



Petrochemical Industry Wire Nickel Alloy Incoloy 800HT Wire With High Temperature Resistance

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Incoloy 800HT
- 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



Product Specification

- Product Name: Incoloy 800HT Wire
- Material: Ni Cr Fe
- Nickel(Min): 30%
- Application: Heater Elements, Pipes And Valves, Reactor Components
- Density (g/m3): 7.94 G/cm³
- Melting Point: 1350-1400°C
- Thermal Conductivity: 11.5 W/(m·K)
- Linear Expansion Coefficient: 14.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$
- Yield Strength: 485 MPa
- Tensile Strength: 590 MPa
- Elongation (\geq %): 30%
- Surface: Bright Color, Acid White, Oxidized Color
- Highlight: **Incoloy Alloy Hard Oxidized, NiFeCr Incoloy Alloy, incoloy 800 wire**



More Images



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Product Description

Introduction:

Incoloy 800HT Wire is an alloy wire composed of nickel, chromium and iron with excellent performance characteristics. Its nickel content is a minimum of 30%, its density is 7.94 g/cm³, and it has a higher melting point range of 1350-1400 degrees Celsius.

Incoloy 800HT Wire has excellent elongation of over 30%, yield strength of 485 MPa and tensile strength of 590 MPa. This allows it to withstand high stresses and pressures while possessing a certain capacity for plastic deformation. The alloy wire also has good corrosion resistance and can resist erosion by corrosive media such as oxidation, sulfidation and carbonization. This allows it to maintain its material integrity and reliability in a variety of environmental conditions.

Incoloy 800HT Wire is a high performance alloy wire suitable for applications such as heating elements, pipes and valves, and reactor components. It has excellent mechanical properties, corrosion resistance and thermal stability, making it an ideal choice for many industrial fields.

Parameter:

Chemical composition:

Nickel (Ni): 30-35%

Iron (Fe): 39.5% (minimum content)

Chromium (Cr): 19-23%

Copper (Cu): 0.75% (maximum content)

Aluminum (Al): 0.15-0.60%

Carbon (C): 0.06-0.10%

Physical properties:

Density: 7.94 g/cm³

Melting point: 1350-1400°C

Thermal conductivity: 11.5 W/(m·K) (room temperature)

Linear expansion coefficient: 14.4 µm/m·°C (room temperature -100°C)

Mechanical behavior:

Yield strength: ≥485 MPa (room temperature)

Tensile strength: ≥590 MPa (room temperature)

Elongation: ≥30% (room temperature)

Incoloy	Ni	Cr	Fe	C	Mn	S	Si	Cu	Al	Ti	p
800HT	30.0-35.0	19.0-23.0	39.5min	0.06-0.1	1.50max	0.015max	1.0max	0.75max	0.15-0.60	0.15-0.60	0.045max

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5766 Bar	Incoloy 800HT	Nickel	N08811	-	Bar
AMS 5766 Custom Tube	Incoloy 800HT	Nickel	N08811	-	Custom Tube
AMS 5871 Plate	Incoloy 800HT	Nickel	N08811	-	Plate
AMS 5871 Sheet	Incoloy 800HT	Nickel	N08811	-	Sheet
AMS 5871 Strip	Incoloy 800HT	Nickel	N08811	-	Strip



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:

Incoloy 800HT alloy wire has the following properties in the petroleum and petrochemical industry:

High temperature resistance: Incoloy 800HT alloy wire can operate stably for a long time in high temperature environments and has excellent high temperature tolerance.

Oxidation resistance: This alloy wire has excellent antioxidant properties and can resist oxidative damage caused by high-temperature oxidation and thermal cycles.

Corrosion resistance: Incoloy 800HT alloy wire shows good corrosion resistance in corrosive environments and can resist the erosion of acidic and alkaline media.

Advantage:

Incoloy 800HT alloy wire has the following advantages in the petroleum and petrochemical industry:

Corrosion resistance: Incoloy 800HT alloy wire has good corrosion resistance to corrosive media and can be used stably for a long time in acidic and alkaline environments, extending the life of the equipment.

Anti-oxidation ability: This alloy wire has excellent antioxidant properties and can resist oxidative damage caused by high-temperature oxidation and thermal cycles, ensuring the stable operation of the equipment.

High temperature stability: Incoloy 800HT alloy wire can maintain stable performance in high temperature environments and is suitable for petroleum and petrochemical industry applications that need to withstand high temperature conditions.

Specific applications:

Specific applications of Incoloy 800HT alloy wire in the petroleum and petrochemical industry include:

Heater elements: Incoloy 800HT alloy wire can be used to manufacture heater elements in the petroleum and petrochemical industry for heating liquids, gases and chemical materials.

Pipes and valves: This alloy wire can be used to manufacture pipes and valves in the petroleum and petrochemical industries for transporting high temperature and corrosive media.

Reactor components: Incoloy 800HT alloy wire can be used to manufacture reactor components in the petroleum and petrochemical industry to withstand chemical reactions in high temperatures and corrosive environments.

Other relevant knowledge points:

In petroleum and petrochemical industry applications using Incoloy 800HT alloy wire, the following matters need to be noted:

Temperature control: Reasonably control and monitor the temperature in high-temperature environments to ensure the safety and stability of equipment and processes.

Corrosion protection: According to the specific corrosion environment, take appropriate corrosion protection measures, such as coating, anti-corrosion layer or alloy selection, to extend the service life of the equipment.

Regular maintenance: Perform regular equipment inspections and maintenance to remove accumulated dirt and corrosion products to ensure normal operation of the equipment.

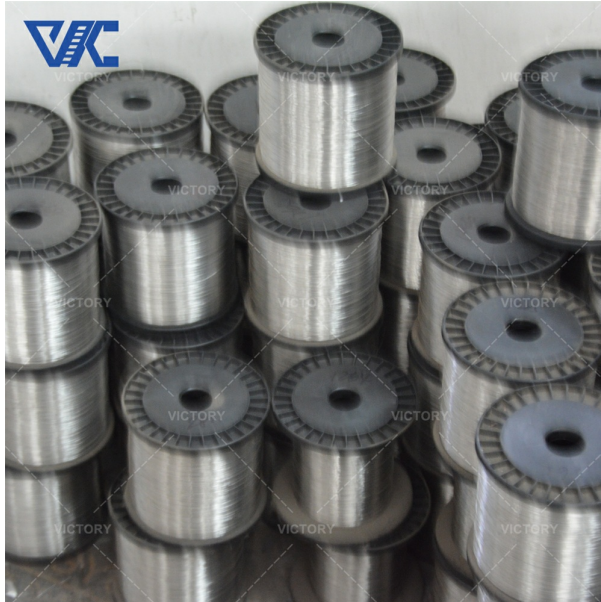
All in all, Incoloy 800HT alloy wire has excellent high temperature resistance, oxidation resistance and corrosion resistance in the petroleum and petrochemical industry. It is widely used in heater elements, pipes and valves, reactor components and other fields, providing reliable performance and long-term stable operation to meet the high material requirements of the petroleum and petrochemical industry. During use, it is necessary to pay attention to requirements such as temperature control, corrosion protection and regular maintenance to ensure the safe operation of the equipment and extend its service life.

contact us
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Oem service:

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Q & A:

Q: How is Incoloy 800HT Wire packaged?

A: Incoloy 800HT Wire is typically packaged on plastic or wooden spools and protected with plastic film or cardboard. It is then placed in boxes or crates for transportation and storage.

Q: Does Incoloy 800HT Wire come with a product guarantee?

A: Yes, Incoloy 800HT Wire typically comes with a product guarantee that ensures its quality and performance as per specified standards.



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