

Chemical Industry Incoloy 800 Wire Nickel Alloy Wire With Preservative

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Basic Information

| Place of Origin: | China |
|--------------------------------------|--|
| Brand Name: | Victory |
| Certification: | CE,ROHS,ISO 9001 |
| Model Number: | Incoloy 800 |
| Minimum Order Quantity: | 5 Kg |
| Price: | Negotiable |
| Packaging Details: | Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case |
| Delivery Time: | 5-21 days |
| • Payment Terms: | L/C, T/T, Western Union, MoneyGram |
| Supply Ability: | 300 tons per month |
| | |

Incoloy 800 Wire

Chemical Industry

7.94 G/cm3

205-240 MPa

520-690 MPa

Decoiling,Cutting,Bending

30%

1,370°C

Ni Cr Fe 30%



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BLX

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Product Specification

• Product Name:

• Material:

- Nickel(Min): • Application: • Density (g/m3):
- Elongation (≥ %):
- Melting Point:
- Yield Strength:
- Tensile Strength:
- Surface:
- Processing Service:
- Highlight:
- Incoloy 800 Nickel Alloy Wire, Incoloy 800 Wire, 8.4g/cm3 Nickel Alloy Wire

Bright Color, Acid White, Oxidized Color



More Images



Introduction:

Incoloy 800 alloy wire is a high-temperature alloy material that is widely used in key equipment and processes in the chemical industry. It is composed of various elements such as nickel, iron and chromium. It has excellent heat resistance, corrosion resistance and high strength, and can work stably under high temperature. corrosive media and high stress conditions.

In the chemical industry, the heat resistance of Incoloy 800 alloy wire is one of its important features. Chemical production processes often involve high-temperature reactions, steam treatment and heating operations, and Incoloy 800 alloy wire can maintain stability in these high-temperature environments and has good high-temperature strength and thermal stability to ensure reliable operation of equipment.

Incoloy 800 alloy wire plays an important role in the chemical industry and is widely used in key components such as chemical production equipment, reactors, heat exchangers and pipelines. Its heat resistance, corrosion resistance and high strength ensure the efficient operation and long-term stability of chemical industry equipment and promote the development and progress of the chemical industry.

Product Parameters:

Main ingredients: nickel (30-35%), iron (39.5% minimum content), chromium (19-23%), copper (0.75% maximum content), aluminum (0.15-0.60%), carbon (0.1% maximum content)

Density: 7.94 g/cm3

Melting point: 1350-1400 degrees Celsius

Yield strength: ≥240 MPa

Tensile strength: ≥600 MPa

Thermal expansion coefficient: 13.9 x 10^-6/degrees Celsius (range 20-100 degrees Celsius)

| Incoloy | Ni | Cr | Fe | С | Mn | S | Si | Cu | Al | Ti |
|---------|-----------|-----------|---------|----------|----------|-----------|---------|----------|-----------|-----------|
| 800 | 30.0-35.0 | 19.0-23.0 | 39.5min | 0.10max. | 1.50max. | 0.015max. | 1.0max. | 0.75max. | 0.15-0.60 | 0.15-0.60 |

| AMS Number | Alloy | Туре | UNS | Cross Ref. Spec | Misc./Shape |
|----------------------|-------------|--------|--------|-----------------|-------------|
| AMS 5766 Bar | Incoloy 800 | Nickel | N08800 | - | Bar |
| AMS 5766 Custom Tube | Incoloy 800 | Nickel | N08800 | - | Custom Tube |
| AMS 5871 Plate | Incoloy 800 | Nickel | N08800 | - | Plate |
| AMS 5871 Sheet | Incoloy 800 | Nickel | N08800 | - | Sheet |
| AMS 5871 Strip | Incoloy 800 | Nickel | N08800 | - | Strip |

VK.



| Shape | Size(mm) |
|---------|-------------------|
| Wire | 0.5-7.5 |
| Rod/Bar | 8.0-200 |
| Strip | (0.5-2.5)*(5-180) |
| Tube | custom made |
| Plate | custom made |

Characteristic:

Corrosion resistance: Incoloy 800 alloy wire shows excellent corrosion resistance in the chemical industry and can resist the erosion of acidic, alkaline and oxidizing media, effectively extending the service life of equipment.

High temperature stability: This alloy wire has excellent high temperature stability and oxidation resistance, and can maintain the stability and strength of its structure in high temperature environments.

Excellent mechanical properties: Incoloy 800 alloy wire has high yield strength and tensile strength, and can withstand the pressure and stress in the chemical industry process.

Advantage:

Corrosion resistance: Incoloy 800 alloy wire has outstanding corrosion resistance in the chemical industry. It can resist a variety of corrosive media, such as acids, alkalis, salts, etc., and is suitable for various corrosive working conditions. High-temperature applications: This alloy wire can maintain stable performance in high-temperature environments and is suitable for processes that require chemical reactions and treatments under high-temperature conditions. Nickel-based alloy: Incoloy 800 alloy wire is a nickel-based alloy with excellent corrosion resistance and high temperature stability. It is a commonly used high-performance material in the chemical industry.

Specific applications:

Chemical reactor: Incoloy 800 alloy wire is often used to manufacture key equipment such as chemical reactors, catalyst devices and reaction pipelines. It can withstand high temperature, high pressure and corrosion from corrosive media. Oil and gas processing: This alloy wire is suitable for corrosive environments in oil refining, natural gas processing and chemical plants, such as cracking furnaces, hydrogenation equipment and distillation towers. Acid-base industry: Incoloy 800 alloy wire is often used in the acid-base industry to manufacture pickling tanks, desulfurizers,

Acid-base industry: Incoloy 800 alloy wire is often used in the acid-base industry to manufacture pickling tanks, desulturizers, alkali storage tanks and other equipment, and can withstand the corrosion of acid-base media.

Related knowledge points:

The application of Incoloy 800 alloy wire in the chemical industry requires the selection of appropriate material specifications and forms based on specific process flows and media.

In order to ensure the safety and reliability of the equipment, when using Incoloy 800 alloy wire, it is necessary to follow the corresponding design and installation specifications, and perform regular maintenance and inspections.

It should be noted that Incoloy 800 alloy wire may be subject to certain corrosion in some strongly oxidizing acid media, so the characteristics of the medium and process conditions need to be considered when selecting materials.

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Q & A:

Q1: What are some common quality tests conducted on Incoloy 800 wire? A1: Common quality tests conducted on Incoloy 800 wire include dimensional inspection, visual inspection, tensile strength testing, hardness testing, chemical composition analysis, and corrosion resistance testing.

Q2: How is the dimensional inspection performed on Incoloy 800 wire? A2: Dimensional inspection of Incoloy 800 wire involves checking the wire's diameter, length, and overall dimensional accuracy. This is typically done using specialized measuring tools such as micrometers or calipers to ensure that the wire meets the specified dimensional requirements.

Q3: How is the corrosion resistance of Incoloy 800 wire assessed?

A3: The corrosion resistance of Incoloy 800 wire is often evaluated through various tests, including salt spray testing, exposure to corrosive environments, and electrochemical testing methods such as potentiodynamic polarization. These tests assess the wire's ability to withstand corrosion and maintain its performance under corrosive conditions.

