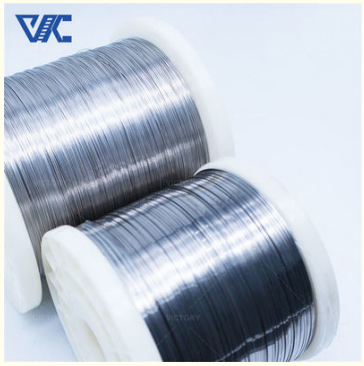
Nickel Chromium Alloy UNS N06600 Inconel 600 Wire Mesh And Used For Spring

Our Product Introduction

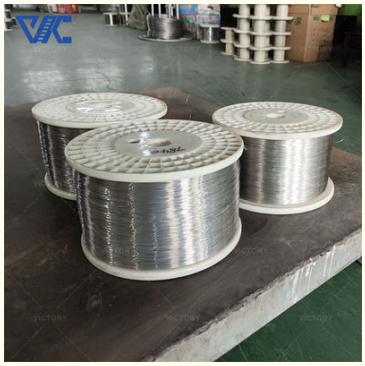
Basic Information

- 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: Nickel-chromium Alloy UNS N06600 Inconel 600 Wire Mesh And Used For Spring
- 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



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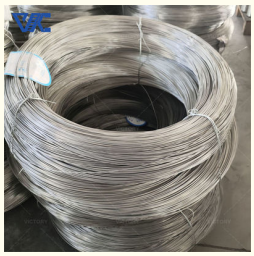
More Images



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Product Description

Inconel 600 wire for mesh

Inconel 600 wire is a nickel-based alloy with excellent corrosion resistance and high-temperature performance. Inconel 600 wire is commonly used for manufacturing meshes or filter screens.

Power plants: Used to make filter screens for high-temperature equipment like steam turbines and boilers.

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Marine industry: Used to make filter screens for seawater desalination units, seawater heat exchangers, etc.

Aerospace: Used to make filter screens for engines, turbochargers, and other components

Inconel 600 wire has outstanding corrosion resistance, high-temperature stability, and good mechanical properties, making it well-suited for manufacturing meshes and filter devices. When selecting Inconel 600 wire, factors like wire diameter, mesh size, and strength need to be considered to meet the specific application requirements.

The advantages of using Inconel 600 wire

Excellent Corrosion Resistance:
Inconel 600 has superior resistance to corrosion, oxidation, and stress corrosion cracking compared to stainless steels and many other alloys.
This makes it well-suited for use in harsh chemical, marine, and high-temperature environments.
High-Temperature Strength:
Inconel 600 maintains its strength and mechanical properties at very high temperatures, up to around 1100°C.
This allows it to be used in a wide range of high-heat industrial applications.
Thermal and Oxidation Resistance:
The alloy has excellent resistance to thermal cycling and oxidation at elevated temperatures.
This helps it withstand the rigors of processes like combustion, heat treatment, and chemical processing.
Workability:
Inconel 600 wire can be easily formed, welded, and fabricated into complex shapes and components.
This makes it a versatile choice for many industrial applications.
Consistent Quality:
Inconel 600 has very consistent metallurgical properties and composition, ensuring reliable performance.
The established manufacturing and quality control processes help ensure consistency.
Availability and Cost:
Inconel 600 is a widely available and relatively cost-effective high-performance alloy wire.

The comparison of mechanical properties between Inconel 600 and Inconel 690

Tensile Strength:
Inconel 600: 585-745 MPa
Inconel 690: 620-825 MPa
Inconel 690 generally has a slightly higher tensile strength compared to Inconel 600, making it better suited for high-stress applications.
Yield Strength:
Inconel 600: 275-450 MPa
Inconel 690: 310-480 MPa
Similar to tensile strength, Inconel 690 has a higher yield strength than Inconel 600, indicating better resistance to permanent deformation.
Elongation:
Inconel 600: 30-45%
Inconel 690: 25-40%
Inconel 600 generally has better ductility and elongation than Inconel 690, allowing for more formability and deformation before failure.
Impact Toughness:
Inconel 600: 100-180 J
Inconel 690: 75-150 J
Inconel 600 has higher impact toughness, especially at lower temperatures, making it more resistant to cracking and fracture.
Hardness:
Inconel 600: 80-95 HRB
Inconel 690: 85-100 HRB
Inconel 690 has a slightly higher hardness than Inconel 600, indicating better wear and abrasion resistance.

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/℃	TENSIE 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)
Wlre	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

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Oem service:
Welcome customized size
We are experience factory for OEM&ODM service

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