

## Alloy B-2, UNS N10665, Nickel Alloy Steel Pipe/Tube

Our Product Introduction

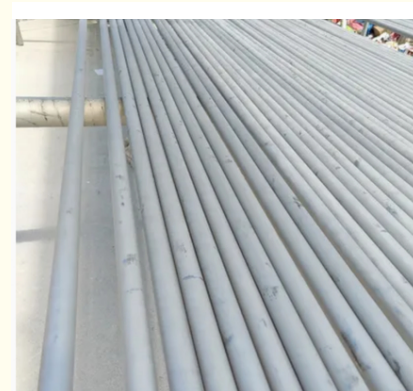
for more products please visit us on [flangespipefittings.com](http://flangespipefittings.com)

### Basic Information

- Place of Origin: China
- Brand Name: KASUGAI
- Certification: ASTM B622/ASTM B619/ASTM B626/ASTM B366
- Model Number: Alloy B-2, UNS N10665
- Minimum Order Quantity: 5 tons
- Price: USD
- Packaging Details: Seaworthy Packing
- Delivery Time: 45 55days depends on quantity
- Payment Terms: L/C,T/T,D/P
- Supply Ability: 300 t per month



### Product Specification



### More Images



## Product Description

**Alloy B-2 (UNS N10665)** is a nickel-molybdenum alloy widely recognized for its outstanding resistance to reducing environments, such as hydrochloric acid, hydrogen chloride gas, sulfuric acid, and phosphoric acid. When manufactured into **Nickel Alloy Steel Pipes and Tubes**, Alloy B-2 provides excellent mechanical strength, corrosion resistance, and reliability in demanding chemical process applications.

### Product Features

- 1.Superior Corrosion Resistance:** Excellent performance against hydrochloric acid across the full concentration and temperature range.
- 2.High Purity Composition:** Low iron and carbon minimize carbide precipitation and maintain corrosion resistance after welding.
- 3.Good Fabricability:** Alloy B-2 pipes and tubes can be formed and welded using standard methods, making them suitable for complex engineering projects.
- 4.Thermal Stability:** Maintains strength and toughness even at elevated temperatures.
- 5.Versatility:** Ideal for heat exchangers, piping systems, pressure vessels, and evaporators in harsh chemical environments.

### Advantages of Alloy B-2 (UNS N10665) Steel Pipe

- 1.Long service life due to resistance to uniform and localized corrosion.**
- 2.Reduced maintenance costs compared to conventional stainless steels.**
- 3.Reliable performance in industries where process purity and safety are critical.**
- 4.Adaptable for both seamless and welded pipe/tube production.**
- 5.Global availability in customized sizes and wall thicknesses.**

### Technical Specifications

#### 1. Chemical Composition Requirements

Ni	Cr	Mo	Fe	C	Si	Co	Mn	P	S
Remainder	≤1.0	26.0~30.0	≤2.0	≤0.02	≤0.10	≤1.0	≤1.0	≤0.04	≤0.03

#### 2. Mechanical Properties of ASTM B622 UNS N10665

Tensile Strength, min.		Yield Strength, min.		Elongation
ksi	MPa	ksi	MPa	min. %
110	760	51	350	40

### Hastelloy B2 vs B3

Hastelloy b2	Hastelloy b3
High resistance to medium-concentrated sulphuric acid and a variety of non-oxidizing acids	Outstanding resistance to knife-line and heat-affected zone attacks

The majority of alloy B2 is utilised in equipment for gas processing, specialty chemicals, pharmaceuticals, chemicals, and seawater applications.	It is utilized in petrochemicals, power generation, off-shore oil drilling, heat exchangers, condensers, and the pulp and paper industries
Significant corrosion resistance in a reducing environment	Outstanding resistance to pitting and stress corrosion cracking
Excellent resistance to a wide variety of organic acids	Hydrochloric acid resistance at all concentration levels

## Frequently Asked Questions (FAQ)

### Q1: What is Alloy B-2 (UNS N10665)?

A: Alloy B-2 is a nickel-molybdenum alloy known for superior resistance to reducing environments, especially hydrochloric acid.

### Q2: What industries commonly use Alloy B-2 pipes and tubes?

A: They are widely used in chemical, petrochemical, pharmaceutical, and pollution control industries.

### Q3: Can Alloy B-2 be welded easily?

A: Yes, it has good weldability, but care must be taken to avoid heat-affected zone corrosion. Proper post-weld cleaning is recommended.

### Q4: What standards apply to Alloy B-2 pipes and tubes?

A: The common standards are ASTM B619, ASTM B622, and ASTM B626.

### Q5: Why choose Alloy B-2 over stainless steel?

A: While stainless steels may fail in aggressive hydrochloric acid environments, Alloy B-2 maintains resistance, reducing downtime and repair costs.

**Kasugai Group manufacture pipe fittings, steel pipes and flanges products more than 100 years. If you want to know more about our piping products, please email us: [zhangying@kasugai-group.co.jp](mailto:zhangying@kasugai-group.co.jp)**



+8109093329324
 [zhangying@kasugai-group.co.jp](mailto:zhangying@kasugai-group.co.jp)
[flangespipefittings.com](http://flangespipefittings.com)

Rm.8415, Bldg. A8, No. 808 Hongqiao Road, Xuhui District, Shanghai 200030, China