## Basic Information

Place of Origin: ChinaBrand 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: Tensile 1300~1500 Mpa Nickel Based Alloy

ASTM B166 Inconel 600 Spring Wire

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: 6~500mm



## More Images



# Product Description

### Inconel 600 wire for spring

Properties of Inconel 600 Relevant for Spring Applications:

High Strength-to-Weight Ratio:

Inconel 600 has a tensile strength of 585-745 MPa, allowing for compact, lightweight spring designs.

The relatively low density of 8.47 g/cm³ helps minimize the weight of Inconel 600 springs.

Our Product Introduction

### Excellent Fatigue Resistance:

The microstructural stability of Inconel 600 gives it outstanding fatigue life, withstanding millions of cycles. This is crucial for springs that undergo repeated flexing and loading.

#### **Corrosion Resistance:**

Inconel 600's high chromium content (14-17%) provides excellent resistance to corrosion and oxidation.

This makes Inconel 600 springs suitable for harsh, corrosive environments.

#### High-Temperature Capability:

Inconel 600 retains its strength and elasticity at temperatures up to 1100°C.

This allows its use in high-heat applications like engine valves and furnace components.

### Recommend other nickel-based alloys that are commonly used for spring manufacturing

#### Inconel 718

Another nickel-chromium superalloy, similar to Inconel 600 but with higher strength.

Commonly used for aerospace engine springs, fasteners, and other high-strength applications.

#### Hastelloy C-276:

A nickel-molybdenum-chromium alloy with excellent corrosion resistance.

Often used for chemical processing equipment springs and other corrosive environment applications.

#### Nimonic 90

Ideal for valve springs and other engine components operating at elevated temperatures.

#### MP35N:

A nickel-cobalt-chromium-molybdenum alloy with extremely high strength and fatigue life.

Commonly used for medical device springs, aerospace, and other highly demanding applications.

### Parameter:

### **Chemical Properties of Inconel 600**

С	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	≤(	).04	≤0.015

	θ/°С					
ITEM		σb/MPa	σP0.2/MP a	δ5/%	φ/%	HBS
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	-	-
OOLD HOLLED SHEET	900	≥90	≥40	≥60	-	-
COLD ROLLED SHEET	20	≥550	≥200	≥30	-	-
STRIP	20	≥550	≥240	≥30	-	-
WIRE	20				-	HV≤151

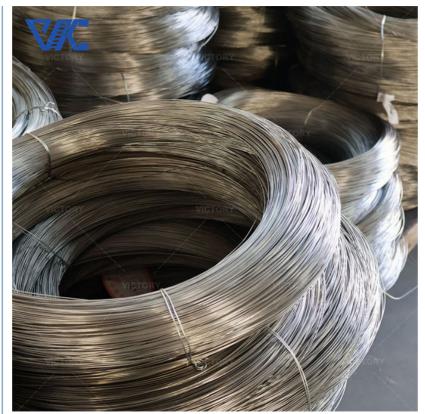
Shape	Size(mm)
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

# contact us email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service









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