

This page is mainly introduced the Cr12MoV Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Cr12MoV, 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 Cr12MoV

Cr12MoV Standard Number:						
ITE	ITEM Standard Number Descriptions					

Cr12MoV Chemical composition(mass fraction)(wt.%)										
Chemical Min.(%) Max.(%)										
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
1.45[]1.70	≤0.40	≤0.40	≤0.030	≤0.030	11.00∏12. 50	≤0.20		0.40[]0.60	0.15[0.30	
W	Ν	Cu	Со	Pb	В	Nb		Al	Ti	Other
		≤0.30								

Cr12MoV 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	-	

Cr12MoV 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	-				

Cr12MoV Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		

Cr12MoV 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: