



## Nickel Plate Wire Monel 400 Thermal Spray Wire For Food Processing Industry

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: Monel 400
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

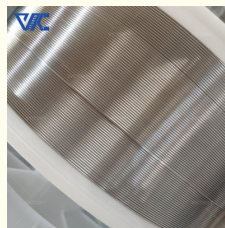
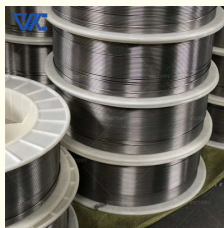


### Product Specification

- Product Name: Thermal Spray Wire
- Grade: Monel 400
- Material: Ni+Cu
- Bonding Strength: 48.26 N/mm<sup>2</sup>
- Deposit Rate: 10 Lbs/hr/100A
- Size: 0.8mm 1.2mm 1.6mm 2.4mm 3.2mm
- Coating Hardness: HRC 30-35
- Density: 8.83 G/cm<sup>3</sup>
- Melting Point: 1300-1350°C
- Application: Corrosion Protection
- Highlight: **Monel 400 Nickel Spray Wire, 0.8mm Nickel Spray Wire, 3.2mm thermal arc spray**



### More Images



### Product Description

#### Introduction:

Monel 400 is a nickel-copper alloy that has excellent corrosion resistance and high strength and is commonly used in the food processing industry. In food processing equipment, Monel 400 thermal spray wire can be used to protect equipment surfaces from corrosion and improve equipment durability and hygiene. Thermal spray coatings of this alloy provide excellent resistance to chemical corrosion, especially to the acidic and alkaline environments common in food processing. In addition, the thermal spray wire of Monel 400 also has good wear resistance and high temperature resistance, which helps to extend the service life of the equipment and ensure food safety.

#### Thermal spray wire

Item	Inconel 625	Ni95Al5	45CT	Monel 400	HC-276	Cr20Ni80
C	≤0.05	≤0.02	0.01-0.1	≤0.04	≤0.02	≤0.08
Mn	≤0.4	≤0.2	≤0.2	2.5-3.5	≤1.0	≤0.06
P	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.02
S	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01
Si	≤0.15	≤0.2	≤0.2	≤0.15	≤0.08	0.75-1.6

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Cr	21.5-23	≤0.2	42-46	-	14.5-16	20-23
Ni	Rest	Rest	Rest	65-67	Rest	Rest
Cu	-	-	-	Rest	-	-
Mo	8.5-10	-	-	-	15-17	-
Ti	≤0.4	0.4-1	0.3-1.0	2.0-3.0	-	-
Al	≤0.4	4-5	-	≤0.5	-	-
Fe	≤1.0	-	≤0.5	≤1.0	4.0-7.0	-
Nb	3.5-4.15	-	-	-	-	≤1.0
Co	-	-	-	-	-	-
V	-	-	-	-	≤0.35	-
W	-	-	-	-	3.0-4.5	-
Impurities	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50

#### Application:

Seawater treatment equipment: Due to its excellent resistance to seawater corrosion, Monel 400 is suitable for seawater exchangers and evaporators.

Pumps and Valves: Monel 400 is commonly used in the manufacture of pump shafts, propellers, valves, etc., especially for fluid transfer in food processing.

Heat exchangers: In food processing, Monel 400 can be used to make heat exchangers that withstand high temperature steam and corrosive liquids.

**Size range Wire: 0.8mm 1.2mm 1.6mm 2.4mm 3.2mm.**

#### Feature:

Corrosion resistance: Monel 400 has high resistance to a variety of corrosive media, including hydrofluoric acid, seawater, steam, salt and corrosive solutions.

Strength and Toughness: Monel 400 maintains high strength and good toughness even at low temperatures.

Processability: Monel 400 can be formed and machined by conventional metalworking techniques.

#### Our Services:

- 1) Free sample could be supplied for testing purpose.
- 2) Customized label, packing, OEM service.
- 3) Mill test certificate will be provided after production.
- 4) Good packing methods to keep goods stable.

#### Q&A:

Q: What parts is Monel 400 mainly used in food processing?

A: Monel 400 is primarily used in pumps, valves, heat exchangers and piping systems in food processing, as these components need to withstand corrosive environments and frequent cleaning processes.

Q: What is the corrosion resistance of Monel 400?

A: Monel 400 has very excellent corrosion resistance, especially in hydrofluoric acid and fluorine gas media, as well as corrosion resistance to hot concentrated alkali liquid.

Q: In the food processing industry, why choose Monel 400 over other materials?

A: Due to its corrosion resistance, strength and resistance to stress corrosion cracking, Monel 400 is ideally suited for components in the food processing industry that need to operate in environments with extremely high hygiene and safety standards.



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