TRY STEELS continues to support green buildings, eco-friendly construction, and a cleaner future.



5 Star Rated Green Steel Certified
South India's Leading TMT Bar Manufacturers

Low CO₂ Emission, High Quality

Low Carbon Foot Print
High Production Capacity

ISO 14001:2015 Environmental
Management Systems Certified Company

STEEL MELTING UNIT

We have two Induction Furnaces with capacity of 30 Tonne and 25 Tonne which is equipped with the required quantity of chemical elements such as Sponge Iron, Ferro Silicon, Silico Manganese and Aluminium are added and melted to produce billets.

HOT CHARGING METHOD

The uniform temperature in the billets gives consistent chemical properties for the production of TMT bars. We give highest attention to quality, checking at every stage, so that AMMAN-TRY TMT bars are produced with consistency in process, uniformity in quality, high strength, flexibility and ductility throughout the bars

HORIZONTAL - VERTICAL STAND

In our modernised new Rolling Mill, we have adopted both horizontal and vertical methods with advanced technology, wherein hot molten metal are converted into billets and then automatically rolled into production of TMT bars before its heat subsides.

TMT QUENCHING

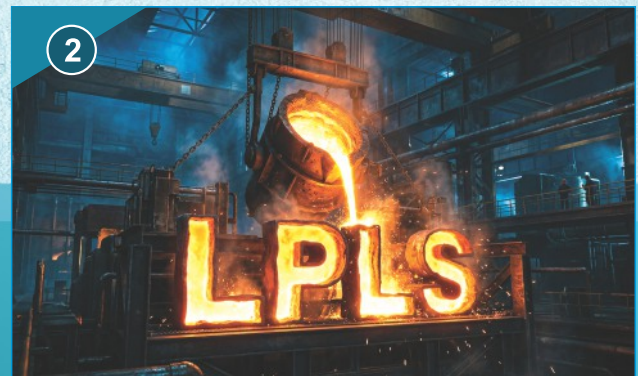
In Tempcore Technology, TMT bars are cooled down rapidly (Rapid Quenching) which results in the excellent formation of the microstructure of bars.

AUTOMATIC COOLING BED

In the automatic cooling bed, bars are kept in natural air circulation without rubbing against each other. This results in the strong formation of the microstructure which gives more strength and flexibility to the bars.

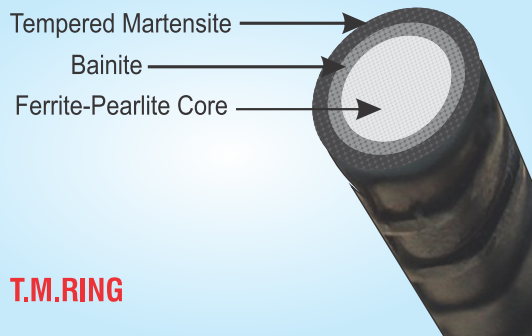


IRON ORE / SPONGE IRON



STEEL MELTING FURNACE

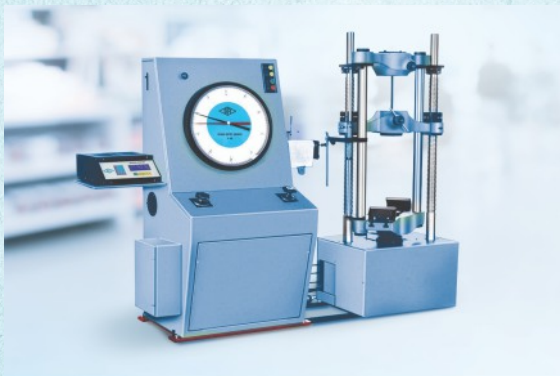
MICROSTRUCTURE (T.M.RING)



Metallurgical Microscopes are used to check the uniformity, and correct percentage of formation of the three Microstructure layers (Tempered Martensite Ring) to ensure that produced steels are as per scientific BIS norms and standards to which AMMAN-TRY Group gives the highest importance.

SPECTROMETER

Our advanced spectrometer will accurately and rapidly test all chemical elements of the billets.



1000 KN UTM

The strength of the bars are checked and confirmed using a 1000 KN UTM (Digital & Analog).

Unyielding Strength
TESTED TO PERFECTION



BILLETS



JAPAN'S KOBE BLOCK MILL

15-20% STEEL SAVING

If the strength and ductility of the TMT bars are of higher quality, there are methods to reduce the area of bars used in concrete for different types of building construction.

With the help of experienced civil engineers and architects, using 550D TMT bars would surely result in effective steel savings of upto 15-20% as compared to earlier Fe500 grade TMT bars.

SATISFACTION OF CUSTOMERS

While the needs of infrastructure sectors are dynamic, we also introduced these advanced technologies to satisfy our customers and to produce zero-defect products.

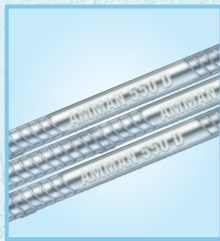
CUSTOMERS EXPECTATIONS

Uniform Strength, Flexibility
and Ductility in TMT bars

Smooth Appearance
of TMT bars

Reasonable
Price

Expectations Of Customers



FULLY AUTOMATIC HORIZONTAL / VERTICAL NO TWIST BLOCK MILL



NO TWIST - NO RISK

CHEMICAL PROPERTIES (%)

Properties	IS 1786:2008 Fe 550 D	AMMAN-TRY Fe-550 "D"	Some Other TMT Fe-550*
Carbon (C)	0.25 (Max)	0.23 (Max.)	0.30
Sulphur (S)	0.040 (Max)	0.035 (Max.)	0.055
Phosphorus (P)	0.040 (Max)	0.035 (Max.)	0.055
S+P	0.075 (Max.)	0.070 (Max.)	0.105
Carbon Equivalent (C.E)	0.61 (Max.)	0.45 (Max.)	—

*as per our market analysis.

MECHANICAL PROPERTIES

Properties	IS 1786:2008 Fe 550 D	AMMAN-TRY Fe-550 "D"	Some Other TMT Fe-550*
Yield Strength (N/mm ²) Y.S	550 (Min.)	550 - 590	500 - 680**
Tensile Strength (N/mm ²) T.S	600 (Min.)	660 - 700	545 - 750
Elongation (%)	14.5 (Min.)	18 (Min.)	12
Total Elongation (%)	5	7 (Min.)	N.A
T.S/Y.S Ratio (Min)	1.08	1.18	1.08
Bend Test (Mandrel size) (upto and including 20mm)	4D	3D	5D
Bend Test (Mandrel size) (over 20mm)	5D	4D	6D

*as per our market analysis. **abnormal result

Nominal Mass for One Bar (kg/40feet)

SECTION	Minimum	Normal	Maximum	No. of bars in bundle
6mm	2.513	2.708	2.904	20
8mm	4.477	4.819	5.161	10
10mm	7.003	7.527	8.052	7
12mm	10.285	10.834	11.370	5
16mm	18.300	19.264	20.228	3
20mm	29.195	30.097	31.000	2
25mm	45.616	47.031	48.446	1
32mm	74.700	77.000	79.300	1

Note: AMMAN-TRY Bars are 40 feet in length' (12.2 Meters in Length)

AMMAN-TRY / TMT BARS

APPROVED CENTRAL & STATE (GOVERNMENT, PRIVATE) DEPARTMENTS



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Social Media



AMMAN-TRY
GROUP

BILLETS | TMT BARS | RINGS

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Factory

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