

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					

### Steel GradesX2CrNiMoN17-13-5 Chemical information, Mechanical properties

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

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				
С	Si	Mn	P S Cr		Ni		Мо	V	Та	
W	N	Cu	Co	Pb	В	Nb		Al	Ti	Other

## 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 Strength	154	σ 0.2 ≥/MPa		

### Steel GradesX2CrNiMoN17-13-5 Chemical information, Mechanical properties

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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					
√	√	√	√	√	

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: