

This page is mainly introduced the X20CrMo13 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X20CrMo13, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel X20CrMo13

X20CrMo13 Standard Number:						
ITEM	Standard Number	Descriptions				
1	SEW 400	Stainless steels for rolled and forged products				
2	DIN 17442 (1977)	Rolled, Wrought or Cast Stainless Steel Products for Medical Instruments				

X20CrMo13 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С				0.17			0.22		
Si							1.00		
	Mn						1.00		
Р							0.040		
S							0.015		
Cr				12.0			14.0		
	Мо			0.90			1.30		
	Ni						1.00		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

## Rolled, Wrought or Cast Stainless Steel Products for Medical Instruments

X20CrMo13 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	-

X20CrMo13 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
ψ	-	ψ≥(%)			
Ακν	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

X20CrMo13 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				

X20CrMo13 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: