

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.

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

Typical Applications

- Mobile crane booms
- Heavy trailer chassis



AXICOR DWC LLC

Technical Data Sheet

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- Lifting equipment
 - Offshore structural members

Industries Served

Lifting & Cranes, Transport, Construction, Offshore