



## American Standard API 5L ASTM A106 Seamless Carbon Steel Pipe Sch 40 42CrMo

### Our Product Introduction

#### Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: API 5L ASTM A106 Sch40 42CrMo
- 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: American Standard Steel Pipes
- Process: Hot Rolled Cold Rolled Cold Drawn
- Standards: ASTM/ASME/DIN/En
- Material: API 5L ASTM A106 Sch40 42CrMo
- Wall Thickness: 1-20mm (0.04 Inch - 0.78 Inch)
- Outer Diameter: 6-2500mm
- Processing Service: Bending, Punching, Cutting
- Usage: Pipeline Transport, Oil/Gas Drilling, Machinery Industry
- Highlight: **seamless carbon steel pipe sch 40 42crmo ,  
astm a106 seamless carbon steel pipe sch 40 ,  
astm carbon steel seamless steel pipe**



## Product Description

### American Standard Seamless Carbon Steel Pipe Tube API 5L ASTM A106 Sch40 and 42CrMo

**1. Product Description:** American Standard Seamless Carbon Steel Pipe Tubes API 5L ASTM A106 Grade B are designed for line pipe applications in the oil and gas industry. These pipes are manufactured to meet the stringent requirements of both API (American Petroleum Institute) 5L and ASTM A106 standards, ensuring high-quality steel with specific mechanical properties suitable for high-pressure service. The 42CrMo alloy steel, known for its high strength and toughness, is also mentioned as a material that can be used for similar applications, although it is not directly specified in ASTM A106.

#### 2. Product Parameters:

Parameter	Description
Grades	API 5L Grade B, ASTM A106 Grade B (with a note on 42CrMo)
Material	Seamless Carbon Steel (42CrMo as a special alloy steel)
Standard	API 5L, ASTM A106
Schedule	Sch40
Size Range	Various diameters as per API 5L
Length	Standard pipe lengths, customizable upon request
Ends	Plain ends, beveled ends, threaded, or socket-weld ends
Surface Treatment	As-rolled, annealed, or normalized

#### 3. Product Advantages:

**Seamless Construction:** Provides uniform wall thickness and enhanced resistance to pressure.

**High-Strength Alloy:** The 42CrMo alloy offers superior strength and wear resistance.

**Reliability:** Manufactured to meet API and ASTM standards for consistent quality.

**Long Service Life:** Built to last with minimal maintenance in demanding conditions.

**Corrosion Resistance:** Offers resistance to various environmental conditions.

#### 4. Mechanical Properties:

Property	API 5L Grade B Requirement	42CrMo Typical Properties
Tensile Strength	≥415 MPa (60,000 psi)	≥930 MPa (135,000 psi)
Yield Strength	≥240 MPa (35,000 psi)	≥785 MPa (115,000 psi)
Elongation	≥20% in 50 mm (2 in)	≥12% in 50 mm (2 in)
Hardness	Varies depending on heat treatment	Typically 200-250 HB

#### 5. Chemical Composition:

Element	ASTM A106 Grade B Range (%)	42CrMo Range (%)
Carbon	0.29 - 0.36	0.38 - 0.45
Manganese	0.35 - 0.60	0.50 - 0.80
Phosphorus	≤ 0.025	≤ 0.025
Sulfur	≤ 0.025	≤ 0.025
Silicon	≤ 0.35	≤ 0.40
Chromium	-	0.90 - 1.20
Molybdenum	-	0.15 - 0.25

#### 6. Product Uses:

**Oil and Gas Industry:** For transporting oil, natural gas, and other petroleum products.

**Water and Sewage Systems:** Used in the construction of pipelines for water and sewage.

**Structural Applications:** Employed as structural components in various construction projects.

**Chemical and Pharmaceutical Industries:** Suitable for transporting chemicals and pharmaceutical products.

#### 7. Executing Standards:

**API 5L:** The pipes are manufactured in compliance with API 5L, which specifies the requirements for line pipe used to convey petroleum and other liquids.

**ASTM A106:** This standard covers seamless carbon steel pipes for high-temperature service.

**Conclusion:** American Standard Seamless Carbon Steel Pipe Tubes API 5L ASTM A106 Sch40 and the high-strength 42CrMo alloy steel offer a reliable solution for various industrial applications. Their seamless construction and adherence to API 5L and ASTM A106 ensure quality and performance, providing a cost-effective and durable option for industries such as oil and gas, construction, and chemical processing.

#### 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.



+8615131762322



BYpipe001@pipe-seamless.com



pipe-seamless.com

Room 512, Block B, Tiancheng Building, Yunhe District, Cangzhou City