HIGH STRENGTH STEEL Advanced Materials. Engineered for Performance.

S690QL

High Strength Steel | EN: S690QL / 1.8928

Quenched and tempered structural steel with 690 MPa minimum yield. Allows dramatic weight reduction in load bearing structures against conventional S355.



Stock status: Ex-stock Dubai - Typical lead time: 2 - 3 working days ex Dubai

Key features

- Halves structural weight against S355
- Guaranteed -40 C impact toughness
- Good cold formability for the strength class

Available forms & sizes

Form	Size range
Plates	4 - 150 mm thk, up to 3500 mm wide

Chemical composition (%)

Element	Min	Max
C	-	0.20
Mn	-	1.70
Cr	-	1.50
Ni	-	2.00

Mechanical properties

Property	Value	Unit
Yield Strength	690 min	MPa
Tensile Strength	770 - 940	MPa
Elongation	14 min	%
Impact Energy at -40 C	30	J

Physical properties

Property	Value	Unit
Density	7.85	g/cm3

Standards

EN 10025-6

Equivalent grades

1.8928, Weldox 700, Strenx 700, A514

Industries served

Lifting & Cranes, Transport, Construction, Offshore

Typical applications

- Mobile crane booms
- Heavy trailer chassis
- Lifting equipment
- Offshore structural members

Live datasheet