

This page is mainly introduced the K5160HS Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of K5160HS, 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 K5160HS**

	K5160HS Standard Number:				
ITEM	Standard Number	Descriptions			

K5160HS Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
0.55-0.65	0.10-0.35	0.65-1.10	0.04	0.04	0.60-1.00				
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

## K5160HS

K5160HS 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	-			

K516	K5160HS Mechanical Properties				
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			



## Steel GradesK5160HS 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	-

K5160HS Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
√	√	√	√	√		

K5160HS 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: