

This page is mainly introduced the 00Cr17Ni14Mo2 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 00Cr17Ni14Mo2,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 00Cr17Ni14Mo2

00Cr17Ni14Mo2 Standard Number:				
ITEM	Standard Number	Descriptions		
1	GB 13296 (2007)	Seamless stainless steel tubes for boiler and heat exchanger		
2	GB 2270 (1980)	Seamless tubes		
3	GB/T 1220 (1992)	Stainless steel bars		
4	GB/T 12770 (2002)	Welded stainless steel tubes for machine structures		
5	GB/T 12771 (2000)	Welded stainless steel pipes for liquid delivery		
6	GB/T 14975 (2002)	Stainless steel seamless tubes for structures		
7	GB/T 14976 (2002)	Stainless steel seamless tubes for fluid transport		
8	GB/T 3089 (1982)	Thinnest-wall seamless tubes of stainless and acid-resistance steel		
9	GB/T 3090 (2000)	Stainless steel small diameter seamless steel tubes		
10	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates		
11	GB/T 4226 (2004)	Cold finished stainless steel bars		
12	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates		
13	GB/T 4239 (1991)	Cold rolled stainless steel and heat resisting steel strips		
14	GB/T 4240 (1993)	Stainless steel wires		
15	GB/T 4356 (2002)	Stainless steel wire rods		
16	JB 4728 (2000)	Stainless Steel Forgings for Pressure Vessels		

00Cr17Ni14Mo2 Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	
С		0.030	
Si		1.00	
Mn		2.00	
Р		0.035	
S		0.030	
Ni	12.00	15.00	



00Cr17Ni14Mo2 Chemical information, Mechanical properties Physical properties, Mechanical properties, Heat treatment, and

Micro structure

Cr	16.00	18.00
Мо	2.00	3.00

00Cr17Ni14Mo2 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	-	

00Cr17Ni14Mo2 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	-		

00Cr17Ni14Mo2 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	V	V	V	V

00Cr17Ni14Mo2 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



00Cr17Ni14Mo2 Chemical information, Mechanical propert

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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.

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

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