

This page is mainly introduced the W2Mo9Cr4V2 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of W2Mo9Cr4V2, 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 W2Mo9Cr4V2

	W2Mo9Cr4V2 Standard Number:					
ITEM Standard Number		Descriptions				

W2Mo9Cr4V2 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
0.97[1.05	0.20[0.55	0.15[]0.40	≤0.030	≤0.030	3.50[4.00		8.20[9.20	1.75[2.25	
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other
1.40[2.10									

The performance characteristics of high-speed tool steel with purpose

- (1) use of steel DianZhaLu smelting, the silicon content not specified limit.
- (2) in order to improve steel cutting machining, the buyer's request, can be provisions for sulfur ω (S) 0.60% \sim 0.15%.
- (3) of residual elements in steel (mass fraction) : 0.30% or Ni; Cu 0.25% or less.
- (4) is the high tungsten molybdenum content allowed ω (Mo) more than 1.00%. Steel tungsten molybdenum and the relationship is: when molybdenum content more than ω (Mo) 0.30%, tungsten content reduced correspondingly, in molybdenum content more than ω (Mo) 0.30% of the part, each ω (Mo) 1% can replace ω (W) 2%, if meet this kind of case, in this GangHao add after "Mo".



(5) W6Mo5Cr4V2 steel according to both the supply and the demand agreement, adjust the content of vanadium ω (V) 1.60% \sim 2.20%.

W2Mo9Cr4V2 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	-			

W2Mo9Cr4V2 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	-			

W2Mo9Cr4V2 Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T	
√	√	√	√	√	

W2Mo9Cr4V2 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		



Steel GradesW2Mo9Cr4V2 Chemical information, Mechanical properties

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

Pipes / Tubes Seamless Pipes/Tubes, Welded Pipes/Tubes WT:0.5-20.0mm Hot extrusion, Cold Drawn, Welded Pipes/Tubes WT:0.5-20.0mm Drawn, Welded Aging, Q+T, ACID-WASHED

We can produce Tool Steel And Hard Alloy the specifications follows: