

This page is mainly introduced the 9Cr18Mo Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 9Cr18Mo, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Datasheet for Steel Grades Special Steel 9Cr18Mo**

9Cr18Mo Standard Number:				
ITEM Standard Number Descriptions				

9Cr18Mo Chemical composition(mass fraction)(wt.%)										
Chemical Min.(%) Max.(%)										
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Ta
0.95-1.10	Max 0.80	Max 0.80	0.035	Max 0.03	16.00-18. 00	Max 0.6	50	0.40-0.70		
W	N	Cu	Со	Pb	В	Nb		Al	Ti	Other

## 9Cr18Mo

9Cr18Mo 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	-				

9Cr18Mo Mechanical Properties						
Tensile strength	231-231	σb/MPa				
Yield Strength	154	σ 0.2 ≥/MPa				
Elongation	56	δ5≥(%)				

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Ψ	-	ψ≥(%)
Akv	<u>-</u>	Akv≥/J
HBS	235-268	-
HRC	30	-

9Cr18Mo Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			

9Cr18Mo 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 Special Steel the specifications follows: