

Thermal Power Plant Nickel Alloy Wire Incoloy 800 Wire With Good Weldability

Basic Information

 Place of Origin: 	China	7
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

Thermal Power Plant

Ni Fe Cr 30%

7.94 G/cm3

VIK.

BLX

之信科技有限公



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Product Specification

- Product Name:
- Material:
- Nickel(Min):
- Application:
- Density (g/m3):
- Melting Point:
- Yield Strength:
- Tensile Strength:
- Elongation (≥ %):
- Surface:

• Highlight:

- Processing Service:
- 1,370°C 205-240 MPa
- 520-690 MPa
 - 30%
- Bright Color, Acid White, Oxidized Color
 - Decoiling, Cutting, Bending
 - Nickel Alloy Incoloy Wire 800, Incoloy 825 Wire



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Introduction:

Incoloy 800 alloy wire is a high-temperature alloy material widely used in thermal power plants. It has the characteristics of heat resistance, corrosion resistance and high strength. It can work stably in high temperature environments, resist corrosion, and withstand high stress conditions, extending the life of equipment and ensuring the normal operation of thermal power plants. The excellent properties of this alloy wire make it an ideal choice for key components and thermal equipment, providing reliable material solutions for thermal power plants and improving system stability and efficiency.

Parameter:

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

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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:

High temperature resistance: Incoloy 800 has excellent high temperature stability and can work at temperatures up to 1100 degrees Celsius for a long time without being easily deformed or melted.

Good oxidation resistance: The alloy contains a high proportion of nickel and chromium, which gives it good oxidation resistance and can resist oxidation, corrosion and sulfurization at high temperatures.

Good mechanical properties: Incoloy 800 has high yield strength and tensile strength, and can maintain the stability and strength of its structure under high temperature and high pressure environments.

Advantage:

High temperature applications: Incoloy 800 is suitable for various applications in high temperature environments, such as slag coils, pipes, furnace heaters, grates, etc., and can withstand high temperatures and thermal stresses.

Corrosion resistance: This alloy has excellent corrosion resistance in acidic, alkaline and chloride environments and is suitable for working conditions with corrosive media.

Excellent processing properties: Incoloy 800 is easy to process and weld, and can be made into parts of various shapes and sizes.

Specific applications:

Thermal power plants: Incoloy 800 is widely used in furnaces, burners, heat exchangers and other components in thermal power plants and can withstand high temperatures and corrosive environments.

Chemical industry: Due to its excellent corrosion resistance, Incoloy 800 is often used in chemical reactors, distillation units, catalyst supports and other equipment.

Oil and gas industry: Incoloy 800 is used to manufacture corrosion-resistant equipment such as pipes, heat exchangers and valves during oil and gas extraction, refining, storage and transportation.

Related knowledge points:

Incoloy 800 alloy can be heat treated to enhance its mechanical properties and creep resistance.

The alloy has good stability at high temperatures and is not prone to intergranular corrosion and stress corrosion cracking. Relevant standards for Incoloy 800 alloy include ASTM B407 (pipe), ASTM B408 (bar) and ASTM B409 (plate).

To sum up, Incoloy 800 alloy wire is a high-quality material used in high-temperature environments such as thermal power plants. It has high temperature stability, oxidation resistance, good mechanical properties and corrosion resistance. In the fields of thermal power plants, chemical industry, and oil and gas industry, Incoloy 800 alloy wire is widely used in furnaces, heat exchangers, pipelines and other equipment. Its properties can be further enhanced by heat treatment. The alloy maintains structural stability at high temperatures and is resistant to intergranular corrosion and stress corrosion cracking.



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