

CCTTC - X5CrNiMoCuNb14-5 Datasheet, Chemical Composit 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 X5CrNiMoCuNb14-5 Mechanical properties, Physical properties, Mechanical properties, Heat treatment, X5CrNiMoCuNb14-5

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 X5CrNiMoCuNb14-5 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 **X5CrNiMoCuNb14-5**, 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 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 <u>X5CrNiMoCuNb14-5</u>

X5CrNiMoCuNb14-5 Standard Number				
ITEM	Standard Number	Descriptions		
1	BS EN 10088-1	Stainless steels - Part 1: List of stainless steels		
2	BS 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		

X5CrNiMoCuNb14-5 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.07		
Si		0.70		
Mn		1.00		
Р		0.04		
S		0.015		
Cr	13.00	15.00		
Ni	5.00	6.00		
Мо	1.20	2.00		
Nb+Ta	0.15	0.60		
Cu	1.20	2.00		



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С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	Ν	Cu	Со	Pb	В	Nb	Al	Ti	Other

X5CrNiMoCuNb14-5 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	-			

X5CrNiMoCuNb14-5 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	-			

X5CrNiMoCuNb14-5 Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T	
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

X5CrNiMoCuNb14-5 Range of products



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Product type Products Dimension Processes **Deliver Status** Plates / Sheets 0.08-200mm(T)*W*L Forging, hot rolling Annealed, Solution Plates / Sheets and cold rolling and Aging, Q+T, ACID-WASHED, Shot Blasting Round Bar, Flat Bar, Φ8-1200mm*L Forging, hot rolling Black, Rough Steel Bar and cold rolling, Square Bar Turning, Shot Cast Blasting, Steel Coil /Steel 0.03-16.0x1200mm Cold-Rolled & Hot-Annealed, Solution Coil / Strip Rolled Strip and Aging, Q+T, ACID-WASHED, Shot Blasting OD:6-219mm x Hot extrusion, Cold Annealed, Solution Seamless Pipes / Tubes Pipes/Tubes, Welded WT:0.5-20.0mm Drawn, Welded and Aging, Q+T, Pipes/Tubes 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



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Length: We can supply any length based on the customer's requirement.

Forging/hot rolling/ extrusion of steel.

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.