

This page is mainly introduced the A 43 Fh 11 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of A 43 Fh 11, 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 A 43 Fh 11

| A 43 Fh 11 Standard Number: |                 |                   |  |
|-----------------------------|-----------------|-------------------|--|
| ITEM                        | Standard Number | Descriptions      |  |
| 1                           | A 43            | Merchant Pig Iron |  |

| A 43 Fh 11 Chemical composition(mass fraction)(wt.%) |         |           |  |
|--|---------|-----------|--|
| Chemical   | Min.(%) | Max.(%)   |  |
| С  |         | 0.40      |  |
| Si   |         | 0.90      |  |
| Mn   |         | 0.30      |  |
| Р  |         |           |  |
| S  |         |           |  |
| Ni   |         |           |  |
| Cr   |         | 5.00      |  |
| Al   |         |           |  |
| Cu   |         |           |  |
| Ti   |         |           |  |
| Fe   |         | remaining |  |
| Мо   |         | 1.30      |  |
| Со   |         |           |  |
| V  |         | 0.50      |  |

| A 43 Fh 11 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      | -           |  |

### A 43 Fh 11 Chemical information, Mechanical properties

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

| A 43 Fh 11 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      | -           |  |

| A 43 Fh 11 Heat Treatment Regime |           |           |             |       |
|----------------------------------|-----------|-----------|-------------|-------|
| Annealing                        | Quenching | Tempering | Normalizing | Q & T |
| √                                | √         | √         | √           | √     |

| A 43 Fh 11 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<br>Aging, Q+T, ACID-<br>WASHED, Shot Blasting |
| Steel Bar                    | Round Bar, Flat Bar,<br>Square Bar          | Ф8-1200mm*L                   | Forging, hot rolling and cold rolling, Cast | Black, Rough Turning,<br>Shot Blasting,                              |
| Coil / Strip                 | Steel Coil /Steel Strip                     | 0.03-16.0x1200mm              | Cold-Rolled & Hot-<br>Rolled                | Annealed, Solution and<br>Aging, Q+T, ACID-<br>WASHED, Shot Blasting |
| Pipes / Tubes                | Seamless Pipes/Tubes,<br>Welded 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 Stainless 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'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



#### A 43 Fh 11 Chemical information, Mechanical properties

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

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

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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