

This page is mainly introduced the C120U Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of C120U, 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 C120U

	C120U Standard Number:				
ITEM Standard Number Descriptions					

C120U Chemical composition(mass fraction)(wt.%)										
	Chemical Min.(%) Max.(%)									
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Ta
1.10-1.29	0.15-0.35	0.15-0.35	0.025	0.020	Max 0.25	Max 0.2	25			
W	N	Cu	Co	Pb	В	Nb		Al	Ti	Other

## C120U

C120U 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	-			

C12	C120U Mechanical Properties				
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			



## Steel GradesC120U 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	-

C120U Heat Treatment Regime						
Annealing Quenching Tempering Normalizing Q &						
√	√	√	√	√		

C120U 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 Tool Steel And Hard Alloy the specifications follows: