

# Fe 550 – Technical Datasheet

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## 1. Chemical & Mechanical Properties

Element	% Composition
C (%)	0.30
S (%)	0.055
P (%)	0.050
S+P (%)	0.100
Yield (MPa)	550
Tensile (MPa)	600
Elongation (%)	10

## 2. Equivalent / Alternative Grades

Grade	Standard	Yield (MPa)	Tensile (MPa)	Carbon Max (%)
ASTM A615 Grade 80	ASTM A615	550	700	0.30
GB/T HRB500	GB/T 1499.2	500	630	0.25
ISO 6935 B500C	ISO 6935-2	500	625	0.24

## 3. Common Applications

- High-rise buildings
- Bridges & flyovers
- Seismic zones (D/S variants)

## 4. Standard Conformance

IS 1786:2008 (incl. latest amendments)

## 5. Disclaimer

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