

## GH4302

Nickel-base superalloy GH4302 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 **GH4302**,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

### Data Table for Grades Superalloys Nickel-base superalloy GH4302

| GH4302 Standard Number |                 |              |
|------------------------|-----------------|--------------|
| ITEM                   | Standard Number | Descriptions |

| GH4302 Chemical composition(mass fraction)(wt.%) |         |         |
|--------------------------------------------------|---------|---------|
| Chemical                                         | Min.(%) | Max.(%) |
| C                                                |         | 0.08    |
| Cr                                               | 12.0    | 16.0    |
| Mo                                               | 1.5     | 2.5     |
| Ni                                               | 38.0    | 42.0    |
| W                                                | 3.5     | 4.5     |
| Al                                               | 1.8     | 2.3     |
| Ti                                               | 2.3     | 2.8     |
| B                                                |         | 0.01    |
| Mn                                               |         | 0.6     |
| Ce                                               |         | 0.02    |
| Zr                                               |         | 0.05    |

| GH4302 Physical Properties |         |     |
|----------------------------|---------|-----|
| Tensile strength           | 115-234 | MPa |



## GH4302

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|                |         |             |
|----------------|---------|-------------|
| Yield Strength | 23      | ? 0.2 ?/MPa |
| Elongation     | 65      | ?5? (%)     |
| ?              | -       | ?? (%)      |
| Akv            | -       | Akv?/J      |
| HBS            | 123-321 | -           |
| HRC            | 30      | -           |

### GH4302 Mechanical Properties

|                  |         |             |
|------------------|---------|-------------|
| Tensile strength | 231-231 | ?b/MPa      |
| Yield Strength   | 154     | ? 0.2 ?/MPa |
| Elongation       | 56      | ?5?(%)      |
| ?                | -       | ??(%)       |
| Akv              | -       | Akv?/J      |
| HBS              | 235-268 | -           |
| HRC              | 30      | -           |

### GH4302 Heat Treatment Regime

| Annealing | Quenching | Tempering | Normalizing | Q & T |
|-----------|-----------|-----------|-------------|-------|
| ?         | ?         | ?         | ?           | ?     |

### GH4302 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 | ?8-1200mm*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          |



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|               |                                                |                               |                                      | Blasting                                              |
|---------------|------------------------------------------------|-------------------------------|--------------------------------------|-------------------------------------------------------|
| Pipes / Tubes | Seamless<br>Pipes/Tubes, Welded<br>Pipes/Tubes | OD:6-219mm x<br>WT:0.5-20.0mm | Hot extrusion, Cold<br>Drawn, Welded | Annealed, Solution and<br>Aging, Q+T, ACID-<br>WASHED |

## We can produce Superalloys 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 imperfections 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 professionalism.