

This page is mainly introduced the X17CrNi16-2 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X17CrNi16-2, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel X17CrNi16-2

X17CrNi16-2 Standard Number:					
ITEM	Standard Number	Descriptions			
1	DIN 17440 (1996)	Stainless steels - Technical delivery conditions for drawn wire			
2	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels			
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 10088-5	Stainless steels - Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes			
5	DIN EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels			
6	DIN EN 10272	Stainless steel bars for pressure purposes			

X17CrNi16-2 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С				0.12			0.22		
	Si				1.00				
Mn				1.50					
Р							0.045		
S							0.015		
	Cr			15	.0		17.0		
	Ni			1.50			2.50		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

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

X17CrNi16-2 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	-			

X17CrNi16-2 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	-			

X17CrNi16-2 Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T	
√	√	√	√	√	

X17CrNi16-2 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	Ф8-1200mm*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		



Steel GradesX17CrNi16-2 Chemical information, Mechanical properties

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

Pipes / Tubes Seamless Pipes/Tubes, Welded Pipes/Tubes OD:6-219mm x WT:0.5-20.0mm Hot extrusion, Cold Drawn, Welded Aging, Q+T, ACID-WASHED

We can produce Specialsteel the specifications follows: