



Hot Rolled Nickel Alloy Inconel X750 Strip For Nuclear Energy Industry

Our Product Introduction

for more products please visit us on victory-alloy.com

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel X750
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptabl
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100 Ton/Tons per Month

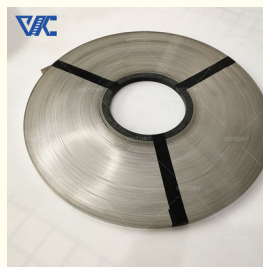


Product Specification

- Product Name: Inconel X750 Strip
- Material: Ni Cr Fe
- Ni (Min): 70-75%
- Density: 8.28g/cm3
- Application: Nuclear Reactor Components, Radiation Protection Materials
- Melting Point: 1393-1427°C
- Tensile Strength: 1034 MPa
- Yield Strength: 827 MPa
- Thermal Expansion Coefficient: 12.6 $\mu\text{m/m}\cdot^\circ\text{C}$
- Highlight: Nickel Alloy Inconel X750 Strip, Hot Rolled Inconel X750 Strip



More Images



Product Description

Introduction:

Inconel X750 tape is a high-performance alloy material widely used in the nuclear energy industry. Composed of elements such as nickel, chromium and iron, it has excellent high temperature resistance, corrosion resistance and mechanical properties.

The tape is suitable for use in various areas of the nuclear energy industry, including nuclear reactor components, nuclear fuel cladding and nuclear waste treatment equipment. Inconel X750 belts can maintain stable performance under high radiation environments, high temperatures and corrosive media, ensuring the safe and reliable operation of nuclear energy equipment.

Inconel X750 tape has excellent material parameters with a density of 8.28g/cm³ and a melting point between 1393°C and 1427°C. It has excellent tensile strength and is able to withstand the high stress and vibration requirements found in the nuclear energy industry. The tensile strength can reach 1034 MPa and the yield strength is 827 MPa, ensuring the reliability and durability of the components under harsh working conditions.

In addition, Inconel X750 belts have good corrosion resistance and can withstand corrosive media in the nuclear energy industry, such as acidic environments and radioactive materials. This makes it an ideal choice for critical components in nuclear energy equipment, ensuring long-term stable operation of the equipment.

Product Features:

High Temperature Strength: Inconel X750 tape has excellent high temperature strength and is able to withstand the high temperatures, pressures and extreme environmental requirements found in the nuclear energy industry.

Anti-radiation performance: It has good anti-radiation performance, which can reduce the impact of radiation on material properties and improve the reliability of nuclear energy equipment.

Corrosion resistance: It has excellent corrosion resistance and can withstand chemical media and corrosive environments in the nuclear energy industry.

Advantage:

High Temperature Durability: Inconel X750 straps are able to maintain stable performance in high temperature environments such as nuclear reactors, providing long-term reliable operation.

Radiation resistance: It can resist radiation damage in the nuclear energy industry, maintain stable material performance, and extend service life.

Corrosion resistance: Inconel X750 tape has good corrosion resistance and can withstand the erosion of chemical media and corrosive environments in the nuclear energy industry.

Specific applications:

Nuclear Reactor Components: Inconel X750 tape can be used for critical components in nuclear reactors such as fuel elements, fuel cladding, control rods and heat exchangers.

Radiation protection materials: Suitable for radiation protection materials in the nuclear energy industry, such as radiation shielding, radiation detectors and nuclear facility seals.

Nuclear waste treatment equipment: Inconel X750 belts can be used in nuclear waste treatment equipment, such as nuclear waste storage containers and treatment devices, to meet the requirements for high temperature, high pressure and corrosion resistance.

Other relevant knowledge:

Composition of Inconel X750 alloy: Inconel X750 alloy is mainly composed of alloy elements such as nickel, chromium, titanium and niobium. The reasonable ratio of these elements gives the alloy excellent high-temperature strength and corrosion resistance.

Heat Treatment and Processing: Inconel X750 tape typically requires heat treatment to improve its mechanical properties and corrosion resistance. In addition, the alloy can be formed and processed through processes such as cold working and welding to meet the needs of the nuclear energy industry.

Safety of the nuclear energy industry: The nuclear energy industry has very strict requirements for materials, which require special properties such as high temperature, high pressure, radiation and corrosion resistance to ensure safe operation of equipment and radiation protection.

Parameter:

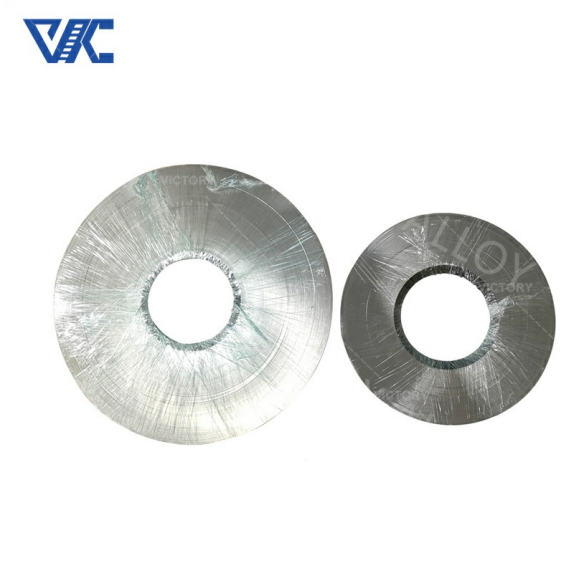
Chemical Properties of Inconel X750

Element	Ni +Co	Cr	Nb	Ti	C	Mn	Si	Cu	Al	S	Iron
Chemical Composition (%)	70% Min	14%-17%	0.7%-1.2%	2.25%-2.75%	0.08% max	1% max	0.5% max	0.30% max	0.4%-1.0%	0.01% max	5%-9%

Type we could offer

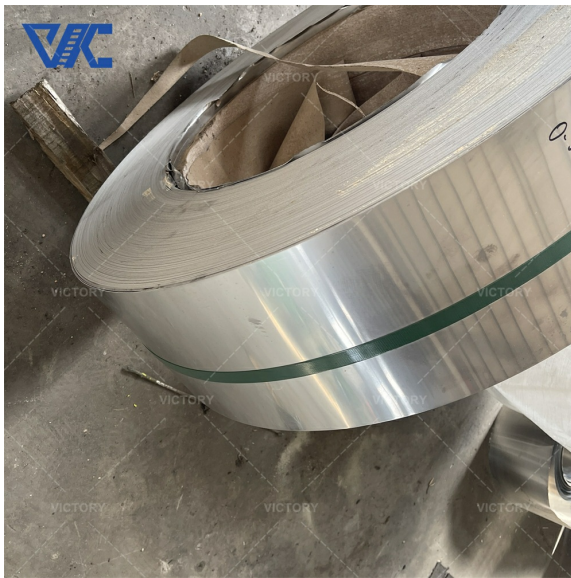
AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5699 wire	Inconel X750	Nickel	N07750		Wire
AMS 5542 Custom Tube	Inconel X750	Nickel	N07750	-	Custom Tube

AMS Number	Alloy	Type	U N S	Cross Ref. Spec	Misc./Shape
AMS 5542 Plate	Inconel X750	Nickel	N 0 7 7 5 0	-	Plate
AMS 5542 Sheet	Inconel X750	Nickel	N 0 7 7 5 0	-	Sheet
AMS 5542 Strip	Inconel X750	Nickel	N 0 7 7 5 0	-	Strip



Shape	Size(mm)
Wire	0.5-7.50
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube/Pipe	Customized
Sheet/Plate	Customized

contact us
email:victory@dlx-alloy.com
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service



Q & A:

Q: Does the company offer expedited shipping options for Inconel X750 strip?

A: Yes, the company provides expedited shipping options to ensure prompt delivery of Inconel X750 strip to meet urgent project timelines.

Q: Can the company assist with material certifications and documentation for Inconel X750 strip?

A: Yes, the company can provide material certifications and documentation, including certificates of compliance and test reports, to meet regulatory and quality requirements for Inconel X750 strip.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu