Nuclear Industry Nickel Alloy Inconel X-750 Wire With Preservative

Our Product Introduction

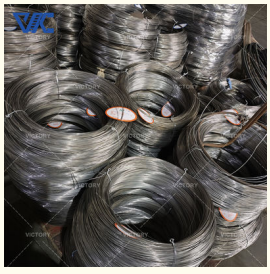
Basic Information

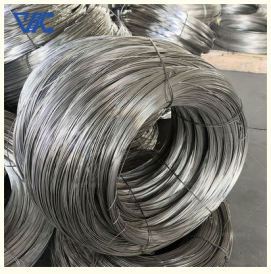
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel X750
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel X750 wire packed in Spool Carton box, Coil package with polybag,then in woodencase
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Product Name: Inconel X750 Wire
- Material: Ni Cr Fe
- Nickel(Min): 70-75%
- Density: 8.28g/cm3
- Application: Nuclear Industry
- Sureface: Bright,Oxided
- Melting Point: 1393-1427°C
- Tensile Strength: 1034 MPa
- Yield Strength: 827 MPa
- Thermal Expansion Coefficient: 12.6 μm/m·°C
- Highlight: **corrosion resistant inconel alloy**, **high temperature resistant inconel alloy**

More Images





Product Description

Our Product Introduction

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Introduction:

Inconel X750 alloy wire has important applications in the nuclear industry. As a high-performance alloy, Inconel X750 has excellent high temperature resistance, corrosion resistance and radiation resistance. It is widely used in nuclear fuel elements, nuclear reactor structural materials and auxiliary systems in nuclear power plants. This alloy wire can withstand extreme conditions in high temperature, high pressure and strong radiation environments while maintaining its mechanical properties and chemical stability, ensuring the safe operation and long-term reliability of nuclear facilities. The application of Inconel X750 alloy wire provides key material solutions for the nuclear industry and meets the stringent requirements for high-performance materials in the nuclear energy field.

Physical property:

Main ingredients: Nickel (Ni), Chromium (Cr), Titanium (Ti)
Chemical composition: Nickel (70-75%), Chromium (14-17%), Titanium (2.25-2.75%), Iron (5-9%), Aluminum (0.7-1.2%)
Density: 8.28 g/cm³
Melting point: 1393-1427°C
Tensile strength: about 1034 MPa
Yield strength: about 827 MPa
Thermal expansion coefficient: 12.6 μm/m·°C (20-100°C)

Parameter:

Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel X750	≤0.08	≤1	5-9	--	≤0.01	≤0.5	≤0.5	≥70	≤1	0.4-1	2.25-2.75	14-17	0.7-1.2	--	--

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 5542 Plate	Inconel X750	Nickel	N07750	-	Plate
AMS 5542 Sheet	Inconel X750	Nickel	N07750	-	Sheet
AMS 5542 Strip	Inconel X750	Nickel	N07750	-	Strip

Size Range (mm)	
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.50-2.5)*(5-180)
Tube	custom made
Plate	custom made

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

Characteristic:

Radiation Resistance: Inconel X750 Wire exhibits good radiation resistance and is able to withstand long-term use in radiation

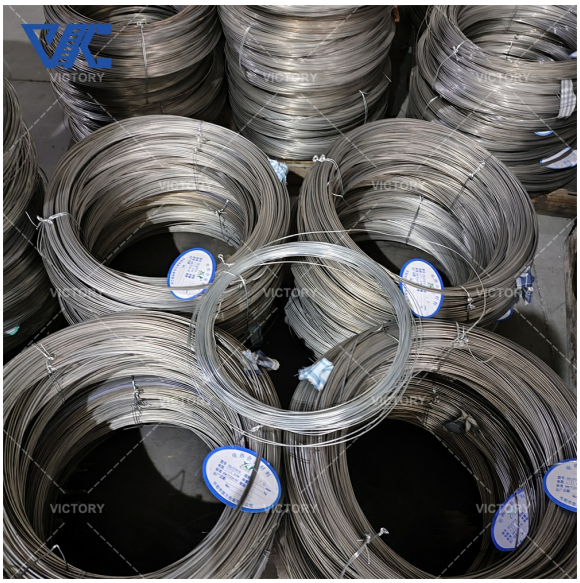
environments in the nuclear industry.
High temperature strength: It has excellent high temperature strength, can maintain mechanical properties in high temperature environments, and adapts to the working conditions of nuclear reactors.
Corrosion resistance: This alloy has good corrosion resistance and can resist the erosion of corrosive media and chemicals in the nuclear industry.
Oxidation Resistance: Inconel X750 Wire resists oxidation at high temperatures, extending the life of your equipment.

Advantage:

Suitable for Nuclear Industry: Inconel X750 Wire has radiation resistance, high temperature strength and corrosion resistance, making it an ideal material in the nuclear industry.
Long-term stability: The alloy can maintain stable performance in a radiation environment for a long time, ensuring the safe operation of nuclear reactors.
Corrosion Resistance: Inconel X750 Wire is resistant to the corrosive media and chemicals found in the nuclear industry, providing reliable durability.
High temperature applications: It can withstand high temperature and high pressure conditions in nuclear reactors and maintain stable mechanical properties.

Application:

Nuclear Reactors: Inconel X750 Wire is commonly used in key components in nuclear reactors, such as reactor pressure vessels, fuel rods, and pipes.
Radiation environment equipment: It is used in the nuclear industry to manufacture equipment and instruments in radiation environments, such as detectors, sensors and valves.
Nuclear fuel processing: Inconel X750 Wire is also used in the manufacture of nuclear fuel processing equipment, such as enrichment units, soakers and filters.
All in all, Inconel X750 Wire has important application value in the nuclear industry. Its radiation resistance, high temperature strength and corrosion resistance make it an ideal material for nuclear reactors and nuclear industry equipment, providing reliability, safety and durability to ensure the operational stability of the nuclear industry.



Q & A:

Q1: How does Inconel X750 wire resist corrosion?
A1: Inconel X750 wire exhibits excellent corrosion resistance due to its high nickel content and the addition of chromium and other alloying elements, making it suitable for applications in corrosive environments.

Q2: In which industries is Inconel X750 wire commonly used for its corrosion resistance?
A2: Inconel X750 wire is commonly used in industries such as aerospace, oil and gas, and chemical processing, where its corrosion resistance is crucial for applications including valves, springs, and components exposed to corrosive fluids and environments.

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