

# Automotive Industry Hastelloy X Nickel Alloy Wire With High Temperature Performance

## **Basic Information**

<ul> <li>Place of Origin:</li> </ul>	China	
Brand Name:	Victory	
Certification:	CE,ROHS,ISO 9001	
Model Number:	N	
Minimum Order Quantity:	5 Kg	
Price:	Negotiable	7
<ul> <li>Packaging Details:</li> </ul>	Nickel wire is rolled on white spool or packed with plastic film, in cartoon boxes. Special packaging requirements can also be accommodated. OEM is also acceptable	
Delivery Time:	5-21 days	
<ul> <li>Payment Terms:</li> </ul>	L/C, T/T, Western Union, MoneyGram	
<ul> <li>Supply Ability:</li> </ul>	300 tons per month	



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### **Product Specification**

<ul> <li>Product Name:</li> </ul>	Hastelloy C276 Wire
<ul> <li>Material:</li> </ul>	Ni Cr Mo
• Density:	8.22 G/cm3
<ul> <li>Melting Point:</li> </ul>	1260-1355°C
<ul> <li>Thermal Conductivity:</li> </ul>	9.1 W/m·K
<ul> <li>Yield Strength:</li> </ul>	345 MPa
<ul> <li>Tensile Strength:</li> </ul>	690 MPa Min
<ul> <li>Elongation (≥ %):</li> </ul>	40 %
• Hardness:	≤ 100 HB
Application:	Automotive Engines, Exhaust Systems, Fuel Injection Systems
• Surface:	Bright,Oxided
Highlight:	Hastelloy C276 Nickel Alloy Wire,

Hastelloy C276 Nickel Alloy Wire, Uns N0276 Nickel Alloy Wire



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#### Introduction:

Hastelloy X alloy wire also has certain applications in the automotive industry. Hastelloy X alloy is a high-temperature alloy with excellent high-temperature resistance, oxidation resistance and corrosion resistance, so it is often used in the automotive industry to manufacture high-temperature parts and corrosion-resistant parts.

In the automotive industry, components such as engines and exhaust systems need to be able to withstand harsh environments with high temperatures and corrosion. Hastelloy X alloy wire is widely used due to its excellent high temperature performance and corrosion resistance. It can maintain its strength and stability at high temperatures, and has good resistance to oxidizing and reducing atmospheres and high-temperature corrosive media (such as chlorine, nitric acid, sulfuric acid, etc.).

In the automotive industry, Hastelloy X alloy wire is commonly used to manufacture components such as turbochargers, exhaust valves, combustion chambers and exhaust pipes. It can withstand corrosion and oxidation in high temperature and high pressure environments, ensuring engine reliability and performance.

In summary, Hastelloy X alloy wire is widely used in the automotive industry to manufacture components in high temperature and corrosive environments. It has excellent high temperature performance and corrosion resistance, and can meet the high material requirements of the automotive industry, providing reliable performance and durability.

#### **Characteristic:**

High temperature performance: Hastelloy X alloy wire can maintain stability and strength in high temperature environments and has excellent high temperature durability. It can withstand the effects of high-temperature gas corrosion, oxidation and thermal creep.

Corrosion resistance: Alloy wire has good corrosion resistance to a variety of corrosive media, including strong acids, alkalis, oxidants and salt solutions. It maintains durability in harsh corrosive environments.

High strength and toughness: Hastelloy X alloy wire has excellent strength and toughness, able to withstand stress and deformation in the aerospace industry, maintaining structural integrity and reliability.

#### Advantage:

Lightweight design: Hastelloy X alloy wire has a relatively low density, which enables lightweight design in the aerospace industry, reducing the weight of aircraft and improving fuel efficiency and performance.

High-temperature durability: Alloy wire can still maintain stability and mechanical properties under high-temperature conditions, and can withstand the effects of high-temperature environments in high-temperature engine components, jet propulsion systems, and combustion chambers.

Corrosion resistance: Hastelloy X alloy wire has good corrosion resistance against corrosive media that may be encountered in the aerospace industry, and can provide long-term reliable performance and service life.

### **Application:**

Aero-engine components: Hastelloy X alloy wire can be used to manufacture high-temperature components of aero-engines, such as turbine blades, combustion chambers, nozzles, etc. It maintains stability in high temperature environments, providing reliable performance and durability.

Propulsion system: Alloy wire can be used in key components in aerospace propulsion systems, such as jet thrusters, turbochargers and fuel injection systems. Its high temperature durability and corrosion resistance meet the requirements of propulsion systems.

Structural parts: Hastelloy X alloy wire can be used to manufacture structural parts of aerospace vehicles, such as fuselage shells, navigation system brackets, etc. Its high strength and corrosion resistance meet the structural strength and reliability requirements of the aerospace industry.

#### **Parameter:**

#### Chemical Composition Requirements of Hastelloy X

The	The Chemical Composition of Hastelloy X, %		
Ni	balance		
Cr	20.5-23.0		
Fe	17.0-20.0		
Мо	8.0-10.0		
Со	0.5-2.5		
W	0.20-1.00		
С	0.05-0.15		
Mn	≤1.00		
Si	≤1.00		
Р	≤0.040		
S	≤0.030		

#### **Typical Physical Properties**

Density	Melting Range	Specific Heat	Thermal Conductivity	Electrical Resistivity
g/cm <sup>3</sup>	°C	J/kg.k	W/m.k	μΩ·m
8.22	1260-1355	486	9.1	1180

### Product Forms and Standards

Product Form	Standard
Rod	ASTM B572
Plate, sheet and strip	ASTM B435, B906
Seamless pipe and tube	ASTM B622
Welded pipe	ASTM B619, B775
Welded tube	ASTM B626, B751
Welding fitting	ASTM B366
Billet and bar for reforging	ASTM B472







**C** +8619906119641

Changzhou Victory Technology Co., Ltd

victory@dlx-alloy.com Ovictory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu