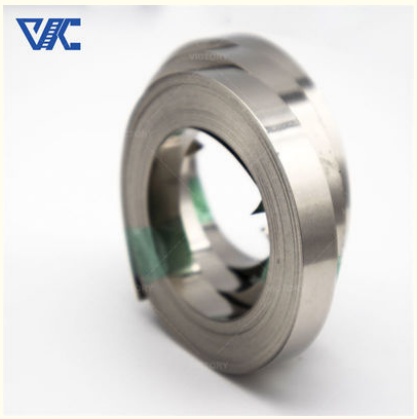
Bright Soft UNS N06625 Nickel Alloy 625 Foil Inconel 625 Flat Strips With Factory Price

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO
- Model Number: Inconel 625
- Minimum Order Quantity: 50 KGS
- Price: 50 - 500 kgs $32-$36
- Packaging Details: Wooden Case
- Delivery Time: 21-45 working days
- Payment Terms: L/C, T/T, Western Union, Paypal
- Supply Ability: 10 Tons Per Month



Product Specification

- Surface: Bright/Acid White
- Density: 8.44 G/cm3
- Tensile Strength: 830 Mpa
- Yield Strength (0.2% Offset): 410 Mpa
- Elongation: 30%
- Melting Range: 1290-1350 °C
- Wall Tolerance: ±3-5%
- Pipe Type: Seamless / ERW / Welded / Fabricated / LSAW Pipe
- Pipe End: Plain End, Beveled End, Treaded
- MOQ: 50KGS
- Delivery Lead Time: 21-40 Working Days
- Highlight: **Bright inconel 625 foil**, **Soft inconel 625 foil**, **inconel 625 foil Factory Price**

More Images

Product Description

Bright Soft UNS N06625 Nickel Alloy 625 Foil Inconel 625 Flat Strips With Factory Price

Inconel alloy is a family of austenitic nickel-chromium-based superalloys known for their exceptional resistance to high temperatures and corrosion. These alloys are primarily composed of nickel, chromium, and iron, with varying amounts of other elements such as molybdenum, niobium, and titanium, which enhance specific properties.

Key Characteristics of Inconel 625 strip:

1. Corrosion Resistance
Excellent Resistance: Inconel 625 exhibits outstanding resistance to various corrosive environments, including pitting, crevice corrosion, and stress corrosion cracking.
Oxidation Resistance: It forms a protective oxide layer when exposed to high temperatures, enhancing its durability.

2. High-Temperature Strength
Thermal Stability: Maintains mechanical strength and structural integrity at elevated temperatures, making it suitable for high-heat applications.
Heat Resistance: Effective in environments exceeding 1000°F (537°C).

3. Mechanical Properties
Tensile Strength: High tensile strength, typically around 827 MPa (120,000 psi).
Yield Strength: Approximately 345 MPa (50,000 psi).
Ductility: Good elongation properties, allowing for deformation without fracture.

4. Weldability
Fabrication: Easily weldable using standard techniques, preserving the alloy's properties post-welding.
Versatility: Can be formed and fabricated into various shapes and sizes.

5. Thermal Conductivity
Moderate Conductivity: Offers decent thermal conductivity, making it suitable for heat exchange applications.

6. Density
Weight: Approximately 8.44 g/cm³ (0.305 lb/in³), which is typical for high-performance alloys.

Main Applications of Inconel 625 strip:

1. Aerospace
Jet Engine Components: Used in combustion chambers, exhaust systems, and turbine blades due to its high-temperature strength and oxidation resistance.

2. Chemical Processing
Heat Exchangers: Employed in systems that handle corrosive fluids and high temperatures.
Reactors and Pressure Vessels: Ideal for environments where resistance to pitting and stress corrosion cracking is critical.

3. Marine Applications
Seawater Equipment: Used in components exposed to seawater, such as pumps, valves, and piping systems, due to its corrosion resistance.

4. Oil and Gas Industry
Downhole Tubing: Suitable for use in harsh environments found in oil extraction and processing.
Offshore Platforms: Components that require durability against corrosive marine conditions.

5. Nuclear Industry
Reactor Components: Utilized in various parts of nuclear reactors, where resistance to radiation and high temperatures is necessary.

6. Power Generation
Gas Turbines: Used in components that operate at high temperatures and need to withstand thermal fatigue.

7. Pharmaceuticals
Processing Equipment: Employed in the manufacture of pharmaceuticals where corrosion resistance and cleanliness are essential.

8. Automotive
Exhaust Systems: Used in high-performance vehicles for exhaust components that require heat and corrosion resistance.

Inconel 625 strip's versatility and ability to withstand extreme conditions make it a preferred choice across these industries.

