

This page is mainly introduced the CZ-4 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of CZ-4,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 CZ-4

	CZ-4 Standard Number:			
ITEM Standard Number Descriptions				

CZ-4 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%)							Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
6.94									7.50
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other
68.06			9.5					8.00	

C7-4

Physical and mechanical performance | density g/cm ^ 3:12.00

Physical and mechanical performance | hardness HRC: 91.0

Physical and mechanical performance | σ bb MPa: 1760

Physical and mechanical performance | grain size μ m: 3

Use for example: for steel general processing

CZ-4 Physical Properties					
Tensile strength	115-234	σb/MPa			

Steel GradesCZ-4 Chemical information, Mechanical properties

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

Yield Strength	23	σ 0.2 ≥/MPa
Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

CZ-4 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	-			

CZ-4 Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
√	√	√	√	√		

CZ-4 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: