

S355J2

High-Strength Low-Alloy Structural Steel (HSLA)

W.-Nr. 1.0577

AISI/SAE ≈ A572 Gr.50

EN 10025-2

Delivery +AR, +N, +M

Density 7.85 g/cm³

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	≤ 0.20
Si	≤ 0.55
Mn	≤ 1.60
P	≤ 0.025
S	≤ 0.025
Cu	≤ 0.55
CEV	≤ 0.45

MECHANICAL PROPERTIES (+N)

SECTION (MM)	R _{EH} MIN MPA	R _M MPA	A MIN %
d ≤ 16	355	470-630	22
16 < d ≤ 40	345	470-630	22
40 < d ≤ 63	335	470-630	21
63 < d ≤ 100	325	470-630	20
100 < d ≤ 150	295	450-600	18

INTERNATIONAL EQUIVALENTS

EN	S355J2	JIS	≈ SM490B / SM490YB
W.-Nr. (DIN)	1.0577	GOST	≈ 09Г2С (09Г2S)
Eski DIN / Old DIN	St 52-3 N	BS (UK)	≈ 50B (S355)
ASTM	≈ A572 Gr.50 / A709 Gr.50	GB (China)	≈ Q355B

TYPICAL APPLICATIONS

- Heavy steel construction and bridges
- Crane and lifting equipment structures
- Offshore platforms
- Machinery chassis and booms
- Structural parts under pressure
- Mining and energy plant steelwork

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

info@aktifcelik.com · +90 216 606 24 60

aktifcelik.com/en/celik-kalitesi/s355j2