

Nuclear Power Industry 0.03 - 1.00 Mm Width Inconel 600 Strip With Durability

Basic Information

 Place of Origin: 	China	
 Brand Name: 	Victory	
Certification:	CE,ROHS,ISO 9001	
 Model Number: 	Inconel 600	
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	



11.

114

1 1 1 = A 1=0

BLX

之信科技有

Product Specification

Product Name:

Surface:Application:

- • Material:
 Ni Cr Fe

 • Ni (Min):
 72%

 • Density (g/m3):
 8.47 G/c

 • Melting Point:
 1,370-1,

 • Elongation (≥ %):
 30 %

 • Thermal Conductivity:
 15.9 W/r
 - 8.47 G/cm3 1,370-1,410°C 30 % 15.9 W/m·K Bright,Oxided Nuclear Reactors, Nuclear Steam Generators, Nuclear Power Plant Accessories 240 MPa

72% Nickel Alloy Strip,

Inconel 600 Strip Width 1Mm,

550 MPa

≤ 160 HB

Inconel 600 Strip





More Images

Yield Strength:Tensile Strength:

• Hardness:

• Highlight:



Introduction:

Inconel 600 tape is a high-temperature alloy tape widely used in the nuclear power industry. Its main components include nickel, chromium and iron, of which the nickel content is not less than 72%. The tape has a density of 8.47 grams per cubic centimeter and a melting point between 1,370 and 1,410 degrees Celsius. Has an elongation of 30% and a thermal conductivity of 15.9 W/m·Kelvin. The surface can appear bright or oxidized.

Inconel 600 belts are widely used in the nuclear power industry such as nuclear power reactors, nuclear steam generators and nuclear power plant accessories. It has a yield strength of 240 MPa, a tensile strength of 550 MPa and a hardness not exceeding 160 HB. The alloy's key advantages in the nuclear power industry are its high temperature resistance and excellent corrosion resistance. It can withstand the high temperature and corrosive environment in nuclear reactors while maintaining stable mechanical properties and is suitable for key components and equipment in nuclear power plants.

Characteristic:

Radiation Resistance: Inconel 600 tape has good radiation resistance and is able to withstand radiation damage in a nuclear power environment. It maintains stability and mechanical properties under high radiation doses.

Corrosion resistance: This strip has excellent corrosion resistance and can resist the erosion of acidic and alkaline media produced in the nuclear power industry.

High temperature strength: Inconel 600 tape has excellent high temperature strength and heat resistance, and can withstand the high temperature environment and thermal cycle requirements in the nuclear power industry.

Advantage:

Durability: Due to its radiation resistance, corrosion resistance and high temperature strength, Inconel 600 tape is able to operate stably for a long time in the harsh environment of the nuclear power industry, providing long-term durability.

Thermal cycle performance: The strip's high-temperature strength and heat resistance enable it to have good thermal cycle performance and be able to withstand the frequent temperature changes in the nuclear power industry.

Oxidation resistance: Inconel 600 strip has excellent antioxidant properties, which can reduce oxidation losses in high-temperature oxidizing environments and protect the surface of nuclear power equipment from oxidation and corrosion.

Application:

Nuclear reactor components: Inconel 600 tape is commonly used to manufacture nuclear reactor components, such as fuel elements, nuclear fuel cladding, etc. Its radiation resistance, corrosion resistance and high-temperature strength make it a key material in nuclear reactors.

Nuclear steam generator: This strip is widely used in nuclear power steam generators to manufacture heat exchanger tube bundles, steam generator tube bundles and other components. It is resistant to corrosion and oxidation under high temperature and pressure.

Nuclear power plant accessories: Inconel 600 tape is also used to manufacture other accessories in nuclear power plants, such as valves, pipes, pumps, etc., to meet the special needs of nuclear power plant operations.

Other relevant knowledge points:

Inconel 600 is a nickel-chromium alloy with good high-temperature strength, corrosion resistance and radiation resistance. In the nuclear power industry, Inconel 600 strips must comply with relevant nuclear safety standards and specifications to ensure the safety and reliability of the material.

The nuclear power industry is very strict in the selection and design of materials. Factors such as radiation environment, operating temperature, pressure, etc. need to be considered, and strict quality control and testing of materials must be carried out.

Parameter:

Chemical Properties of Inconel 600

Element	Percent
Nickel (plus Cobalt) (Min)	72
Chromium	14-17
Iron	6-10
Carbon (Max)	.15
Manganese (Max)	1
Sulfur (Max)	.015
Silicon (Max)	.5
Copper (Max)	.5

Type we could offer

AMS Number	Alloy	Misc./Shape
AMS 5540	Inconel 600	
AMS 5540 Plate	Inconel 600	Plate
AMS 5540 Sheet	Inconel 600	Sheet

AMS Number	Alloy	Misc./Shape
AMS 5540 Strip	Inconel 600	Strip
AMS 5580 Custom Tube	Inconel 600	Custom Tube
AMS 5580 Tubing	Inconel 600	Tubing
<u>AMS 5665</u> <u>Bar</u>	Inconel 600	Bar
AMS 5665 Custom Tube	Inconel 600	Custom Tube
AMS 5665 Ring	Inconel 600	Ring
AMS 5961	Inconel 600	Wire

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





	Size Range	
Wire	0.05-8.0mm	
Rod/Bar	8.0-200mm	
Strip	(0.05-0.5)*(5-200)mm	
Plate	custom made	
Tube	custom made	





Q&A:

Q1: What are the common quality inspection methods for Inconel 600 Strip? A1: The common quality inspection methods for Inconel 600 Strip include visual inspection, dimensional measurement, hardness testing, and chemical composition analysis.

Q2: How is the quality of Inconel 600 Strip ensured during manufacturing? A2: The quality of Inconel 600 Strip is ensured through strict quality control measures, including regular testing and adherence to quality management systems, during the manufacturing process.

