



## Excellent Corrosion Resistance Alloy Tool Steel For Power Generation Equipment

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: High Temperature Alloy



### Product Specification

- Thermal Expansion:  $11.2 \times 10^{-6}/K$
- Raw Materials: Ni63%, CR21-25%, Fe10-15%
- Shape: Wire, Strip, Rod, Tube, Plate
- Oxidation Resistance: Excellent
- Item Name: 2205 Stainless Steel Strip
- Creep Resistance: Excellent
- Weldability: Good
- Type: Carbon Steel Bar
- Highlight: **Power Generation Equipment Alloy Tool Steel,  
Excellent Corrosion Resistance Alloy Tool Steel**

## Product Description

### Product Description:

One of the notable characteristics of High Temperature Alloy is its density, which ranges from 8.2 to 9.4 G/cm<sup>3</sup>. This makes it a lightweight material that is easy to handle and transport. It is also highly resistant to thermal expansion, with a coefficient of  $11.2 \times 10^{-6}/K$ , making it ideal for applications that involve extreme temperature changes.

In addition to its mechanical properties, High Temperature Alloy is also known for its excellent oxidation resistance. This means that it can resist the effects of oxidation, even at high temperatures. This makes it a popular choice for applications that involve exposure to high temperatures, such as furnace parts, gas turbines, and heat exchangers.

The technique used to manufacture High Temperature Alloy is Hot Rolled, which involves heating the material to high temperatures and then rolling it into the desired shape. This technique ensures that the material retains its strength and hardness, even after being subjected to high temperatures.

High Temperature Alloy is also annealed, which means that it undergoes a heat treatment process to improve its mechanical properties.

The annealing process involves heating the material to temperatures between 700 and 800N/mm<sup>2</sup>, which helps to increase its strength and hardness. This makes it a durable and long-lasting material that can withstand the rigors of high-temperature applications.

Overall, High Temperature Alloy is a versatile and reliable material that is widely used in various industries. Its exceptional mechanical properties, combined with its excellent resistance to oxidation and thermal expansion, make it an ideal choice for applications that involve exposure to high temperatures. It is one of the most sought-after Corrosion Resistant Alloys on the market today, and it continues to be in high demand due to its superior quality and performance.

### Features:

Product Name: High Temperature Alloy

Grade: Ni Cr Fe Mo Nb

Annealed: 700 – 800N/mm<sup>2</sup>

Creep Resistance: Excellent

Length: As Required

Raw Materials: NI63%,CR21-25%,Fe10-15%

Features: Hard Metal Alloys, Corrosion Resistant Alloys, Alloy Tool Steel

### Technical Parameters:

Item Name	2205 Stainless Steel Strip
Grade	Ni Cr Fe Mo Nb
Raw Materials	NI63%,CR21-25%,Fe10-15%
Shape	Wire, Strip, Rod, Tube, Plate
Length	As Required
Annealed	700 – 800N/mm <sup>2</sup>
Elongation	≥ 30%
Oxidation Resistance	Excellent
Creep Resistance	Excellent
Weldability	Good

### Applications:

The High Temperature Alloy is mainly used for high-temperature applications, such as in the aerospace industry, nuclear energy, and chemical plants. It is also ideal for use in gas turbines, steam turbines, and other high-temperature machinery. Due to its excellent corrosion resistance, it is suitable for use in harsh environments, such as offshore oil rigs and marine systems.

The High Temperature Alloy is available in various lengths, as required by different applications. Its elongation is ≥ 30%, which makes it ideal for applications that require flexibility and ductility. The type of carbon steel bar used in its construction makes it resistant to corrosion, and it can withstand high temperatures without deformation or damage.

One of the scenarios where High Temperature Alloy is commonly used is in the aerospace industry. It is used in the manufacturing of aircraft engines and other high-temperature components. This is because it can withstand high temperatures and maintain its strength, making it ideal for use in harsh environments.

Another scenario where High Temperature Alloy is used is in the nuclear energy industry. It is used in the construction of nuclear reactors and other high-temperature components. Its excellent corrosion resistance makes it ideal for use in nuclear plants, where it can withstand harsh chemicals and high temperatures.

In conclusion, Victory's High Temperature Alloy is a reliable and robust product that is widely used in various industries. Its properties make it ideal for use in high-temperature applications, and its excellent corrosion resistance ensures its longevity in harsh environments.

### Support and Services:

Our High Temperature Alloy product comes with comprehensive technical support and services to ensure that customers get the most out of our product. Our team of experienced engineers and product specialists are available to provide guidance and assistance with product selection, installation, and maintenance. We also offer customized solutions and special orders to meet specific customer needs. In addition, we provide training and education on the proper use and handling of our product to ensure safety and optimal performance. Contact us for more information on our technical support and services.

## Packing and Shipping:

### Product Packaging:

The high temperature alloy product will be packaged securely to prevent any damage during shipping. The product will be placed in a sturdy cardboard box with proper cushioning materials to absorb any shock during transit. The box will be labeled with the product name, quantity, and handling instructions.

### Shipping:

The high temperature alloy product will be shipped via a reliable shipping company to ensure timely and safe delivery. The shipping company will be instructed to handle the package with care and to follow any special instructions regarding the handling of the product. The customer will be provided with a tracking number to monitor the shipment status and expected delivery date.

## FAQ:

Q: What is the brand name of the high temperature alloy?

A: The brand name is Victory.

Q: What is the model number of the high temperature alloy?

A: The model number is High Temperature Alloy.

Q: Where is the high temperature alloy manufactured?

A: It is manufactured in China.

Q: What is the maximum temperature the alloy can withstand?

A: The maximum temperature it can withstand depends on the specific alloy composition and application. Please refer to the product specifications for more information.

Q: What industries is the high temperature alloy commonly used in?

A: The high temperature alloy is commonly used in industries such as aerospace, power generation, and chemical processing.



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