

TMT 500W

SCRM

A TOUCH OF MODERN TECHNOLOGY



সালাম স্টীল কনকাস্ট রি-রোলিং মিলস লিঃ

বুটেন থেকে ফ্যাটিগ পরিক্ষীত ও ৫০ লক্ষ সাইক্লিক লোডিং-এ-ভূমিকম্প সহনীয় ষ্টীল

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Why SCRM 500W TMT Bar:

The strength of steel can be increased by the addition of various alloying elements, the key problem concerning this steel strengthening route is that it reduce the ductility of steel as well as the bend ability and / or strength formability. In this regards worldwide as well as local Industries have already started to produce high strength thermomechanically treated (TMT) steel bar of various catagories.

There are various options and parameters that might be controlled precisely to produce TMT steels.

SCRM 500W TMT bar is one of the best TMT bar in Bangladesh which can be precisely controlled all parameters by introducing highly modern technology.

How to TMT process Works:

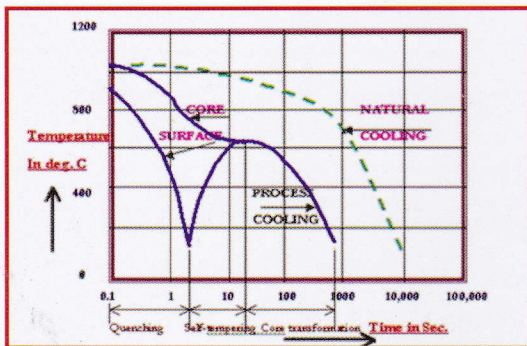


Figure: 8 Diagram Showing the standard heat treatment schedule of TMT steel bar production

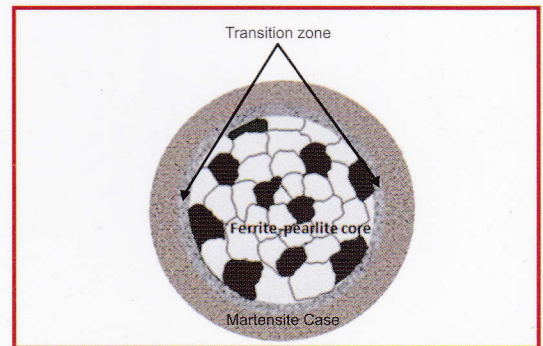
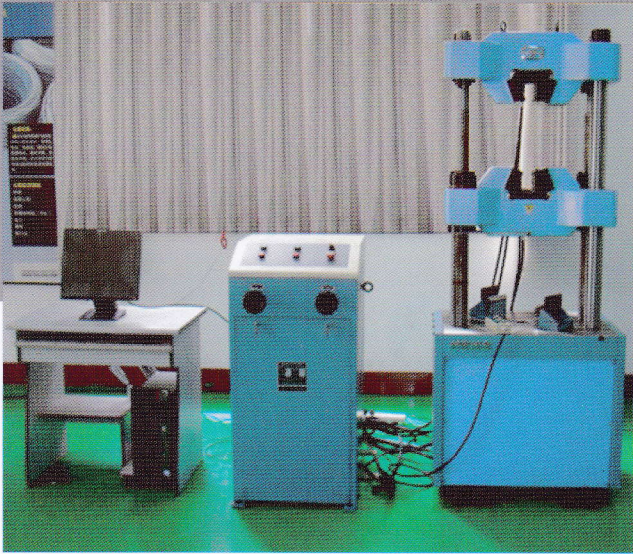


Figure: 3 Multi layered microstructures of TMT Steel Bars

Quality Assurance:

Our management is highly concerned about Quality Assurance for SCRM 500w TMT bar. For this purpose we introduced modern "Universal Testing Machine" 20 Channel spectroscope and Metallurgical Microscope which is directly supervised & monitored by A highly qualified Engineering team. Finally we are proudly announcing that our products not only confirm BUET and BSTI standards, but adhere to international standards as well; ISO, USA standards, UK standards etc.

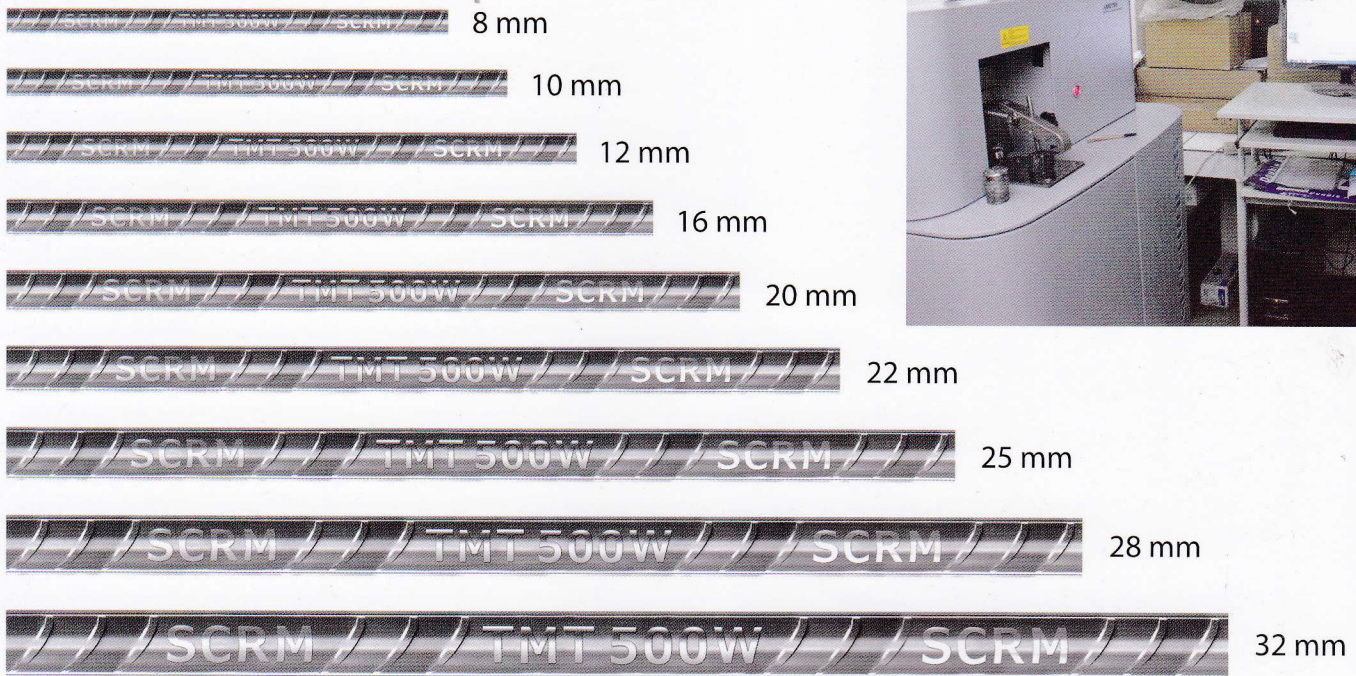


SCRM TMT 500W CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES COMPARING WITH OTHER INTERNATIONAL STANDARDS.

PARAMETER	ASTM A615 m GR-75 (520)	BS 4449 GR-460	IS:1786 GR:500	SCRM TMT 500W
Yield Strength (N/mm ²)	520	460	500	520
Tensile Strength (N/mm ²)	690	506	545	620
Elongation	6 (Depending on Bar Size)	12	14	14
Bend Test			3D to 7D	4D to 5D
Re-Bend Test		4D to 7D	5D to 10D	5D to 5D
% C Max		0.25	0.25	0.25
% Mn Max				0.80
% S Max		0.05	0.06	0.04
% P Max	0.06	0.05	0.06	0.04
% CE Max				0.40

GRADE : 500, 400, 300
OR, 72.5G, 60G, 40G

PROUCT RANGE:



DIMENSIONS, MASS PER UNIT LENGTH & PERMISSIBLE DEVIATIONS AS PER
BDS ISO 6935-2: 2009 STANDARD

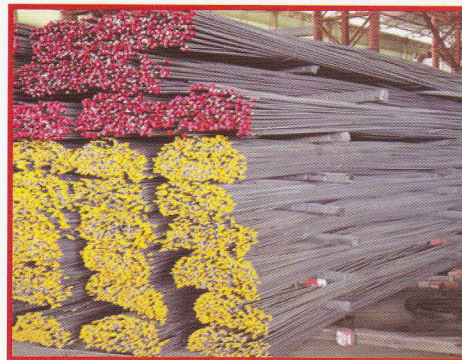
DIAMETER mm	AREA mm ²	Kg/meter	Meter/Ton	Ft/Ton	Ft/Kg	Kg/Ft	DEVIATION %
8	50.27	0.395	2534.3	8313	8.3	0.120	± 8
10	78.54	0.617	1622.0	5320	5.3	0.188	± 6
12	113.10	0.888	1126.4	3694	3.7	0.271	± 6
16	201.06	1.587	633.6	2078	2.1	0.481	± 5
20	314.16	2.466	405.5	1330	1.33	0.752	± 5
22	380.13	2.984	335.1	1099	1.10	0.910	± 4
25	490.87	3.853	259.5	851.2	0.85	1.175	± 4
28	615.5	4.834	206.9	678.6	0.68	1.174	± 4
32	804.25	6.313	158.4	519.5	0.52	1.925	± 4

STANDARD LENGTH 12 meter / 39.5 Ft

SCRM 500W TMT BAR PRODUCTION PROCESS:



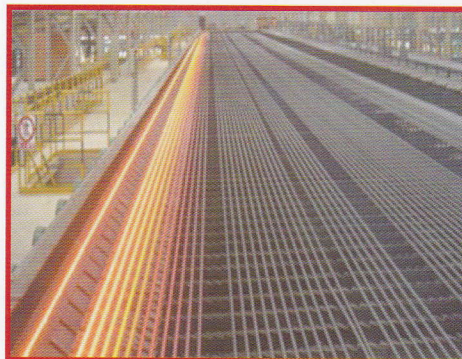
Steel Melting



TMT Bar stacking



Quality Control in Spectro Lab



Automatic Cooling Bed



Billet Casting



TMT Process



Hot Billet



Rolling Mill

TMT 500W



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