



Cold Drawn High Strength NO5500 Nickel Coil Monel K500 Strip For High Temperature Applications

Our Product Introduction

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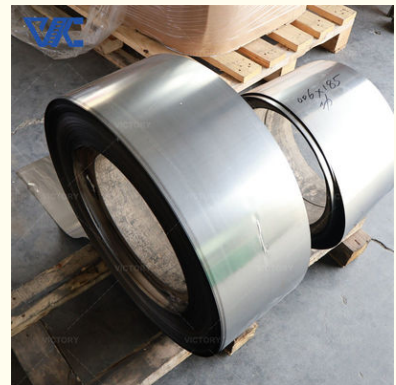
Basic Information

- 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

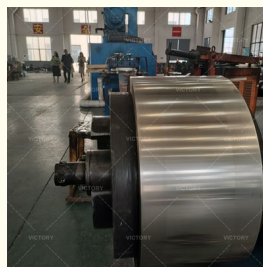


Product Specification

- Product Name: Monel K500 Strip
- Material: Nickel Alloy Material
- Ni (Min): 63%
- Density: 8.44 G/cm³
- Melting Point: 1315-1350°C
- Thermal Conductivity: 17.2 W/(m·K)
- Elongation (≥ %): 20%
- Yield Strength: 345 MPa
- Tensile Strength: 760 MPa
- Hardness: HB 150-250
- Application: High Temperature Stove Parts, Heat Exchangers
- Surface: Bright,Oxided
- Highlight: Cold Drawn Monel K500 Strip,
High Strength Monel K500 Strip,
NO5500 Nickel Coil



More Images



Product Description

Introduction:

Monel K500 strip has a wide range of applications in high temperature applications. As a nickel alloy material, it has excellent performance characteristics. The material contains no less than 63% nickel, has a density of 8.44 g/cm³, and a melting point between 1315-1350°C. It has an elongation of 20% and a thermal conductivity of 17.2 W/(m·K). Monel K500 tape exhibits excellent performance in high temperature environments. It has high yield strength (345 MPa) and tensile strength (760 MPa), as well as appropriate hardness (HB 150-250). This allows it to maintain strength and stability under high temperature conditions, making it suitable for high temperature applications. Monel K500 strip has good corrosion resistance and can withstand corrosive media in high temperature environments, including oxides, acidic and alkaline media. Its surface treatment can be bright or oxidized, depending on specific needs.

Parameter:

Chemical composition:

Nickel (Ni): about 63%
Copper (Cu): about 29.5%
Aluminum (Al): about 2.7%
Titanium (Ti): about 0.6%
Iron (Fe): about 2%
Manganese (Mn): about 1.5%
Silicon (Si): about 0.5%
Carbon (C): up to 0.25%

Physical properties:

Density: about 8.05g/cubic centimeter
Melting point: about 1288-1343 degrees Celsius
Thermal Conductivity: Approximately 17.2 Watts/meter-Kelvin
Linear expansion coefficient: approximately 13.9×10^{-6} degrees Celsius⁻¹ (room temperature to 100 degrees Celsius)

Mechanical behavior:

Yield Strength (Tensile Strength): Minimum approximately 790 MPa (80,000 psi)
Tensile Strength: Minimum approximately 1100 MPa (110,000 psi)
Elongation: minimum value is about 20%

Chemical Properties of Monel K500

Ni	Cu	Al	Ti	C	Mn	Fe	S	Si
63 Max	27-33	2.3-3.15	0.35-0.85	0.25 max	1.5 max	2.0 max	0.01 max	0.50 max

Item	Density	Melting point	Tensile Strength	Yield Strength	Elongation
Monel K500	8.05 g/cm ³	1288-1343°C	1100	790	20%

Monel K500	Bar/Rod	Forging	Pipe	Sheet/Strip	Welding Wire
Standard	ASTM B864	AMS4676	ASTM B865	ASTM B564	ErNiCu-7

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

Advantage:

High temperature stability: Monel K500 strip has good high temperature stability and can maintain its strength and corrosion resistance in high temperature environments.
Anti-oxidation properties: Monel K500 strip has excellent antioxidant properties and can resist oxidation and hot corrosion at high temperatures.
Low Coefficient of Thermal Expansion: Monel K500 strip has a low coefficient of thermal expansion, providing stable size and shape in high temperature applications.

Application:

High-temperature furnace parts: Monel K500 strip can be used to manufacture key components of high-temperature furnaces, such as heating elements, furnace tubes and furnace structures, to provide high temperature resistance and corrosion resistance.

High temperature exhaust pipes: Monel K500 strip can be used in the manufacture of high temperature exhaust pipes, such as gas exhaust pipes, steam exhaust pipes, etc., to ensure stability and durability in high temperature and corrosive environments.

Heat exchangers: Monel K500 strip can be used to manufacture heat transfer tubes and tube bundles for heat exchangers to achieve efficient heat transfer and corrosion resistance under high temperature conditions.

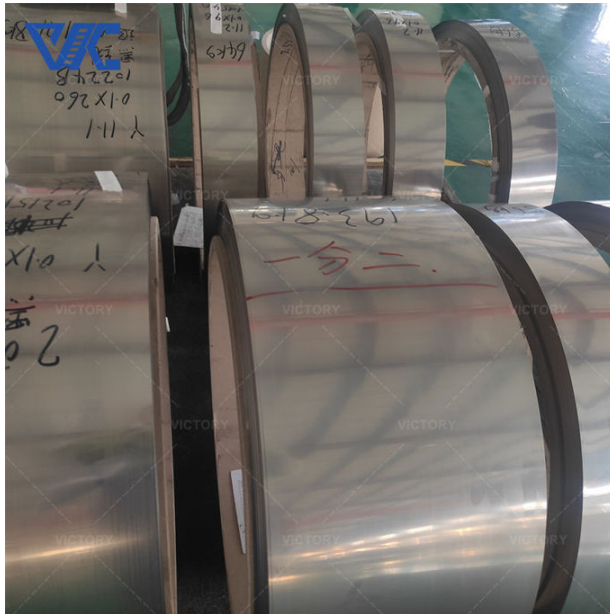
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Oem service:

Welcome customized size

We are experience factory for OEM&ODM service



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