

This page is mainly introduced the 01X50 XS Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 01X50 XS, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel 01X50 XS

ITEM Cranded Number	
ITEM Standard Number Descriptions	

01X50 XS Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.47-0.55	0.17-0.37	0.60-0.90	0.035	0.020-0.0 40	0.30	0.30			
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other
		0.30							

01X50 XS

01X50 XS 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	-				

01X50 XS 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	-	

01X50 XS Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

01X50 XS 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	Φ8-1200mm*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 Structure Steel the specifications follows: