High Pressure Carbon Steel Boiler Tubes ASTM A335 P11 P22 P91 P12 P92 P5 P9

Our Product Introduction

Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: ASTM A335 P11 P22 P91 P12 P92 P5 P9
- 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: High Pressure Boiler Steel Pipe
- Process: Hot Rolled Cold Rolled Cold Drawn
- Standards: ASTM A335 P11 P22 P91 P12 P92 P5 P9
- Material: Carbon Steel
- 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: **p11 carbon steel boiler pipe**, **p11 carbon steel boiler tubes**, **p22 carbon steel boiler pipe**

Product Description

ASTM A335 Grades P11, P22, P91, P12, P92, P5, P9 High Pressure Alloy Boiler Tubes/Pipes

1. Product Description: ASTM A335 Grades P11, P22, P91, P12, P92, P5, and P9 High Pressure Alloy Boiler Tubes/Pipes are seamless tubes designed for high-temperature and high-pressure applications typically found in power and industrial boilers. These tubes are manufactured from a range of chromium-molybdenum and other alloy steels, offering superior heat resistance and mechanical strength compared to carbon steel tubes.

2. Product Parameters:

Parameter	Description
Grades	ASTM A335 P11, P22, P91, P12, P92, P5, P9
Material	Alloy Steel (Seamless)
Standard	ASTM A335
Size Range	Various diameters and wall thicknesses as per ASTM A335
Length	Standard lengths, customizable upon request
Ends	Plain ends, beveled ends, threaded, or socket-weld ends
Surface Treatment	As-rolled, annealed, or normalized

3. Mechanical Properties:

Property	Requirement by Grade
Tensile Strength	Varies by grade, typically from ≥415 MPa to ≥655 MPa (60,000 to 95,000 psi)
Yield Strength	Varies by grade, typically from ≥205 MPa to ≥415 MPa (30,000 to 60,000 psi)
Elongation	Typically ≥20% in 50 mm (2 in) or 4D, whichever is greater
Hardness	Varies depending on heat treatment and specific grade

4. Chemical Composition:

Element	Typical Range (%) by Grade (Examples)
Carbon	Varies, e.g., P11: 0.05-0.15
Chromium	Varies, e.g., P91: 8.00-9.50
Molybdenum	Varies, e.g., P22: 0.30-0.45
Phosphorus	≤ 0.025 (common across grades)
Sulfur	≤ 0.025 (common across grades)
Silicon	Typically ≤ 0.50

5. Product Uses:

Boiler Tubes: For steam generation in high-pressure boilers.

Superheater Tubes: To increase the temperature of steam beyond the boiler's saturation temperature.

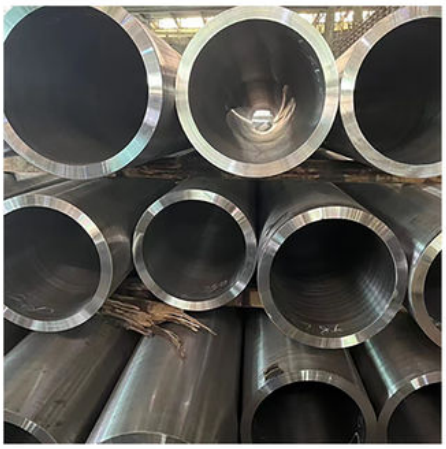
Heat Exchangers: Suitable for use in heat exchangers operating under high pressure and temperature.

Pressure Vessels: Ideal for construction of high-pressure vessels and reactors in petrochemical and refining industries.

6. Product Grade Standards:

ASTM A335: This standard covers seamless ferritic and austenitic alloy-steel boiler, superheater, and heat-exchanger tubes designed for high-temperature service.

Product Image



Company Profile

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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

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APPLICATION SCENARIOS

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