

This page is mainly introduced the X2CrNiMoN17-13-5 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiMoN17-13-5, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel X2CrNiMoN17-13-5

	X2CrNiMoN17-13-5 Standard Number:					
ITEM	Standard Number	Descriptions				
1	DIN 17440 (1996)	Stainless steels - Technical delivery conditions for drawn wire				
2	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				
3	DIN 17455 (1985)	Welded circular tubes of stainless steels for general requirements; technical delivery conditions				
4	DIN 17456 (1985)	Seamless circular tubes of stainless steels for general requirements; technical delivery conditions				
5	DIN 17457 (1985)	Welded circular tubes of austenitic stainless steels for special requirements; technical delivery conditions				
6	DIN 17458 (1985)	Seamless circular tubes of austenitic stainless steels for special requirements; technical delivery conditions				
7	DIN EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels				
8	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels				
9	DIN EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes				
10	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				
11	DIN EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes				
12	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				
13	DIN EN 10216-5 (2004)	Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 5: Stainless steel tubes				
14	DIN EN 10217-7	Welded steel tubes for pressure purposes - Technical delivery conditions - Part 7: Stainless steel tubes				
15	DIN EN 10253-3	Butt-welding pipe fittings - Part 3: Wrought austenitic and austenitic-ferritic (duplex) stainless steels without specific inspection requirements				
16	DIN EN 10253-4	Butt-welding pipe fittings - Part 4: Wrought austenitic and austenitic-ferritic (duplex) stainless steels with specific inspection requirements				
17	DIN EN 10272	Stainless steel bars for pressure purposes				



18	DIN EN 10296-2 (2005)	Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel
19	DIN EN 10297-2 (2005)	Seamless circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel

## X2CrNiMoN17-13-5 Chemical composition(mass fraction)(wt.%)

Chemical			Min.(%)			Max.(%)				
С						0.030				
Si						1.00				
Mn						2.00				
Р						0.045				
S						0.015				
Cr			16.5			18.5				
Ni			12.5			14.5				
Мо			4.00			5.00				
N			0.12			0.22				
Si Mn P S Cr		Cr	Ni	Мо	V	Та				
N	Cu	Co	Pb	В	Nb	Al	Ti	Other		
	C Si Mn P S Cr Ni Mo N Si	C Si Mn P S Cr Ni Mo Si Mn Mn	C Si Mn Mn P S C C C C C C C S S C C C S S M M C C C C	C	C       Image: Simple state in the state i	C       Si         Si $$	CImage: second sec	C $\sim$ <th< td=""></th<>		

## Stainless steels - Technical delivery conditions for drawn wire

X2CrNiMoN17-13-5 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	-			

X2CrNiMoN17-13-5 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength154 $\sigma 0.2 \ge /MPa$					



Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

X2CrNiMoN17-13-5 Heat Treatment Regime					
Annealing Quenching Tempering Normalizing Q & T					
$\checkmark$	$\checkmark$	$\checkmark$			

X2CrNiMoN17-13-5 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: