

This page is mainly introduced the X2CrNi12 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNi12, 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 X2CrNi12

	X2CrNi12 Standard Number:	
ITEM Standard Number Descriptions	indard Number Descriptions	ITEM

X2CrNi12 Chemical composition(mass fraction)(wt.%)

	Chemical			Min.(%) Max.(%)			Min.(%)			
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
0.030	Max 1.00	Max 1.50	Max 0.040	Max 0.015	10.50-12. 50	0.30-1.0	00			
W	Ν	Cu	Co	Pb	В	Nb		AI	Ti	Other
	Max 0.030									

X2CrNi12

X2CrNi12 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	-			

X2CrNi12 Mechanical Properties					
Tensile strength	231-231	σb/MPa			



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

X2CrNi12 Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

X2CrNi12 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: