

S235JR

Structural Carbon Steel

W.-Nr. 1.0038

AISI/SAE ≈ A36

EN 10025-2

Delivery +AR, +N

Density 7.85 g/cm³

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	≤ 0.17
Si	—
Mn	≤ 1.40
P	≤ 0.035
S	≤ 0.035
N	≤ 0.012
Cu	≤ 0.55

MECHANICAL PROPERTIES (+AR / +N)

SECTION (MM)	R _{EH} MIN MPA	R _M MPA	A MIN %
d ≤ 16	235	360–510	26
16 < d ≤ 40	225	360–510	25
40 < d ≤ 100	215	360–510	24
100 < d ≤ 250	195	350–500	22

INTERNATIONAL EQUIVALENTS

EN	S235JR	JIS	≈ SS400 / SM400A
W.-Nr. (DIN)	1.0038	GOST	≈ Ct3cn (St3sp)
Eski DIN / Old DIN	St 37-2	BS (UK)	≈ 40B / S275 range
ASTM	≈ A36 / A283 Gr.D	GB (China)	≈ Q235B

TYPICAL APPLICATIONS

- Steel construction and load-bearing structures
- Pipe supports and brackets
- Welded frames, chassis and platforms
- Agricultural and construction equipment fabrication
- General machine bodies and connecting parts
- General-purpose non-machined parts

Values are given per the relevant standard and are for information only; they do not replace the order specification. They may vary with section size, delivery condition and heat treatment. Binding values are those of the order confirmation and inspection document (EN 10204 3.1).

Quotation and stock

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