

This page is mainly introduced the SMCr12Mo1V1 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SMCr12Mo1V1, 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 SMCr12Mo1V1

	SMCr12Mo1V1 Standard Number:				
ITEM	Standard Number	Descriptions			

SMCr12Mo1V1 Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
1.40□1.60	0.10[0.60	0.10[0.60	≤0.030	≤0.030	11.0[]13.0		0.70□1.20	0.50[1.10	
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

## SMCr12Mo1V1

SMCr12Mo1V1 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	-			

SMCr12Mo1V1 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			



## Steel GradesSMCr12Mo1V1 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	-

SMCr12Mo1V1 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√			

SMCr12Mo1V1 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: