

WHY PREFER ICON STEEL IN YOUR CONSTRUCTION



Bendability:

The unique structure of bars makes bending of bars easier and boosts the pace of work at the construction sites.



Uniform Rib Pattern:

Uniform parallel rib pattern for ultimate bonding with cement which satisfied all International standards.



Corrosion Resistance:

Controlled water-cooling prevents the formation of coarse carbides: the main cause for steel bar corrosion. Precision machining of rib pattern also eliminates torsional residual stress. Together, this creates superior corrosion resistant capabilities and enhances the life cycle of the bars.



Weldability:

Icon steel bars have a carbon content of less than 0.25%. As a result, no pre-heating is required and wastage due to welding can be reduced considerably.



Earthquake Resistance:

Tests have conclusively revealed equivalent energy dissipation during repeated stress cycles. Due to high elongation and strength this property facilitates minimum damage to the structure and can minimize casualties caused due to earthquakes.



Fire Resistance:

The high thermal stability of Icon steel bars and the presence of tempered Martensitic-ring on the outer surface imparts higher capacity to retain strength at elevated temperatures of 400 -600°C.



ICON STEEL
TMT BARS

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ICON STEEL

TMT BARS

Strongly bears
the new standard

www.iconsteels.com

ICON

- INTEGRATED MANUFACTURING
- PROMPT CUSTOMER ASSISTANCE
- EXCEPTIONALLY DURABLE TMT BAR
- TRUSTED PROTECTION
- ADVANCED QUALITY MANGMENT

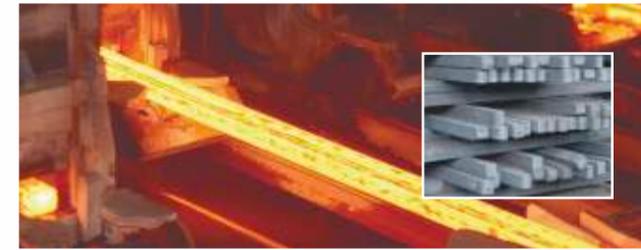
Welcome to India's most trusted TMT Bars

Icon Steel is the undisputed pioneer manufacturer of innovative and durable TMT bars. It set up one of the largest steel bar manufacturing ventures in Maharashtra with an extensive distribution network.

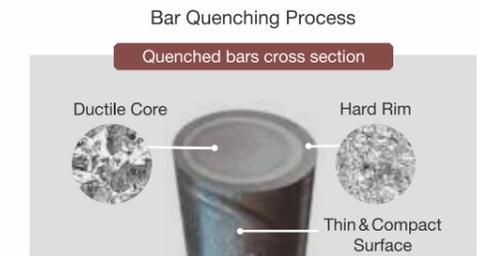
For a country like India that's undergoing a multiple-levels transformation, Icon Steel aims to be at the forefront of this change. And harness innovations, initiatives and strong products that can better the lives of Indians in many possible ways.

Icon Steels is the only manufacturer of corrosion resistance steel using 'Quenching and Tempering (TMT) Technology' by the world renowned 'THERMEX', HSE, Germany. The company substantial investments in upgrading and implementing automated manufacturing processes.

The R&D department of Icon is headed by competent scientists and engineers and equipped with sophisticated diagnostic research equipment. R&D centre dedicated to providing customers with prompt, innovative and cost-effective solutions



ICON 500 steel bars are produced through a bar quenching process where the properties are attained by regulating the micro structure of the steel giving better bars ductility and good weldability.



Chemical Properties

Element (%max)	IS 1786:2008		ICON 500
	Grade Fe 415	Grade Fe 500	
Carbon	0.30	0.30	0.16-0.25
Sulphur	0.060	0.055	0.05
Phosphorus (P)	0.060	0.055	0.05
S & P	0.11	0.105	0.1
Manganese			0.6

Mechanical Properties

Properties	IS 1786:2008		ICON 500
	Grade Fe 415	Grade Fe 500	
Yield Strength/ 0.2% Proof Strength (Min., N/mm ²)	415	500	520-565
UTS, Ultimate Tensile Strength (Min., N/mm ²)	485	545	630-730
% Elongation	14.5	12	16-25
UTS/YS Ratio	1.10	1.08	1.15-1.25

ICON 500 Bars sizes and weight tolerance chart

Size of Bar (mm)	Cross-Sectional area (mm ²)	Weight per Meter (Kg/m)			ICON 500
		I.S. Lower Limit	I.S. Standard Limit	I.S. Upper Limit	
8	50.3	0.367	0.395	0.423	0.380-0.405
10	78.6	0.574	0.617	0.660	0.580-0.620
12	113.1	0.844	0.888	0.932	0.850-0.900
16	201.2	1.501	1.580	1.659	1.520-1.600
20	314.3	2.396	2.470	2.544	2.421-2.519
25	491.1	3.735	3.850	3.966	3.773-3.927
28	616.0	4.685	4.830	4.975	4.782-4.878
32	804.6	6.121	6.310	6.499	6.247-6.373