

This page is mainly introduced the S890QL Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of S890QL, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Datasheet for Steel Grades Special Steel S890QL**

S890QL Standard Number:				
ITEM Standard Number Descriptions				

S890QL Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
≤0.2	≤0.80	≤1.7	≤0.020	≤0.010	≤1.5	≤2.00	≤0.7	≤0.12	
W	N	Cu	Со	Pb	В	Nb	AI	Ti	Other
	≤0.015	≤0.5			≤0.005	≤0.06		≤0.05	CEV:≤0.8 2

Plates and wide flats made of high yield strength structural steels in the quenched and tempered or precipitation hardened conditions. Delivery conditions for quenched and tempered steels

S890QL Physical Properties					
Tensile strength	115-234	σb/MPa			
Yield Strength	23	σ 0.2 ≥/MPa			
Elongation	65	δ5≥ (%)			
ψ	-	ψ≥ (%)			
Akv	-	Akv≥/J			
HBS	123-321	-			
HRC	30	-			

S890QL Mechanical Properties					
Tensile strength	231-231	σb/MPa			



Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

	S890QL Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T						
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			

S890QL Range of products							
Product type	Products	Dimension	Processes	Deliver Status			
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting			
Steel Bar	Round Bar, Flat Bar, Square Bar	Ф8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,			
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot- Rolled	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting			
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED			

## We can produce Special Steel the specifications follows: