Chemical Industry Monel Alloy 400 Wire With Corrosion Resistance

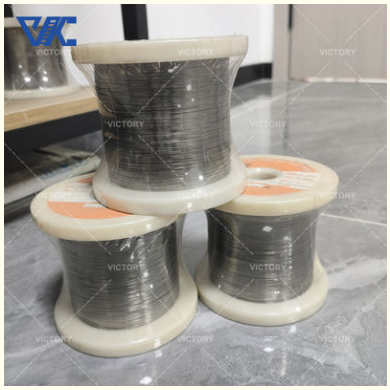
Our Product Introduction

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: Special packaging requirements can also be accommodated. OEM is also acceptable.
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Product Name: Monel 400 Wire
- Material: Nickel Base Alloy
- Nickel(Min): 67%
- Density: 8.83 G/cm3
- Melting Point: 1300-1350°C
- Thermal Conductivity: 21.8 Watts/meter Kelvin
- Linear Expansion Coefficient: 13.0 X 10^-6/degrees Celsius
- Yield Strength: 240 MPa
- Tensile Strength: 520 MPa
- Elongation (≥ %): 40%
- Sureface: Bright,Oxided
- Highlight: **Monel Nickel Alloy Wire**, **Nickel Based Monel Wire**, **Corrosion Resistant Monel Wire**



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Product Description

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Introduction:

Monel 400 wire is a nickel-copper alloy wire widely used in the chemical industry. The alloy has excellent corrosion resistance and can withstand a variety of corrosive media, including acidic, alkaline and oxidizing media. In the chemical industry, highly corrosive chemicals are often encountered, and Monel 400 wire is able to maintain excellent performance and durability in these harsh environments.

Monel 400 wire is widely used in the manufacturing of various equipment and components in the chemical industry, such as pipes, valves, heat exchangers, reactors and storage tanks. Its corrosion resistance allows it to withstand the erosion of strong acids, strong alkali and high temperature environments, thus providing reliable working performance and long service life.

In addition, Monel 400 wire has good mechanical properties, including high strength and excellent creep resistance. This makes it ideal for critical components in the chemical industry that are required to withstand high pressure and temperature conditions.

All in all, Monel 400 wire, as a nickel-copper alloy wire with excellent corrosion resistance, plays an important role in the chemical industry. It can resist the erosion of various corrosive media and has good mechanical properties, providing a reliable and durable solution for the chemical industry.

Parameter:

Product Form	Condition	Tensile (ksi)	.2% Yield (ksi)	Elongation %	Hardness
Rod & Bar	Hot-Finished/Aged	140-190	100-150	30-20	27-38 HRC
Rod & Bar	Hot Finished/Annealed	90-110	40-60	45-25	75-90 HRB
Rod & Bar	Hot Finished/Annealed/Aged	130-165	85-120	35-20	24-35 HRC
Rod & Bar	Cold-Drawn/Aged	135-185	95-160	30-15	25-41 HRC
Rod & Bar	Cold-Drawn/Annealed/Aged	130-190	85-120	30-20	24-35 HRC
Plate	ot-Finished/Aged	140-180	100-135	30-20	27-37 HRC
Sheet	Cold-Rolled/Annealed	90-105	40-65	45-25	85 HRB Max

Item	Ni	Cu	Fe	Mn	C	Si	S
Monel 400	≥63	28-34	≤2.5	≤2	≤0.3	≤0.5	≤0.025

Item	Density	Melting point	Tensile Strength	Yield Strength	Elongation	HB
Monel 400	8.83 g/cm3	1300-1390°C	480	170	35%	≥331

Monel 400	Bar/Rod	Forging	Pipe	Sheet/Strip	Welding Wire
Standard	ASTM B164	ASTM B564	ASTM B165	ASTM B127	ErNiCu-7

Shape	Size(mm)
Wire	0.15-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Plate	custom made

Characteristic:

Corrosion resistance: Monel 400 alloy wire has excellent corrosion resistance and can resist a variety of chemical corrosive media, including hydrochloric acid, sulfuric acid, salt water, organic acids and alkali, etc.

Resistance to stress corrosion cracking: It has good resistance to stress corrosion cracking and can maintain stability under high stress and corrosive media.

High strength: It has high tensile strength and yield strength, and can withstand the requirements of high strength and high

pressure environments.
Good processability: It has good processability and is convenient for various processing and forming operations.

Advantage:

Corrosion resistance: Monel 400 alloy wire shows excellent corrosion resistance in the chemical industry and can resist erosion by a variety of chemical media.
Resistance to stress corrosion cracking: It has good resistance to stress corrosion cracking and is suitable for applications in high stress environments.
High temperature resistance: It has good high temperature stability and is suitable for high temperature processes and equipment.
Good weldability: It has good weldability and is convenient for welding and assembly.

Application:

Chemical reactor: used to manufacture the linings and components of chemical reactors, which can resist corrosion from various chemical media.
Distillation equipment: suitable for equipment such as distillation towers, heat exchangers and steam generators, providing stable performance under high temperatures and corrosive media.
Storage tanks and pipes: used to manufacture chemical storage tanks, pipes and valves, etc., which can resist the erosion of acidic and alkaline media.
Chemical processing equipment: Suitable for a variety of equipment in chemical plants, including pumps, centrifuges, and mixers, providing corrosion resistance and high-strength performance.
Overall, Monel 400 alloy wire is an ideal material choice in the chemical industry to meet the challenges of corrosion and high stress environments in various chemical media. Its corrosion resistance, resistance to stress corrosion cracking and high strength make it an ideal material for critical components such as chemical reactors, distillation equipment, storage tanks and pipes.

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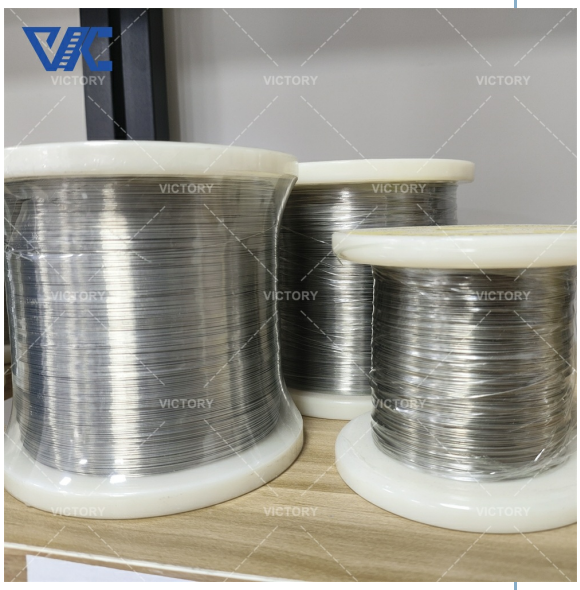

Q&A:

Q: What are the applications of Monel 400 wire?
A: Monel 400 wire finds applications in various industries, including marine environments, offshore oil and gas operations, chemical processing plants, and electrical components manufacturing.

Q: Why is Monel 400 wire preferred in marine applications?
A: Monel 400 wire is preferred in marine applications due to its exceptional corrosion resistance to seawater, making it suitable for marine equipment, shipbuilding, and offshore structures.

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