

CCTTC - 1Cr18Ni12 Datasheet, Chemical Composition Compared with 0 cr19ni9, processing low hardenability. Used for spinning processing, special drawing, cold heading 1Cr18Ni12 Mechanical properties, Physical properties, Mechanical properties, Heat treatment, 1Cr18Ni12 Supplier

Compared with 0 cr19ni9, processing low hardenability. Used for spinning processing, special drawing, cold heading 1Cr18Ni12 steel chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of **1Cr18Ni12**,such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Materials Stainless Steels & Special Steels Compared with 0 cr19ni9, processing low hardenability. Used for spinning processing, special drawing, cold heading <u>1Cr18Ni12</u>

1Cr18Ni12 Standard Number					
ITEM	Standard Number	Descriptions			
1	GB/T 1220 (1992)	Stainless steel bars			
2	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates			
3	GB/T 4226 (2004)	Cold finished stainless steel bars			
4	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates			
5	GB/T 4239 (1991)	Cold rolled stainless steel and heat resisting steel strips			
6	GB/T 4240 (1993)	Stainless steel wires			
7	GB/T 4356 (2002)	Stainless steel wire rods			

1Cr18Ni12 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С							0.12		
	Si							1.00	
	Mn						2.00		
	Р							0.035	
	S							0.030	
	Ni			10.50		13.00			
	Cr			17.00			19.00		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та

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W	Ν	Cu	Со	Pb	В	Nb	Al	Ti	Other

1Cr18Ni12 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						

1Cr18Ni12 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	-				

1Cr18Ni12 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
\checkmark \checkmark \checkmark \checkmark \checkmark							

1Cr18Ni12 Range of products						
Product type	Products	Dimension	Processes	Deliver Status		

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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 & Special Steels the specifications follows:

Note:

(1) listed in the table apex diameter (d), to steel thickness (a) multiples said. (2) in the ASTM A6 standard specified scope can meet any additional conditions. (3) from the standard for 50 mm (2 in). Mechanical properties Mechanische Eigenschaften Caracteristiques mecaniques ReH Minimum yield strength / Mindestwert der oberen Streckgrenze / Limite d'elasticite minimale Rm Tensile strength / Zugfestigkeit / Resistance a la traction A Minimum elongation / Mindestwert der Bruchdehnung / Allongement minimal J Notch impact test / Kerbschlagbiegeversuch / Essai de flexion par choc Round bar: Diameter: 1mm-2000mm Square bar: Size: 50mm * 50mm-600mm *600mm Plate steel/flat bar: Size: Thickness: 0.1mm-800mm Width: 10mm to 1500mm Tube/pipe: Size: OD: 6-219mm WT: 1-35 mm. Cold-rolled sheet: Thickness: 2-5mm Width:1000mm Length: 2000mm Hot-rolled sheet: Thickness:6-80mm Width: 210-610mm Length: We can supply any length based on the customer's requirement. Forging/hot rolling/ extrusion of steel.



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Forging: Shafts with flanks/pipes/tubes/slugs/donuts/cubes/other shapes

Finished goods condition: hot forging/hot rolling + annealing/normalizing + tempering/quenching + tempering/any conditions based on the customer's requirement

Surface conditions: scaled (hot working finish)/ground/rough machining/fine machining/based on the customer's requirement

Furnaces for metallurgical processing: electrode arc + LF/VD/VOD/ESR/Vacuum consumable electrode.

Ultrasonic inspection: 100% ultrasonic inspection for any inperfections or based on the customer's requirement.

UTS according to SEP 1921 C/c,D/d,E/e;A388 or GB/T 6402

Excellent service for all kinds of industries, with advantages of technologies, equipment and price. We serve you with our honesty, integrity, and professionality.