JINFRAALLOY



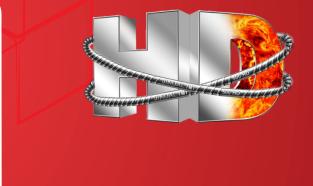
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मजबूत निर्माण की नई पहचान...

/// 500 HD ////// JINDAL TMT///// 500 HD ///// JINDAL TMT///// 500 HD ///// JINDAL TMT///



JINDAL TMT 500HD is specially designed for Earthquake Prone Zone in India. The Indian subcontinent has a history of devastating earthquakes. The major reason for the high frequency and intensity of the earthquake is that the Indian plate is driving into Asia at a rate of approximately 47mm/year.



JINDAL TMT 500HD, HD means HIGH DUCTILITY which gives you High Ductility in TMT which having observes efficiency of earthquake shock and ensuring best resistance against seismic waves. This feature provides the Fe500D TMT bars with the capacity to absorb sudden loads, which make them ideal for various natural disasters like earthquakes, tsunamis and cyclones.

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), is 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 |





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 buttwelded, 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.







JINDAL INFRAALLOY PVT. LTD.

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