Corrosion Resistance Nickel Based Alloy Monel K500 Strip For Oil And Gas **Industry**

Basic Information

. Place of Origin: China . Brand Name: Victory

CE,ROHS,ISO 9001 Certification:

Monel K500 Model Number: 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: Nickle 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 HB 150-250 · Hardness:

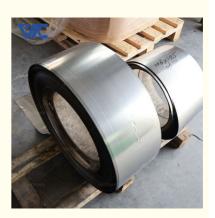
Application: Oil Pipelines, Oil Well Equipment

Surface: Bright,Oxided

• Highlight: Gas Industry Monel K500 Strip,

Corrosion Resistance Monel K500 Strip,

Oil Industry Monel K500 Strip



More Images









Introduction:

Monel K500 Strip is a nickel alloy material with excellent performance characteristics. It contains no less than 63% nickel, has a density of 8.44 g/cm³, and a melting point between 1315-1350°C. The material has an elongation of 20% and a thermal conductivity of 17.2 W/(m·K).

Monel K500 Strip is mainly used in the oil and gas industry, especially for oil and gas pipelines and oil well equipment. It has excellent mechanical properties, including a yield strength of 345 MPa, a tensile strength of 760 MPa and a hardness of HB 150-250. This allows it to withstand the high pressure and high stress environments found in the oil and gas industry, ensuring equipment reliability and durability.

Monel K500 Strip has good corrosion resistance and can withstand corrosive media in oil and gas, including chlorides and sulfides. 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 x 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		С		Mn		Fe		S		Si
63 Max	27-33		2.3-3.15	0.35-0.85		0.25 max		1.5 max	(2.0 ma	ax 0.01 max		nax	0.50 max
Item			Density		Melt	ing poir	nt	Tensile	Stre	ength	Yie	eld Strength		Elongation
Monel K5	00	8.	.05 g/cm3		1288	3-1343°	C	11	00			790 2		20%
Monel K5	00		Bar/Rod		Forg	jing		Pipe She		eet/Strip W		elding Wire		
Standard	d	AS	STM B864		AMS4	4676	A	STM B865		AST	ГМ Е	B564 E		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 strength: Monel K500 strip has excellent strength and hardness, can withstand high stress and extrusion force, and is suitable for harsh industrial environments.

Corrosion resistance: Monel K500 strip has excellent corrosion resistance and can withstand corrosive media in the oil and gas industry, including acids, alkalis and salts.

Wear resistance: Monel K500 strip has good wear resistance and can resist damage to the material by abrasion and abrasive particles.

Oil pipelines: Monel K500 strip can be used to manufacture key components of oil pipelines, such as valves, joints and

connections, etc., with excellent corrosion resistance and wear resistance.

Oil well equipment: Monel K500 tape can be used to manufacture oil well equipment, such as pump components, valves and casing, etc., which can maintain stability and durability in harsh underground environments.

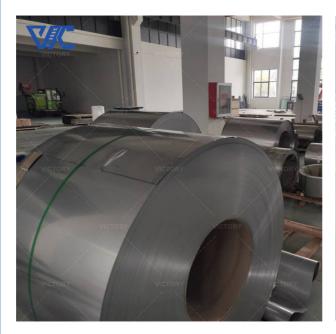
Offshore platforms: Monel K500 strips can be used in the construction and maintenance of offshore platforms, such as anticorrosion coatings and structural supports to cope with the corrosive effects of seawater and sea air.

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