



## S690 QL



S690 QL is a high return structural steel evaluation created in consistence with EN 10025:6:2004. The material is high temperature treated utilizing the extinguish and temper transform and has great bowing and welding properties.

Because of the materials high quality nature, utilizing S690ql will advance leaner outlined structures with expanded payload limit and vitality proficiency.

Offering an extensive variety of overwhelming work structural steel for our clients. Scaffold plate and building structure boards steel sheet are accessible in different evaluations like straight review, low carbon evaluation and high carbon evaluation as indicated by the prerequisite of our client.

### **CHHAJED STEEL & ALLOYS PVT.LTD.**

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### **WORKS PLACE-I**

E11, BALAJI PLAZA, VILLAGE – USATANE, TAL - AMBERNATH, DIST – THANE, MUMBAI – 421 306

### **WORKS PLACE-II**

NAVKAR CUTTER, PLOT NO – M 68, MIDC, TALOJA INDL AREA, RAIGAD, NAVI MUMBAI – 410 208



It would be ideal if you allude to the specialized subtle elements beneath alluding to S690ql.

### S690QL - Grade Designation

**The grade designation of S690QL is the following:** S = Structural Steel

690 = minimum yield strength (MPa)

Q = Quenching & Tempering

L = Low notch toughness testing temperature

## CHEMICAL COMPOSITION

Grade	C	Si	Mn	P	S	N	B	Cr	Cu	Mo	Nb*	Ni	Ti*	V*	Zr*
S690QL	0.20	0.80	1.70	0.025	0.015	0.015	0.0050	1.50	0.50	0.70	0.06	2.00	0.05	0.12	0.15

### Mechanical Properties

Designation		Mechanical Properties (ambient temperature)						
Steel Name	Steel Number	Min. Yield Strength Reh MPa			Tensile Strength Rm MPa			Min. % elongation after fracture
		Nominal thickness (mm)			Nominal thickness (mm)			
		≥3	≥50	≥100	≥3	≤50	≥50	
		≤50	≤100	≤150		≤100	≤150	
S690QL	1.8931	690	650	630	770/940	760/930	710/900	14

## V NOTCH IMPACT TESTING

Grade	Sample Orientation	@ 0°C	@ -20°C	@ -40°C	@ -60°C
S690QL	Longitudinal	50 J	40 J	30 J	—
	Traverse	35 J	30 J	27 J	—

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**Applications:**

- Machine building
- Lifting equipment
- Heavy transportation
- Steel constructions

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