



## CCTTC - Ni Span C902 Datasheet, Chemical Composition

Iron-Nickel Alloy, Strip 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al  
Solution Heat Treated, Cold Rolled, 50% Reduction Ni Span  
C902 Mechanical properties, Physical properties, Mechanical  
properties, Heat treatment, Ni Span C902 Supplier

Iron-Nickel Alloy, Strip 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al Solution Heat Treated, Cold Rolled, 50% Reduction [Ni Span C902](#) 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 **Ni Span C902**, 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 Iron-Nickel Alloy, Strip 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al Solution Heat Treated, Cold Rolled, 50% Reduction [Ni Span C902](#)

### [Ni Span C902](#) Standard Number

| ITEM | Standard Number      | Descriptions                                                                                                    |
|------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| 1    | SAE AMS 5225F (2009) | Iron-Nickel Alloy, Strip 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al Solution Heat Treated, Cold Rolled, 50% Reduction |

### [Ni Span C902](#) Chemical composition(mass fraction)(wt.%)

| Chemical |    |    |   | Min.(%) |    |    | Max.(%) |   |    |
|----------|----|----|---|---------|----|----|---------|---|----|
| C        |    |    |   |         |    |    | 0.03    |   |    |
| Si       |    |    |   |         |    |    |         |   |    |
| Mn       |    |    |   |         |    |    |         |   |    |
| Cr       |    |    |   |         |    |    | 5.30    |   |    |
| Ni       |    |    |   |         |    |    | 42.50   |   |    |
| Mo       |    |    |   |         |    |    |         |   |    |
| Co       |    |    |   |         |    |    |         |   |    |
| W        |    |    |   |         |    |    |         |   |    |
| Al       |    |    |   |         |    |    | 0.50    |   |    |
| Cu       |    |    |   |         |    |    |         |   |    |
| Ti       |    |    |   |         |    |    |         |   |    |
| Fe       |    |    |   |         |    |    | 49.00   |   |    |
| C        | Si | Mn | P | S       | Cr | Ni | Mo      | V | Ta |
|          |    |    |   |         |    |    |         |   |    |



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| W | N | Cu | Co | Pb | B | Nb | Al | Ti | Other |
|---|---|----|----|----|---|----|----|----|-------|
|   |   |    |    |    |   |    |    |    |       |

### Ni Span C902 Physical Properties

|                  |         |                          |
|------------------|---------|--------------------------|
| Tensile strength | 115-234 | $\sigma_b$ /MPa          |
| Yield Strength   | 23      | $\sigma_{0.2} \geq$ /MPa |
| Elongation       | 65      | $\delta 5 \geq$ (%)      |
| $\psi$           | -       | $\psi \geq$ (%)          |
| Akv              | -       | $Akv \geq$ /J            |
| HBS              | 123-321 | -                        |
| HRC              | 30      | -                        |

### Ni Span C902 Mechanical Properties

|                  |         |                          |
|------------------|---------|--------------------------|
| Tensile strength | 231-231 | $\sigma_b$ /MPa          |
| Yield Strength   | 154     | $\sigma_{0.2} \geq$ /MPa |
| Elongation       | 56      | $\delta 5 \geq$ (%)      |
| $\psi$           | -       | $\psi \geq$ (%)          |
| Akv              | -       | $Akv \geq$ /J            |
| HBS              | 235-268 | -                        |
| HRC              | 30      | -                        |

### Ni Span C902 Heat Treatment Regime

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

### Ni Span C902 Range of products

|                 |                 |                   |                      |                    |
|-----------------|-----------------|-------------------|----------------------|--------------------|
| Product type    | Products        | Dimension         | Processes            | Deliver Status     |
| Plates / Sheets | Plates / Sheets | 0.08-200mm(T)*W*L | Forging, hot rolling | Annealed, Solution |



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|               |                                                |                               |                                                   |                                                                        |
|---------------|------------------------------------------------|-------------------------------|---------------------------------------------------|------------------------------------------------------------------------|
|               |                                                |                               | and cold rolling                                  | and Aging, Q+T,<br>ACID-WASHED, Shot<br>Blasting                       |
| Steel Bar     | Round Bar, Flat Bar,<br>Square Bar             | Φ8-1200mm*L                   | Forging, hot rolling<br>and cold rolling,<br>Cast | Black, Rough<br>Turning, Shot<br>Blasting,                             |
| Coil / Strip  | Steel Coil /Steel<br>Strip                     | 0.03-16.0x1200mm              | Cold-Rolled & Hot-<br>Rolled                      | Annealed, Solution<br>and Aging, Q+T,<br>ACID-WASHED, Shot<br>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<br>and Aging, Q+T,<br>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'élasticite 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



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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

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We serve you with our honesty, integrity, and professionalism.