

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	Descriptions				
1	DIN EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels				
2	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels				
3	DIN EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes				
4	DIN 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	DIN EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes				
6	DIN 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	DIN EN 10272	Stainless steel bars for pressure purposes				
8	DIN 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.%)									
Chemical				Min.(%)			Max.(%)		
	С						0.03		
	Si						1.00		
	Mn							1.50	
	Р			0.040					
	S							0.015	
	Cr			10.5				12.5	
	Ni			0.3	30		1.00		
	N			0.030			0.030		
С	Si	Mn	Р	S	Cr	Ni	Ni Mo V		Та
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Steel GradesX2CrNi12 Chemical information, Mechanical properties

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

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Stainless steels - Technical delivery conditions for drawn wire Ferritic 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	-				

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

	X2CrNi12 Range of products						
Product type	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 GradesX2CrNi12 Chemical information, Mechanical properties

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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: