

This page is mainly introduced the X4MnCr18 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X4MnCr18, 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 X4MnCr18

	X4MnCr18 Standard Number:				
ITEM Standard Number Descriptions					

X4MnCr18 Chemical composition(mass fraction)(wt.%)										
Chemical				Min.(%)				Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta	
0.30-0.50	Max 1.00	17.00-19. 00			3.00-5.00	Max 1.0	0			
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other	
	Max 0.10									

X4MnCr18cf

X4MnCr18 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	-			

X4MnCr18 Mechanical Properties					
Tensile strength	231-231	σb/MPa			



Steel GradesX4MnCr18 Chemical information, Mechanical properties

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

Yield Strength	154	σ 0.2 ≥/MPa	
Elongation	56	δ5≥(%)	
Ψ	-	ψ≥(%)	
Akv	-	Akv≥/J	
HBS	235-268	-	
HRC	30	-	

X4MnCr18 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√			

X4MnCr18 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	Ф8-1200mm*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: