



## ASTM A333 Gr. 3 Gr. 6 Low Temperature Seamless Carbon Steel Tube OD 13.7mm-609.6mm

Our Product Introduction

### Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: Carbon Seamless Steel Pipe
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Standard Export Packing
- Delivery Time: 7~30 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union



### Product Specification

- Name: Low Temperature Seamless Steel Pipe
- Technique: Hot-Rolled
- Standards: ASTM/ASME/DIN/En
- Material: Carbon Steel
- Wall Thickness: 1-20mm (0.04 Inch - 0.78 Inch)
- Outer Diameter: 13.7mm-609.6mm
- Processing Service: Bending, Punching, Cutting
- Usage: Pipeline Transport, Boiler Pipe, Hydraulic/Automobile Pipe, Oil/Gas Drilling
- Highlight: **astm seamless steel tube ,  
astm seamless carbon steel tube ,  
a333 seamless steel tube**



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## Product Description

### ASTM A333 Grade 6 Low-Temperature Carbon Steel Seamless Pipes

Low-temperature carbon steel seamless pipes are engineered to withstand extreme cold environments while maintaining their structural integrity and performance. ASTM A333 Grade 6, a specific standard for these pipes, ensures that they meet the required specifications for various industrial applications.

#### 1. Definition:

Low-temperature carbon steel seamless pipes are cylindrical tubes made from carbon steel that are manufactured without any seams. They are designed to operate in low-temperature conditions, typically below  $-45^{\circ}\text{C}$  ( $-49^{\circ}\text{F}$ ), without compromising their structural strength.

#### 2. Advantages:

**High Strength and Durability:** These pipes are made to resist high pressure and maintain their shape under extreme cold.

**Seamless Construction:** The seamless design eliminates the weak points associated with welded seams, enhancing overall pipe integrity.

**Corrosion Resistance:** ASTM A333 Grade 6 pipes are often treated to resist corrosion, ensuring longevity in challenging environments.

**Uniform Quality:** The manufacturing process ensures consistent quality throughout the length of each pipe.

**Customizability:** Available in various sizes and lengths to suit specific project requirements.

#### 3. Product Parameters:

Parameter	Description
Standard	ASTM A333 Grade 6
Material	Low-Temperature Carbon Steel
Size Range	Typically from 1/8" to 24" in diameter
Wall Thickness	Varies based on diameter and pressure rating
Length	Customizable, commonly available in standard lengths
Temperature Range	Designed for service at temperatures down to $-45^{\circ}\text{C}$ ( $-49^{\circ}\text{F}$ )

#### 4. Applications:

**Oil and Gas Industry:** Used for transporting fluids in pipelines operating in arctic conditions.

**Chemical Processing:** Ideal for handling chemicals that require low-temperature storage and transport.

**Refrigeration Systems:** Employed in systems where low temperatures are essential for preservation.

**Construction:** Utilized in structural applications that demand high strength at low temperatures.

#### 5. Mechanical Properties:

Property	Requirement
Tensile Strength	$\geq 415$ MPa (60,000 psi)
Yield Strength	$\geq 240$ MPa (35,000 psi)
Elongation	$\geq 20\%$ in 50 mm (2 in) for pipes $\leq 76$ mm (3 in) in diameter
Reduction of Area	$\geq 50\%$

#### 6. Chemical Composition:

Element	Typical Range (%)
Carbon	0.15 - 0.30
Manganese	0.40 - 0.60
Phosphorus	$\leq 0.035$
Sulfur	$\leq 0.035$
Silicon	$\leq 0.40$

**Conclusion:** ASTM A333 Grade 6 low-temperature carbon steel seamless pipes are engineered to provide exceptional performance in demanding environments. Their seamless construction, coupled with their mechanical and chemical properties, makes them a preferred choice for industries requiring reliable and robust piping solutions.

#### Product Image



Company Profile

BAOYANG · CHINA  
**COMPANY INFORMATION**



 Cangzhou BaoYang Pipe Industry Co., Ltd

Cangzhou Baoyang Pipe Industry Co., Ltd. is located in the Hope New Area of Mengcun County, Hebei Province, China's pipeline equipment base. It is an enterprise that integrates spot storage of steel pipes, production of pipe fittings, and sales and exports. Our company mainly operates seamless pipes made of special materials, and has long-term good cooperative relationships with major steel mills such as Tianjin Seamless, Hengyang Hualing, Yantai Lubao, Inner Mongolia Baosteel, Shanghai Baosteel, Jiangsu Chengde, Anhui Tianda, etc. Our products are widely used in pipeline engineering fields such as petroleum, petrochemical, chemical, natural gas, thermal power, boilers, etc

**Factory Tour**

## Factory Picture

Cangzhou Baoyang Pipeline Co., Ltd



team introduction

## OUR FRIENDS



Applications

## BAOYANG · CHINA APPLICATION SCENARIOS



Cangzhou Baoyang Pipeline Equipment Co., Ltd.

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