

This page is mainly introduced the X2CrNiMoN18-12-4 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiMoN18-12-4, 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 X2CrNiMoN18-12-4

	X2CrNiMoN18-12-4 Standard Number:					
ITEM	ITEM Standard Number Descriptions					

X2CrNiMoN18-12-4 Chemical composition(mass fraction)(wt.%)										
Chemical				Min.(%)				Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta	
0.030	1.00	2.00	0.045	0.015	16.5-19.5	10.5-14.	0 3.00-4.00			
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other	
	0.10-0.20		_							

X2CrNiMoN18-12-4

X2CrNiMoN18-12-4 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	-			

X2CrNiMoN18-12-4 Mechanical Properties						
Tensile strength	231-231	σb/MPa				
Yield Strength	154	σ 0.2 ≥/MPa				

Steel GradesX2CrNiMoN18-12-4 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	-

X2CrNiMoN18-12-4 Heat Treatment Regime						
Annealing Quenching Tempering Normalizing Q &						
√	√	√	√	√		

X2CrNiMoN18-12-4 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: