

This page is mainly introduced the XK5160S Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of XK5160S, 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 XK5160S**

	XK5160S Standard Number:				
ITEM Standard Number Descriptions					

XK5160S Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%) Max.(%)					Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.55-0.65	0.10-0.35	0.70-1.00	0.04	0.04	0.70-0.90				
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

## XK5160S

XK5160S 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	-			

XK5 <sup>2</sup>	XK5160S Mechanical Properties			
Tensile strength	231-231	σb/MPa		
Yield Strength	154	σ 0.2 ≥/MPa		



## Steel GradesXK5160S Chemical information, Mechanical properties

Physical properties, Mechanical properties, Heat treatment, and Micro structure

Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

XK5160S Heat Treatment Regime						
Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√		

XK5160S 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 Structure Steel the specifications follows: