



## Nickel Alloy Wire Monel K500 Thermal Spray Wire Used In Chemical Industry

Our Product Introduction

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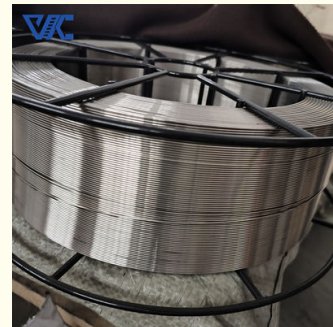
### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: Monel K500
- 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

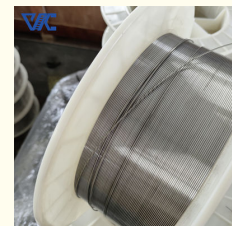


### Product Specification

- Product Name: Thermal Spray Wire
- Grade: Monel K500
- Material: Ni+Cu
- Application: Chemical Industry
- Coating Hardness: 75 – 85 HRB
- Bonding Strength: 27.5 – 34.5 MPa
- Size: 0.8mm 1.2mm 1.6mm 2.4mm 3.2mm
- Maximum Service Temperature: 600 °C
- Density: 8.44 G/cm3
- Melting Point: 1315-1350°C
- Highlight: 70t Thermal Spray Wire, Metallic Alloy Spray Wire, Monel 400 wire arc spray coating



### More Images



### Product Description

#### Introduction:

Monel K500 thermal spray wire is a high-strength, high-hardness corrosion-resistant alloy wire. It is composed of about 65% nickel and about 30% copper, with elements such as aluminum and titanium. Compared with Monel 400, Monel K500 has higher strength and hardness.

Monel K500 thermal spray wire has excellent corrosion resistance and can resist the erosion of seawater, hydrochloric acid, sulfuric acid and other corrosive media. It is widely used in fields such as marine and chemical industries to provide reliable anti-corrosion protection for equipment and components.

In addition, the mechanical properties of Monel K500 thermal spray wire are also excellent. It has high tensile strength and hardness, allowing it to perform well in environments that require high strength and wear resistance. This makes it ideal for applications where high mechanical stress and wear are required.

#### 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
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

#### Feature:

High strength and hardness: Monel K500 alloy has high strength and hardness, and can maintain its mechanical properties under high temperature and high pressure environments.

Corrosion resistance: Monel K500 has excellent corrosion resistance and performs well in both acidic and alkaline environments. It has good resistance to strong acids such as hydrochloric acid, sulfuric acid, and hydrofluoric acid.

Wear resistance: This alloy has good anti-wear properties and can withstand high-speed flow of fluids and erosion of solid particles in the chemical industry.

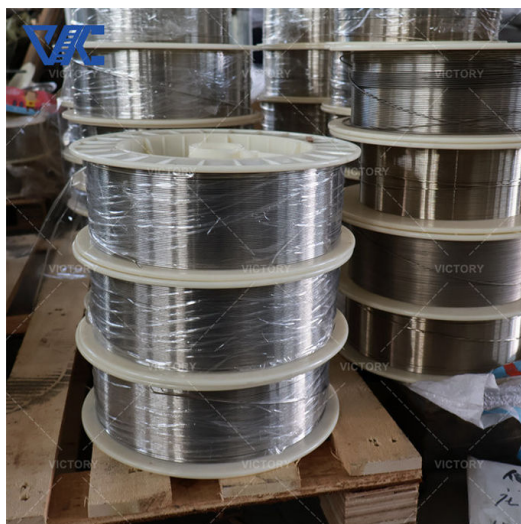
#### Application:

Chemical equipment: Monel K500 thermal spray wire is often used in the manufacture of chemical equipment, such as reactors, distillation towers, heat exchangers, storage tanks, etc. It provides protection against corrosion and wear in chemical media.

Oil and Gas Industry: Monel K500 alloy is widely used in the oil and gas industry. It can be used in oil well equipment, valves, pipelines and pumps to provide reliable performance in harsh working environments.

Chemical treatment: Because Monel K500 has excellent corrosion resistance, it is often used in equipment during chemical treatment, such as pickling equipment, acid storage tanks, etc.

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



#### Package:

Products are generally supplied in standard cardboard boxes, pallets, wooden boxes. Special packaging requirements can also be accommodated. (also depend on the customers' requirements)

For the Thermal spray wires, we wind small size wire less than 1.6mm wires on spools. Bigger size over than 2.4mm in coils. Then put spools into cartons, Then put the cartons onto pallet or wood box.

#### Our Services:

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

#### Q&A:

What are the advantages of Monel K500 thermal spray wire in the chemical industry compared to other spray materials?

Compared with other spray materials, Monel K500 thermal spray wire has high strength, excellent corrosion resistance and wear resistance, and is especially suitable for applications in the chemical industry that require durability and reliability.

What are the specific applications of Monel K500 thermal spray wire in the chemical industry?

Monel K500 thermal spray wire is commonly used in the manufacturing of chemical equipment, such as reactors, distillation towers, heat exchangers, storage tanks, etc. It can also be used in equipment in the oil and gas industry and in chemical processing processes.

How does Monel K500 thermal spray wire cope with corrosion and wear problems in the chemical industry?

Monel K500 thermal spray wire has excellent corrosion resistance and anti-wear properties, which can provide corrosion and anti-wear protection in the chemical industry and extend the service life of equipment.



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