



## Matte Surface Coil Roll 1mm 2mm 3mm 5mm 10mm Inconel 600 718 X750 625 Spring Wire

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001 ROHS
- Model Number: Inconel 600
- Minimum Order Quantity: 10 Kg
- Price: Negotiable
- Packaging Details: Inconel 600 rod packed in Spool Carton box, Coil package with polybag, then in woodencase
- Delivery Time: 20~40 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Name: High-temperature Nickel Alloy Inconel 600 718 625 Wireused In The Aerospace Industries
- Material: Nickel Chromium Iron
- Ni (Min): 72%
- Density: 8.47 G/cm3
- Melting Point: 1,370-1,425°C
- Elongation (≥ %): 30 %
- Thermal Conductivity: 15.9 W/m-K
- Finishing: Bright,Oxided
- Application: Construction, Industry Oil, Piping Systems
- Yield Strength: 240 MPa
- Tensile Strength: 550 MPa
- Hardness: ≤ 160 HB
- Standard: ASTM, ASME
- Size: 0.50mm



### More Images



### Product Description

#### Comparison between Inconel 600 and Inconel X750 spring wire

##### Chemical Composition:

Inconel 600: Ni 72%, Cr 15.5%, Fe 8%, minor amounts of Cu, Mn, Si, C, etc.

Inconel X750: Ni 70%, Cr 15.5%, Fe 7%, Nb 0.7%, Ti 2.5%

##### Mechanical Properties:

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Inconel 600:  
Tensile Strength: 690-930 MPa  
Yield Strength: 275-480 MPa  
Elongation: 30-50%  
Inconel X750:  
Tensile Strength: 860-1100 MPa  
Yield Strength: 550-760 MPa  
Elongation: 20-35%

#### Applications:

Inconel 600: Mainly used for corrosion-resistant components in the chemical industry, nuclear reactors, aerospace, etc.  
Inconel X750: Mainly used for high-temperature springs, bolts, valves, and other applications requiring high strength and heat resistance.

#### Fabricability:

Inconel 600: Relatively good hot forging and room temperature workability.  
Inconel X750: Poorer hot forging performance, requiring specialized manufacturing processes.

### How many kinds of inconel materials?

#### Inconel 600:

Composition: Ni 72%, Cr 15.5%, Fe 8%, minor amounts of Cu, Mn, Si, C, etc.  
Known for its excellent corrosion resistance and high-temperature strength.

#### Inconel 625:

Composition: Ni 58%, Cr 21.5%, Mo 9%, Fe 5%, Nb 3.6%, other minor elements.  
Offers exceptional resistance to corrosion and oxidation, as well as high strength.

#### Inconel 718:

Composition: Ni 53%, Cr 19%, Fe 18.5%, Nb 5.1%, Mo 3%, Ti 0.9%, Al 0.5%.  
Widely used for its superior strength, corrosion resistance, and weldability.

#### Inconel X-750:

Composition: Ni 70%, Cr 15.5%, Fe 7%, Nb 0.7%, Ti 2.5%.  
Designed for high-strength applications at elevated temperatures.

#### Inconel 601:

Composition: Ni 60.5%, Cr 23%, Fe 14.1%, Al 1.4%.  
Offers excellent oxidation resistance and strength at high temperatures.

### Parameter:

#### Chemical Properties of Inconel 600

C	Cr	Ni+Co	Al	Ti	Fe	Nb+Ta	Mn	Si	P	S
≤0.15	14.0 17.0	≥72	≤0.35	≤0.50	6.0 10.0	≤1.0	≤1.0	≤0.5	≤0.04	≤0.015

ITEM	θ/°C	TENSILE STRENGTH				HBS
		σb/MPa	σP0.2/MPa	δ5/%	φ/%	
BAR/ROD	20	≥585	≥240	≥30	-	134 217
RING	20	≥520	≥205	≥35	-	≥187
HOT ROLL PLATE	20	≥550	≥240	≥35	≥40	-
	900	≥95	≥45	≥40	≥50	-
COLD ROLLED SHEET	20	≥550	≥240	≥30	-	-
	900	≥90	≥40	≥60	-	-
COLD ROLLED SHEET	20	≥550	≥200	≥30	-	-
STRIP	20	≥550	≥240	≥30	-	-
WIRE	20				-	HV≤151

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

### contact us

email:victory@dlx-alloy.com

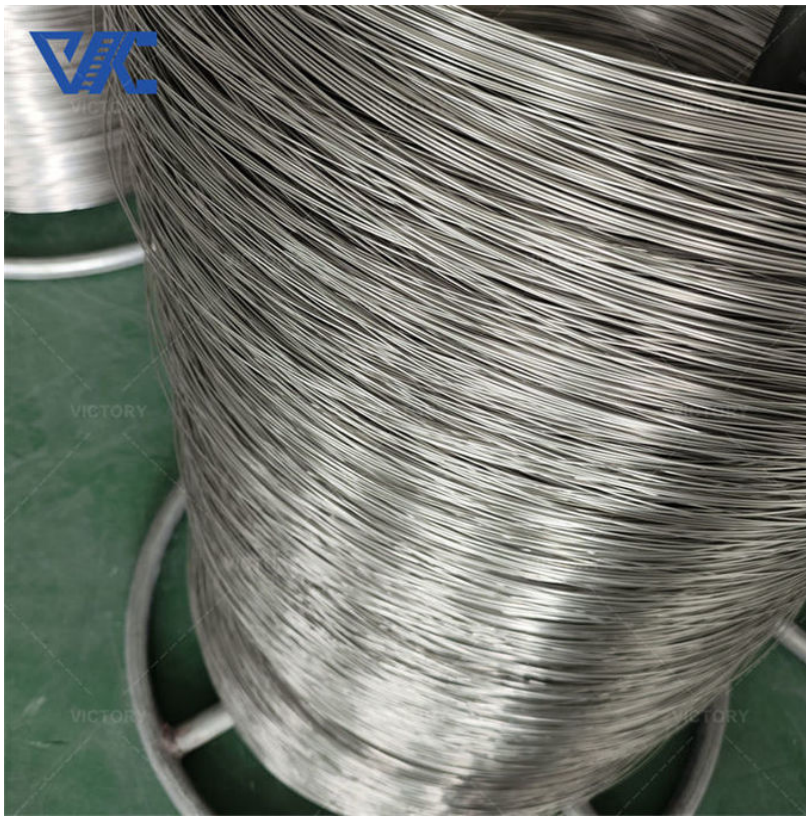
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