

MATERIAL DATA SHEET · STRUCTURAL PLATE, BARS & SHAPES

ASTM A36

Chemical composition and mechanical properties

ASTM A36 is an ASTM specification for structural plate, bars & shapes (UNS K02600). This sheet summarises its chemical composition limits and minimum mechanical properties. Typical use: structural supports, base plates, non-pressure parts.

Chemical composition (weight %)

C	Mn	P max	S max	Si	Cr	Ni	Mo
0.25 max (plate ≤20 mm) to 0.29 max (>100 mm)	0.80–1.20 (plate >20 mm; not specified ≤20 mm)	0.030	0.030	0.40 max (0.15–0.40 above 40 mm)	—	—	—

Other elements and limits: Cu 0.20 min when copper steel is specified

Mechanical properties

Tensile strength, min	400 MPa
Yield strength, min	250 MPa
Elongation, min	23 %
Hardness	Not specified

Heat treatment

As-rolled

Typical service

Structural supports, base plates, non-pressure parts

Supplied by Teshi Group in this grade

Steel Plates (Stockist & supplier); Structural Steel (Stockist & supplier)

Composition limits are maxima unless a range is shown. Properties are specification minima for the standard product form and may vary with section size and edition of the specification.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions and properties before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions.

Teshi Group

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+91 78900 09110

sales@teshigroup.com
www.teshigroup.com