

This page is mainly introduced the 10Cr9Mo1VNb Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 10Cr9Mo1VNb, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel 10Cr9Mo1VNb

	10Cr9Mo1VNb Standard Number:					
ITEM	ITEM Standard Number Descriptions					

10Cr9Mo1VNb Chemical composition(mass fraction)(wt.%)										
	Chemical				Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta	
0.08-0.12	0.20-0.50	0.30-0.60	0.01	0.02	8.00-9.50		0.85-1.05			
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other	
	0.03-0.07									

10Cr9Mo1VNb

10Cr9Mo1VNb 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	-			

10Cr9N	10Cr9Mo1VNb Mechanical Properties				
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			



Steel Grades10Cr9Mo1VNb 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	-

10Cr9Mo1VNb Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
√	√	√	√	√		

10Cr9Mo1VNb 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 Structure Steel the specifications follows: