



HB 75-90 N04400 Nickel Alloy 400 Strip In Medical Device Field

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: monel 400 strip packed into wooden box, OEM ODM is acceptable
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

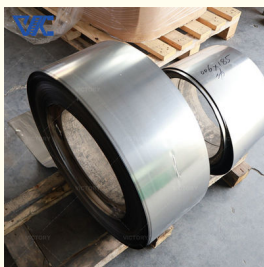


Product Specification

- Product Name: Monel 400 Strip
- Material: Nickle Alloy Material
- Nickel(Min): 63%
- Density: 8.83 G/cm³
- Melting Point: 1300-1350°C
- Elongation (≥ %): 40%
- Surface: Acid White/Bright
- Thermal Conductivity: 22.6 W/(m·K)
- Yield Strength: 240 MPa
- Tensile Strength: 550 MPa
- Hardness: HB 75-90
- Application: Surgical Instruments, Medical Equipment Holders
- Highlight: Medical Device Nickel Alloy 400 Strip, HB 75-90 Nickel Alloy 400 Strip, N04400 Nickel Alloy Strip



More Images



Product Description

Introduction:

Monel 400 tape has a wide range of applications in the medical device field. As a nickel alloy material, it has excellent performance characteristics. The material contains no less than 63% nickel, has a density of 8.83 g/cm³, and a melting point between 1300-1350°C. It has an elongation of 40%, a bright white surface treatment by pickling, and good thermal conductivity and mechanical properties, including a yield strength of 240 MPa, a tensile strength of 550 MPa and a hardness of HB 75-90.

Monel 400 tape has a wide range of applications in the field of medical devices. It has excellent corrosion resistance and can resist the erosion of equipment by various corrosive media, ensuring the hygiene and safety of medical equipment. Its excellent mechanical properties make it suitable for manufacturing a variety of medical devices, such as surgical tools, implantable devices and components of medical equipment. In addition, Monel 400 tape has good thermal conductivity properties, which facilitates heat transfer and control in medical devices and is suitable for applications requiring precise temperature control.

Features:

Biocompatibility: Monel 400 tape has good biocompatibility, will not cause allergic reactions or toxicity, and is suitable for medical devices in contact with the human body.

Corrosion resistance: Monel 400 tape has excellent corrosion resistance and can withstand corrosive media such as acids, alkalis and salts in medical environments.

Strength and Durability: Monel 400 tape has high strength and good durability to withstand the use and load requirements of medical devices.

Parameter:**Chemical Properties of Monel 400**

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	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

Mechanical Properties

Typical Room Temperature Tensile Properties of Annealed Material

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

For more details, pls directly contact us.

contact us

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Specific applications:

Surgical Instruments: Monel 400 strip can be used to manufacture surgical instruments, such as forceps, scissors, and needle tips, with a high degree of precision and corrosion resistance.

Medical device stents: Monel 400 tape can be used to make stents for medical devices, such as implants and orthopedic braces, providing stability and reliability.

Medical Sensors: Monel 400 strip can be used to manufacture electrodes and contact parts of medical sensors for monitoring biological signals and measurement parameters.



Q&A:

What are the main advantages of Monel 400 tape in medical devices?

Key benefits of Monel 400 tape include biocompatibility, corrosion resistance and strength durability, making it a reliable material choice in medical devices.

What are the specific applications of Monel 400 tape in surgical instruments?

Monel 400 strip can be used to manufacture surgical instruments, such as surgical forceps and scissors, with a high degree of precision and corrosion resistance, suitable for surgical and therapeutic procedures.

What is the role of Monel 400 tape in medical device stents?

Monel 400 tape can be used to make scaffolds for medical devices, such as implants and orthopedic stents, providing stability and reliability for supporting and repairing human tissue.



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