

This page is mainly introduced the Y0Cr12Ni12Mo chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Y0Cr12Ni12Mo,such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Data Table for Grades Special Alloy Y0Cr12Ni12Mo

Y0Cr12Ni12Mo Standard Number:				
М	Standard Number	Descrip	tions	
Y0Cr12Ni12Mo Chemical composition(mass fraction)(wt.%)				
Chemical Min.(%) Max.(%)				
	Y0Cr1	2Ni12Mo Physical Prope	erties	
	Tensile strength	115-234		
	Tensile strength Yield Strength	115-234 23	σb/MPa σ 0.2 ≥/MPa	
	Tensile strength Yield Strength Elongation			
	Yield Strength	23	σ 0.2 ≥/MPa	
	Yield Strength Elongation	23	σ 0.2 ≥/MPa δ5≥ (%)	
	Yield Strength Elongation Ψ	23 65 -	σ 0.2 ≥/MPa δ5≥ (%) ψ≥ (%)	

Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

	Y0Cr12Ni12M	lo Heat Treatn	nent Regime		
Annealing Quenching Tempering Normalizing Q & T					



## Y0Cr12Ni12Mo Chemical information, Mechanical propertie

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

√ √	$\checkmark$	$\checkmark$	$\checkmark$
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Y0Cr12Ni12Mo 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 Special Alloy 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. 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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We serve you with our honesty, integrity, and professionality.