

This page is mainly introduced the X2CrNiM0l8-15-4 chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiM0l8-15-4,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 X2CrNiM0I8-15-4

| | X2CrNiM0l8-15-4 Standard Number: | | | | |
|------|----------------------------------|--------------|--|--|--|
| ITEM | Standard Number | Descriptions | | | |

| X2CrNiM0l8-15-4 Chemical composition(mass fraction)(wt.%) | | | |
|---|---------|---------|--|
| Chemical | Min.(%) | Max.(%) | |

| X2CrNiM0l8-15-4 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 | - | |

| X2CrNiM0l8-15-4 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 | - | |

X2CrNiM0l8-15-4 Heat Treatment Regime



X2CrNiM0l8-15-4 Chemical information, Mechanical proper

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

| Annealing | Quenching | Tempering | Normalizing | Q & T |
|--------------|-----------|-----------|-------------|-------|
| \checkmark | √ | √ | √ | √ |

| X2CrNiM0l8-15-4 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 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



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

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

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.

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