

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 Specialsteel X2CrNi12

	X2CrNi12 Standard Number:						
ITEM	Standard Number	ndard Number Descriptions					
1	NF EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels					
2	NF EN 10088-1	Stainless steels - Part 1: List of stainless steels					
3	NF EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes					
4	NF EN 10088-3	Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes					
5	NF EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes					
6	NF EN 10088-5	Stainless steels - Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes					
7	NF EN 10272	Stainless steel bars for pressure purposes					
8	NF EN 10296-2 (2005)	Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel					

X2CrNi12 Chemical composition(mass fraction)(wt.%)								
Chemica		Min.(%)			Max.(%)			
С					0.030			
Si						1.00		
Mn						1.50		
Р		0.040						
S					0.015			
Cr		10.50			12.50			
Мо								
Ni		0.30			1.00			
N					0.030			
C Si	Mn	Р	S	Cr	Ni	Мо	V	Та



Steel GradesX2CrNi12 Chemical information, Mechanical properties

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

W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery

conditions - Part 2: Stainless steel

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	-			

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X2CrNi12 Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
√	√	√	√	√		

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	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 Specialsteel the specifications follows: