



JINDAL

TMT 500

मजबूत निर्माण की नई पहचान...



The high safety features offered by 500 HD TMT bars make them well suited for zones having high seismic activity. Ductility is the ability of the material, to plastically deform and adapt while being stressed with a tensile load. When a piece of ductile material is pulled, before rupture (breaking apart), it will deform, change its shape to adapt to the stress.

TEST	UNIT	BIS:1786 2008	
GRADE		FE 500	JINDAL TMT 500
CARBON	%	0.30 Max	0.25 Max
SULPHAR	%	0.55 Max	0.40 Max
PHOSPHORUS	%	0.055 Max	0.40 Max
S+P	%	0.105 Max	0.75 Max
CARBON EQUIVALENT	%	0.42 Max	0.42 Max

MECHANICAL PROPERTIES	IS:1786-2008		U.K. B.S. 4449/2005		JINDAL TMT 500 HD
YS MIN. MPa	FE - 500	FE - 500D	500 - B	500 - C	Fe - 500 HD
	500	500	500	500	500
UTS MIN.	545	565	540	565	575
UTS/YS MIN.	1.09	1.13	1.08	1.15	1.15
% TOTAL ELONGATION	12.0 MIN.	16.0 MIN	N.S.	N.S.	18.0 MIN.
%ELONGATION UPTO UTS	N.S.	5.0 MIN	5.0 MIN.	7.5 MIN.	8 MIN.
APPLICATION	GENERAL	GENERAL	GENERAL	E.Q. ZONE	GENERAL+E.Q. ZONE

KEY FEATURES

EASY BENDABILITY

JINDAL TMT 500 HD can be bending into customized shape in spite of having very high strength due to its inherent micro structure with soft ferrite and pearlier core

EASY WELDABILITY

JINDAL TMT 500 HD has excellent weldability due to lower carbon equivalent. It can be easily butt-welded, lap-welded and manual arc welding can also be done quite simply without any pre-heating.

BOND STRENGTH WITH CONCRETE

JINDAL TMT 500 HD is excellent in cyclic loading situation due to uniform & critically designed rib pattern. Rib gives the more solid bonding with concrete. easy weldability

HIGHER STRENGTH

Jindal TMT 500HD is toughened high stress and made by High Yield Quenched & self tempered process, Which ensuring grade of 500.

HIGH DUCTILE

JINDAL TMT 500 HD has new Power of High Ductility. Jindal bars are crafted under strictly reglated manufacturing process which makes them easily bendable. There is an important connection between concrete and steel. Concrete has great compressive power but relatively low tensile strength and ductility, therefore when it fuses with TMT steel bars; it gives rise to a highly ductile and tensile combination.

EARTHQUAKE RESISTANCE

JINDAL TMT 500 HD is specially designed for seismic zones and has more resistance to earthquake & shock due to combination of higher strength & ductility. Its high UTS/YS ration of 1.15 minimum ensure higher energy absorption capacity

CORROSION RESISTANCE

JINDAL TMT 500 HD has higher corrosion resistance as compared to ordinary rebars due to its unique & uniform micro structure and absence of residual stresses.





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