



Marine Industry Nickel Based Alloy Monel 400 Wire With Corrosion Resistant

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: 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

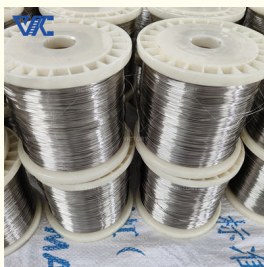


Product Specification

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



More Images



Product Description

Introduction:

Monel 400 wire is a nickel-copper alloy wire with excellent corrosion resistance and mechanical properties that is widely used in the marine industry. Seawater, salt spray and marine organisms in the marine environment are extremely corrosive to metal materials, but Monel 400 wire can effectively resist these corrosive factors. It is widely used in the marine industry to manufacture key components and components such as seawater treatment equipment, seawater pumps, marine vessels and offshore oil extraction equipment. Its excellent corrosion resistance gives it long-term durability and the ability to maintain good performance in harsh marine environments. In addition, Monel 400 wire has good mechanical properties, allowing it to withstand high-strength and high-pressure working conditions. Therefore, Monel 400 filament serves as a reliable material choice, providing a reliable and long-lasting solution for the marine industry.

Parameter:

Diameter range: from 0.03 mm to 12 mm

Standard specifications: ASTM B164

Typical chemical composition: nickel (63% minimum), copper (28-34%), iron (2.5% maximum), manganese (2.0% maximum), carbon (0.3% maximum), etc.

Typical mechanical properties: tensile strength 550 MPa (minimum), yield strength 240 MPa (minimum), elongation at break 40% (minimum)

Ni	Cu	Al	Ti	C	Mn	Fe	S	Si
63.0-70.0	27-33	2.30-3.15	.35-.85	0.25 max	1.5 max	2.0 max	0.01 max	0.50 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/cm ³	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

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 4544 Plate	Monel 400	Nickel Copper	N04400	QQ-N-281	Plate
AMS 4544 Sheet	Monel 400	Nickel Copper	N04400	QQ-N-281	Sheet
AMS 4544 Strip	Monel 400	Nickel Copper	N04400	QQ-N-281	Strip
AMS 4574	Monel 400	Nickel Copper	N04400	-	Tubing
AMS 4675 Bar	Monel 400	Nickel Copper	N04400	ASTM B 164	Bar
AMS 4730	Monel 400	Nickel Copper	N04400	QQ-N-281	Wire
AMS 4731 Ribbon	Monel 400	Nickel Copper	N04400	-	Ribbon
AMS 4731 Wire	Monel 400	Nickel Copper	N04400	-	Wire

Characteristic:

Corrosion resistance: Monel 400 alloy wire has excellent corrosion resistance and shows good corrosion resistance in seawater, salt water, acidic media and alkaline media.

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 is suitable for withstanding 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 exhibits excellent corrosion resistance in marine environments and can resist corrosion and erosion in seawater.

Resistance to stress corrosion cracking: It has good resistance to stress corrosion cracking and is suitable for applications in high stress environments.

High temperature stability: It has good high temperature stability and can maintain stable performance in high temperature environments.

Wear Resistance: Has good wear resistance and is suitable for applications subject to wear and friction.

Application:

Marine engineering: used to manufacture marine platforms, seawater treatment equipment, marine sensors and valves, etc., providing corrosion resistance and high strength performance in seawater environments.

Ship construction: suitable for hull structures, ship equipment and seawater cooling systems, etc., with good corrosion resistance in marine environments.

Ocean Exploration: Used in ocean exploration equipment and submarine pipelines, it can resist corrosion and erosion in seawater.

Chemical industry: suitable for chemical reactors, distillation equipment and storage tanks, etc., providing excellent corrosion resistance in corrosive media.

Overall, Monel 400 alloy wire is an ideal material choice in the marine industry to meet the challenges of seawater corrosion and high stress environments. Its corrosion resistance, resistance to stress corrosion cracking and high strength make it an important material in fields such as marine engineering, shipbuilding and ocean exploration.

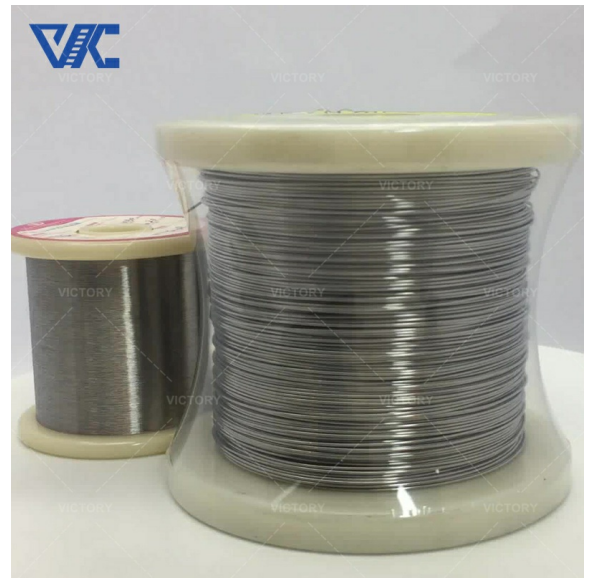
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Q&A:

Q: How is the corrosion resistance of Monel 400 wire tested?

A: The corrosion resistance of Monel 400 wire can be tested through corrosion testing in various corrosive environments and evaluating factors such as corrosion rate, weight loss, and surface changes.

Q: How is the mechanical strength of Monel 400 wire evaluated?

A: The mechanical strength of Monel 400 wire is evaluated through tests such as tensile testing, where the wire is subjected to tension until it breaks, and the maximum load and elongation are measured.



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