## X2CrNiMoN17-11-2 Chemical information, Mechanical prop

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

This page is mainly introduced the X2CrNiMoN17-11-2 chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiMoN17-11-2,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

## Data Table for Grades Stainless Steels X2CrNiMoN17-11-2

X2CrNiMoN17-11-2 Standard Number:			
ITEM	Standard Number	Descriptions	
1	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels	
2	DIN EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes	
3	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	
4	DIN EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes	
5	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	
6	DIN 17440 (1975)	Stainless steels - Technical delivery conditions for drawn wire	
7	DIN 17441 (1997)	Stainless steels - Technical delivery conditions for cold rolled strips and slit coils strip and sheets cut from such strips for pressure purposes	
8	DIN 17440 (1996)	Stainless steels - Technical delivery conditions for drawn wire	
9	DIN EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels	
10	DIN EN 10222-5	Steel forgings for pressure purposes - Part 5: Martensitic, austenitic and austenitic- ferritic stainless steels	
11	DIN EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels	
12	DIN EN 10272	Stainless steel bars for pressure purposes	

X2CrNiMoN17-11-2 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.030		
Si		1.00		
Mn		2.00		
Р		0.045		
S		0.030		
Cr	16.5	18.5		
Мо	2.00	2.50		



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Ni	10.0	12.0
N	0.12	0.22

X2CrNiMoN17-11-2 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	-		

X2CrNiMoN17-11-2 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	-		

X2CrNiMoN17-11-2 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

X2CrNiMoN17-11-2 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	



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