



Alloy High Pressure Boiler Steel Pipe ASTM A213 T11 T22 T91 T12 T92 T5 T9

Our Product Introduction

Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: ASTM A213 T11 T22 T91 T12 T92 T5 T9
- 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 A213 T11 T22 T91 T12 T92 T5 T9
- 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: **high pressure boiler steel pipe astm a213, astm a213 boiler tube suppliers, cold drawn boiler tube suppliers**



Product Description

ASTM A213 High Pressure Alloy Boiler Tubes/Pipes

1. Product Description: ASTM A213 specifies high-quality alloy steel tubes suitable for high-temperature and high-pressure applications, including boiler, superheater, and heat exchanger systems. Grades T11, T22, T91, T12, T92, T5, and T9 are among the various grades defined by this standard, each offering unique combinations of mechanical properties and chemical compositions to cater to specific industrial needs.

2. Product Parameters:

Parameter	Description
Grades	ASTM A213 T11, T22, T91, T12, T92, T5, T9
Material	Alloy Steel (Seamless)
Standard	ASTM A213
Size Range	Various diameters and wall thicknesses as per ASTM A213
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 ≥ 620 MPa (60,000 to 90,000 psi)
Yield Strength	Varies by grade, typically from ≥ 205 MPa to ≥ 415 MPa (30,000 to 60,000 psi)
Elongation	Typically $\geq 20\%$ 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., T11: 0.04-0.10
Chromium	Some grades contain chromium, e.g., T91: 8.00-9.50
Manganese	Typically 0.35-0.60
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: In various heat exchanger applications where high thermal efficiency is required.

Pressure Vessels: Construction of vessels and reactors in petrochemical and refining industries.

6. Product Grade Standards:

ASTM A213: This standard covers seamless ferritic and austenitic alloy-steel boiler, superheater, and heat-exchanger tubes.

Conclusion: ASTM A213 Grades T11, T22, T91, T12, T92, T5, and T9 High Pressure Alloy Boiler Tubes/Pipes are engineered to meet the rigorous demands of high-pressure and high-temperature applications. Their alloy composition provides enhanced strength, ductility, and corrosion resistance, making them suitable for a range of industrial applications. Adherence to ASTM A213 ensures that these tubes offer a reliable and durable solution for critical boiler and heat exchanger systems.

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



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