

This page is mainly introduced the X3CrNiMo13-4 chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X3CrNiMo13-4, 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 X3CrNiMo13-4

X3CrNiMo13-4 Standard Number:				
ITEM	Standard Number	Descriptions		
1	NF EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels		
2	NF EN 10088-1	Stainless steels - Part 1: List of stainless steels		
3	NF EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes		
4	NF 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		
5	NF EN 10222-5	Steel forgings for pressure purposes - Part 5: Martensitic, austenitic and austenitic ferritic stainless steels		
6	NF EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels		
7	NF EN 10272	Stainless steel bars for pressure purposes		

X3CrNiMo13-4 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.05		
Si		0.70		
Mn		1.50		
Р		0.040		
S		0.015		
Cr	12.00	14.00		
Мо	0.30	0.70		
Ni	3.50	4.50		
N	0.020			

X3CrNiMo13-4 Physical Properties			
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	

X3CrNiMo13-4 Chemical information, Mechanical propertie

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

Elongation	65	δ5≥ (%)
Ψ	-	
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

X3CrNiMo13-4 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	-		

X3CrNiMo13-4 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	V	V	√

X3CrNiMo13-4 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 Stainless Steels the specifications follows: