

S355J2G3 EN 10250-2 (Euronorm)

Chemical composition

C	< 0.22	Si	< 0.55	Mn	< 1.6	P	< 0.035
S	< 0.035	Cr	< 0.3	Mo	< 0.08	Ni	< 0.3
Al	> 0.02	Fe	Rest				

For grain refining can contain Al, Ti, V, Nb singly or in combination.
Cr + Mo + Ni < 0.48%

Properties

By EN 10250-2

Normalizing temperature 890 - 950 °C

Normalized and normalized and tempered condition

Longitudinal test pieces

Thickness: < 100 mm ;

Yield Strength: > 315 MPa

Tensile Strength: > 490 MPa

Elongation: > 20 %

Impact energy KV -20°C: > 35 J

Thickness: 100 - 250 mm ;

Yield Strength: > 275 MPa

Tensile Strength: > 450 MPa

Elongation: > 18 %

Impact energy KV -20°C: > 30 J

Thickness: 250 - 500 mm ;

Yield Strength: > 265 MPa

Tensile Strength: > 450 MPa

Elongation: > 18 %

Impact energy KV -20°C: > 27 J

Transverse test pieces

Thickness: < 100 mm ;

Yield Strength: > 315 MPa

Tensile Strength: > 490 MPa

Thickness: 100 - 250 mm ;

Yield Strength: > 275 MPa

Tensile Strength: > 450 MPa

Elongation: > 12 %

Impact energy KV -20°C: > 20 J

Thickness: 250 - 500 mm ;

S355J2G3 EN 10250-2 (Euronorm)

Yield Strength: > 265 MPa

Tensile Strength: > 450 MPa

Elongation: > 12 %

Impact energy KV -20°C: > 15 J