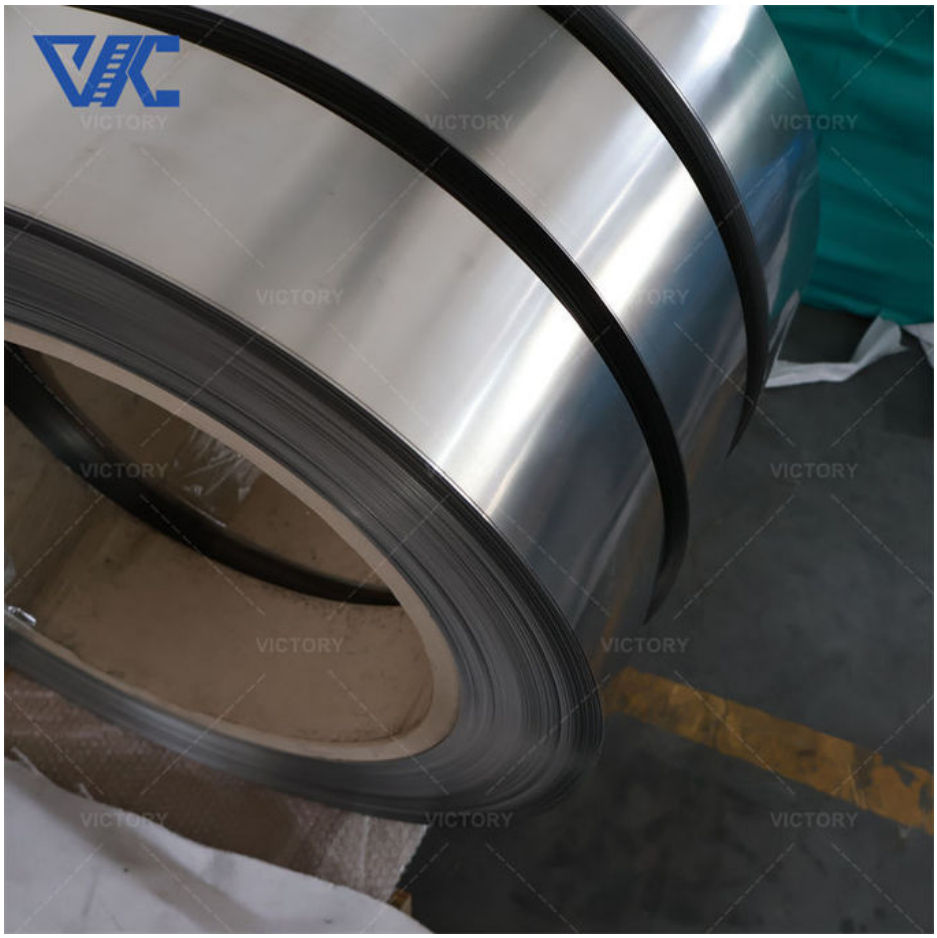
Inconel Alloy Series Composition:

Item	Inconel 600	Inconel 601	Inconel 617	Inconel 625	Inconel 690	Inconel718	Inconel X750	Inconel 825
C	≤0.15	≤0.1	0.05-0.15	≤0.08	≤0.05	≤0.08	≤0.08	≤0.05
Mn	≤1	≤1.5	≤0.5	≤0.35	≤0.5	≤0.35	≤1	≤1
Fe	6-10	rest	≤3	rest	7-11	rest	5-9	≥22

P	≤0.015	≤0.02	≤0.015	--	--	--	--	--
S	≤0.015	≤0.015	≤0.015	≤0.015	≤0.015	≤0.01	≤0.01	≤0.03
Si	≤0.5	≤0.5	≤0.5	≤0.35	≤0.5	≤0.35	≤0.5	≤0.5
Cu	≤0.5	≤1	--	≤0.3	≤0.5	≤0.3	≤0.5	1.5-3
Ni	≥7.2	58-63	≥44.5	50-55	≥58	50-55	≥70	38-46
Co	--	--	10-15	≤10	--	≤1	≤1	--
Al	--	1-1.7	0.8-1.5	≤0.8	--	0.2-0.8	0.4-1	≤0.2
Ti	--	--	≤0.6	≤1.15	--	≤1.15	2.25-2.75	0.6-1.2
Cr	14-17	21-25	20-24	17-21	27-31	17-21	14-17	19.5-23.5
Nb+Ta	--	--	--	4.75-5.5	--	4.75-5.5	0.7-1.2	--
Mo	--	--	8-10	2.8-3.3	--	2.8-3.3	--	2.5-3.5
B	--	--	≤0.006	--	--	--	--	--

Inconel 625 Alloy Parameter:

Density(g/cm3)	Melting Point (℃)
8.44	1320-1370 °C



Changzhou Victory Technology Co., Ltd

+8619906119641 victory@dlx-alloy.com victory-alloy.com

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