

This page is mainly introduced the CX-7 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of CX-7, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Tool Steel And Hard Alloy CX-7

	CX-7 Standard Number:				
ITEM	Standard Number	Descriptions			

CX-7 Chemical composition(mass fraction)(wt.%)									
	Chemical Min.(%)				Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
4.59									4.69
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other
65.72			25.0						

CX-7 Density / (g/cm ^ 3) : 13.10 Hardness HRC: 84.3 σ bb/MPa: 2320 Grain size/ μ m: 1 ~ 2 Use for example: in a very severe impact can be used under the conditions

CX-7 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	-			

Steel GradesCX-7 Chemical information, Mechanical properties

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

CX-7 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	-			

CX-7 Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
√	√	√	√	√		

CX-7 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 Tool Steel And Hard Alloy the specifications follows: