

This page is mainly introduced the K40 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of K40, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Alloy K40

K40 Standard Number:					
ITEM Standard Number Descriptions					

K40 Chemical composition(mass fraction)(wt.%)									
	Chemical Min.(%) Max.(%)								
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.45-0.55	≤1(00	≤1.00	0.040	0.040	24.50-26. 50	9.50-11. 0	.5		
W	N	Cu	Со	Pb	В	Nb	AI	Ti	Other
7.00-8.00			Bal						

K40

K40 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	-				

K40 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			

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

K40 Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

K40 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 Special Alloy the specifications follows: