

ISO 9001

BUREAU VERITAS
Certification



TMT B500 BARS

SIZES: 6 mm - 40 mm



18th Floor (B Wing),
Golden Jubilee Towers,
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LODHIA INDUSTRIES LIMITED

HIGH TENSILE DEFORMED BARS GRADE B500

The Lodhia Promise:

Lodhia Industries builds excellence on quality. Our TMT B500 bars are precision-crafted and tested to top international standards, delivering superior strength, flexibility, and corrosion resistance trusted by East Africa's engineers and builders. **The Steel of Choice for Generations.**

ABOUT THE PRODUCT

Grade B500 Deformed bars that conforms with TZS 142-2:2020, ISO 6935-2:2007, BS 4449:2005. Every meter of Lodhia Industries deformed bars is marked as "B500 // LODHIA // SIZE".

SPECIFICATIONS

TZS 142-2:2020

Nominal Diameter (D)	Nominal Cross Section Area	Mass per Unit Length (Kg/Mtr)	
(mm)	(mm ²)	Requirement	Permissible Deviation
6	28.3	0.222	+/-6%
8	50.3	0.395	+/-6%
10	78.5	0.617	+/-5%
12	113	0.888	+/-5%
16	201	1.58	+/-5%
20	314	2.47	+/-5%
25	491	3.85	+/-4%
32	804	6.31	+/-4%
40	1257	9.86	+/-4%

*Standard tolerances apply

Length: The nominal length of Steel Bars is 12 Meters. However manufacturer & purchaser may agree on special ordered length upon notification to the regulator.

KEY FEATURES:



High Strength & Ductility



Corrosion Resistance



Earthquake Resistance



Superior Bonding with Concrete



Better Weldability

CHEMICAL COMPOSITION FOR GRADE B500

Element	%
Carbon	≤ 0.22
Manganese	≤1.60
Sulphur	≤ 0.05
Phosphorus	≤ 0.05
Silicon	≤ 0.60

MECHANICAL AND PHYSICAL PROPERTIES FOR GRADE B500

Properties	Requirement
Yield Strength (N/mm ²)	Min. 500
Ductility Ratio	> 1.08
Elongation %	Min. 14
Bend/Rebend	No cracks/ No Rupture

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