ASTM A36

Structural steel

EQUIVALENT GRADES

India (IS)	IS 2062 E250 (nearest)
USA (ASTM / AISI / SAE)	ASTM A36 / ASME SA36
UNS	K02600
Europe (EN)	S275JR / S235JR (nearest)
Japan (JIS)	SS400 (nearest)
China (GB)	Q235B (nearest)

CHEMICAL COMPOSITION (WEIGHT %)

C	Si	P	S
max 0.25	**max 0.40**	**max 0.04**	**max 0.05**

PROPERTIES

Mechanical (typical)	Tensile 400–550 MPa | Yield min 250 MPa | Elongation min 20% (200 mm) / 23% (50 mm)
Density	7.85 g/cm3 (7,850 kg/m3)
Typical uses	Mostly used for general structures, base plates, brackets and fabrication
Notes	C limit rises to 0.26–0.29 above 40 mm, with Mn 0.80–1.20 or 0.85–1.20 and Si 0.15–0.40. Cu min 0.20 only when copper steel is ordered. Made in India by AM/NS, Jindal Steel and others.

SUPPLY

Enquiry	Send grade, product form, size, quantity and delivery location for a quotation. Mill test certificates as per order.
Online	Equivalents, full chemistry by standard and weight calculator: https://steelimp.com/astm-a36-equivalent-grades

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Enquiry: steelimp.com/quote.php

Reference values compiled from published standards. Confirm against the governing standard, product form and the mill test certificate. Generated 13 Nov 2026.

STEEL IMPEX INDIA

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REFERENCE-USE NOTICE

The toolkit may contain errors. Manually verify dimensions, calculations and specifications against the applicable standard and supplier documentation before purchase, fabrication or use.

Read this notice with the source, material, condition and scope notes accompanying the preceding grade datasheet.

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