



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd  
stainless-steelseamlesspipe.com



## ASTM 450 Stainless Steel Seamless Tube Super Duplex 2205 With Colded Rolled

Our Product Introduction

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### Basic Information

- Place of Origin: Wenzhou,China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: tubing
- Minimum Order Quantity: 1 Ton
- Packaging Details: In wooded cases or pallets,or as for clients requirement
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 5000 Ton/Tons per Month



### Product Specification

- Keywords: Duplex Seamless Tube
- Application: Construction/Indutry/Building/Chemical
- Section Shape: Round
- Tolerance:  $\pm 1\%$
- Shape: Round/Square/Rectangle
- Technique: Hot Rolling&cold Drawn
- OD: 1/8"-24"
- WT: SCH5-XXS
- Alloy Or Not: Non-Alloy
- Highlight: **Super duplex stainless steel seamless tube, ASTM 300series stainless steel tube, Duplex 2205 stainless steel tube**



### Overview

2205 duplex stainless steel is composed of 22% chromium, 3% molybdenum and 5-6% nickel nitrogen duplex stainless steel. It has high strength, good impact toughness and good overall and local resistance to stress corrosion. Compared with 316L and 317L austenitic stainless steel, 2205 alloy in the resistance to point corrosion and gap corrosion performance is better, it has a high corrosion resistance, compared with austenite, its coefficient of thermal expansion is lower, higher thermal conductivity. The yield strength of 2205 is twice that of austenitic stainless steel, which allows designers to reduce weight when designing products, giving this alloy a price advantage over 316, 317L. This alloy is particularly suitable for the -50°F/+600°F temperature range. At the same time, it has also become an important engineering material, which is widely used in petrochemical industry, offshore and coastal facilities, oilfield equipment, paper making, shipbuilding environmental protection and other fields.

### UNS S32205 stainless steel pipe advantages

1. Good weldability.
2. Excellent low temperature toughness.
3. Good corrosion resistance.
4. Excellent mechanical properties.
5. Good heat treatment specifications.
6. High wear resistance and fatigue strength.
7. Low notch sensitivity and tendency to temper brittleness.
8. High polishing properties and surface gloss.
9. Excellent welding performance.

### Corrosion Resistance

Due to its high chromium, molybdenum, and nitrogen content, Duplex 2205 demonstrates superior corrosion resistant properties to 316 and 316L in most environments.

Chromium, molybdenum, and nitrogen content also provide high resistance to pitting and crevice corrosion, even in oxidizing and acidic solutions

Resistant to chloride stress corrosion cracking and temperatures of up to about 302°F (150°C).

The presence of ferrite provides for good performance of Duplex 2205 in caustic environments.

### Heat resistance

Similar to other duplex stainless steels, Duplex 2205 has good oxidation resistance at high temperatures

Subject to embrittlement when exposed to temperatures above 572°F (300°C) even when exposed for short periods of time;

Duplex 2205 is therefore not recommended for use above 572°F (300°C)

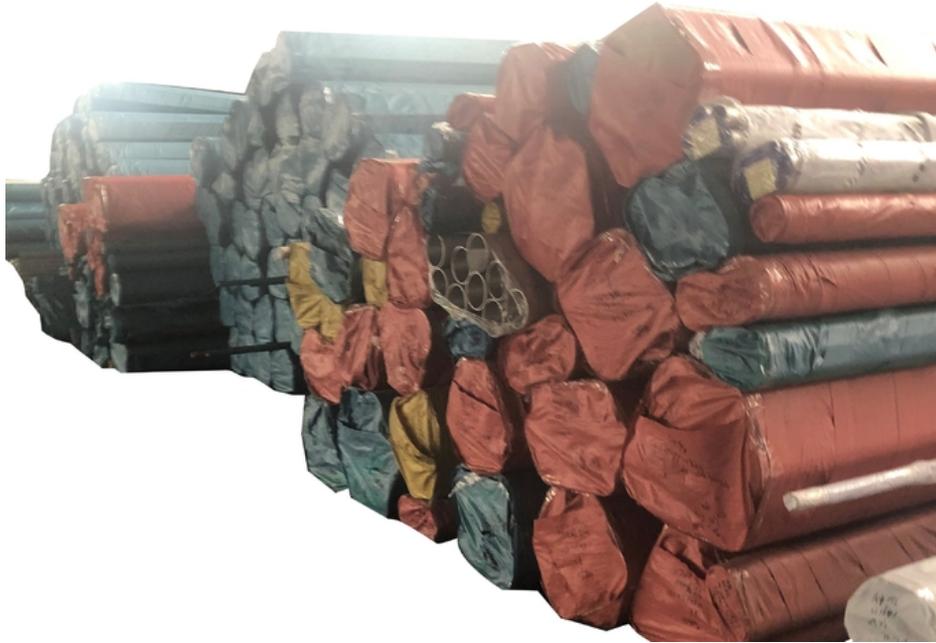
### 2205 stainless steel pipe Usage

- (1) Pressure vessels, high-pressure storage tanks, high-pressure pipelines, heat exchangers (chemical processing industry).
- (2) Oil and gas pipelines, heat exchangers pipe fittings.
- (3) Sewage treatment system.
- (4) Pulp and paper industry classifiers, bleaching equipment, storage and treatment systems.
- (5) Rotary shaft, press roller, blade, impeller, etc., in high-strength corrosion-resistant environment.
- (6) Cargo boxes for ships or trucks.  
Food processing equipment.

### Chemical Composition Of 2205 Duplex Steel

Grade	C	Si	Mn	P	S	Ni	Cr	Mo	N
2205	0.03%	1.00%	2.00%	0.030%	0.020%	4.5 6.5%	22.00 23.00%	3.00 3.50%	0.14 0.20%

### Image



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