



EVERY DROP

IS POWERFUL



AMMAN-TRY
TMT BARS



IS : 2830

IS : 1786



LEADERSHIP THROUGH EXCELLENCE IN QUALITY

Shri Amman Steel and Ailed Industries (P) Ltd., an ISO 9001 Certified Company one of the leading high class Manufacturer and a reliable supplier of quality steel bars with ISI Certification is widely recognized all over South India. The company has strived continuously for excellence in every field through the earnest efforts of a core team of technocrats and devoted workforce.



CONFORMITY TO NATIONAL AND INTERNATIONAL STANDARDS.

AMMAN-TRY / TMT bars confirm to most National and International Standards and codes of practice such as Indian Standards IS 1786 and IS 456 corresponding to international recommendations by CEB.



WORLD CLASS PRODUCT

Amman Steels takes the leadership by adopting the latest **Thermo Mechanically Treated Process Technology**



TMT PROCESS

TMT Process can be described in three successive stages.

- First Stage hot rolled bar is rapidly quenched by special systems.
- After First stage heat from core gets transferred to surface leading to formation of Tempered Martensite which is strong and tough.

- After Second stage there is atmospheric cooling where in the core transforms into soft and Ductile inner core called ferrite pearlite and strong outer layer called Tempered Martensite AMMAN-TRY TMT is a perfect blend of these strength and ductility.

CHEMICAL PROPERTIES

Properties	ISI Fe-500	AMMAN-TRY Fe-500
Carbon %	0.30 (Max)	0.17-0.25
Sulphur & Phosphorus each %	0.055 (Max)	0.035-0.045
Sulphur + Phosphorus Combined %	0.105 (Max)	0.080-0.090
Carbon Equivalent %	0.42 (Max)	0.40 (Max)

MECHANICAL PROPERTIES

Properties	ISI Fe-500	AMMAN-TRY Fe-500
Yield Strength (N/mm ²)	500 Min	520-550
Tensile Strength (N/mm ²)	545 Min	590-660
Elongation %	12.0 Min	17.0-25.0

SECTION WEIGHT

AMMAN - TRY				AMMAN TRY	
Section	Min Wt. (Kg / Mtr)	Normal Wt. (Kg / Mtr)	Max Wt. (Kg / Mtr)	Bar Weight (Kg /40 Feet) Min-Max	No. of Bars/ Bundle
06mm	0.206	0.222	0.238	2.512 - 2.707	20
08mm	0.367	0.395	0.423	4.645 - 4.877	10
10mm	0.574	0.617	0.660	7.084 - 7.525	7
12mm	0.843	0.888	0.932	10.412 - 10.980	5
16mm	1.500	1.579	1.658	18.288 - 19.270	3
20mm	2.393	2.467	2.541	29.175 - 30.000	2
25mm	3.739	3.855	3.971	45.720 - 47.000	1



DISCOVER THE ADVANTAGES

Corrosion Resistance: AMMAN-TRY TMT bars have better corrosion resistance than normal CTD bars. In TMT bars the fine layer due to oxidation it forms a protective layer there by preventing corrosion. Where as in CTD bars this outer layer of scale falls down during the twisting process.

Corrosion resistance can be further improved as per the requirements of the customer by altering the Material Chemistry.



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POWERED WITH

ADVANCED TECHNOLOGY



EARTHQUAKE RESISTANCE

To resist earth quakes, the structures need to be provided with balanced stiffness, strength and ductility between its Members connections and supports. TMT bars provide very high strengths with higher elongation values and better ductility compared to other steel bars.

HEAT RESISTANCE

In TMT bar test results have shown no loss of strength up to 500°C. In the temperature range 550 to 600°C, the yield strength decreases by 20 N/mm² only. Hence TMT bars can be used in places prone to fire hazards.

BENDABILITY

Flexibility and the superior reverse bending properties makes the bars. easily workable at site.

WELDABILITY

Can be butt welded or lap welded without preheating.
No loss of strength at welded joints. Requires less overlapping and thus gives savings in steel.

ECONOMICAL

Cuts the cost of construction by giving up to 20% savings in steel consumption.

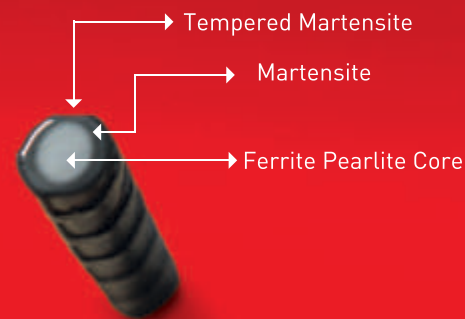
GUARANTEE

AMMAN STEEL gives you replacement guarantee if found defective in joint inspection and tests.

INSIST ON

ISI test certificates for each consignment.

MICRO STRUCTURE OF TMT BAR



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