



## Hot Rolled ASTM A192 Seamless Carbon Steel Boiler Pipe For High Pressure Service

### 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: Seamless Carbon Steel Boiler Pipes
- Technique: Hot-Rolled
- Standards: BS, JIS, GB, ASTM, DIN, AISI
- Material: Carbon Steel
- Wall Thickness: 4mm-150mm
- Outer Diameter: 13.7mm-609.6mm
- Processing Service: Bending, Punching, Cutting
- Usage: Pipeline Transport, Boiler Pipe, Hydraulic/Automobile Pipe, Oil/Gas Drilling
- Highlight: **a192 boiler steel pipe,  
a192 carbon steel boiler pipe,  
hot rolled boiler steel pipe**



## Product Description

### ASTM A192 Seamless Carbon Steel Boiler Pipes

Seamless Carbon Steel Boiler Pipes are designed for use in high-pressure boilers and are manufactured to strict specifications to ensure safety and reliability.

#### Here's an overview of these pipes based on the provided references:

- Standards:** Seamless carbon steel boiler pipes are typically manufactured according to standards such as ASTM A192/A192M and ASME SA192, which specify the requirements for seamless carbon steel boiler tubes for high-pressure service.
- Material Properties:** These pipes are made from carbon steel with specific ranges of carbon content and other alloying elements like manganese, which contribute to their strength and structural integrity.
- Mechanical Properties:** They are characterized by their tensile strength, yield strength, elongation, and hardness, which must meet the minimum requirements as stipulated by the relevant standards.
- Applications:** Used in the construction of boilers, superheaters, and other components in power plants and industrial processes where high-pressure and high-temperature performance is required.
- Manufacturing Process:** Seamless carbon steel boiler pipes are made by piercing a billet and then hot rolling or cold drawing it to size. This process ensures that the pipes do not have any weld seam, which can be a point of weakness.
- Heat Treatment:** The pipes may undergo heat treatment processes such as normalization or quenching and tempering to achieve the desired mechanical properties and microstructure.
- Non-Destructive Testing:** To ensure the integrity of the pipes, they are subject to non-destructive testing methods like ultrasonic testing, magnetic particle inspection, or eddy current testing.
- Chemical Composition:** The chemical composition of these pipes is tightly controlled, with specifications for elements such as carbon, manganese, phosphorus, and sulfur.
- Size and Tolerances:** The pipes are manufactured in various sizes with specific tolerances for outer diameter, wall thickness, and length to ensure consistency and fit within the boiler system.
- Marking and Identification:** Each pipe is marked to indicate its compliance with the relevant standards, including the heat number, size, and manufacturer's identification.
- Hydrostatic Testing:** Before delivery, the pipes are usually subjected to a hydrostatic test to ensure they can withstand the internal pressures they will be subjected to in service.

Seamless carbon steel boiler pipes are critical components in the power generation and petrochemical industries, and their manufacture and use are governed by stringent standards to ensure safety and reliability.

### Standards of Seamless Carbon Steel Boiler Pipes

Product	ASTM A192 ASME SA192 High Pressure Boiler Carbon Seamless Steel Pipe									
Standard	ASTM A192									
Material	A192									
Surface	Black paint, varnish, oil, galvanized									
Pipe Length	5.8 m to 12 m, can be customized according to the length requirements									
Pipe Ends	Plain Ends, Beveled Ends									
End Protector	1. Plastic caps (small OD) 2. Iron protector (large OD)									
Application	Fluid pipe, oil pipe, gas pipe, structure pipe, boiler tubes									
Test	Chemical Component Analysis, Mechanical Properties, Technical Properties, Exterior Size									

#### Chemical composition




Standard	Grade	Chemical Composition (%)									
		C	Si	Mn	P	S	Cr	Mo	Cu	Ni	V
ASTM A192 ASME SA192	A192	0.06-0.18	≤ 0.25	0.27-0.63	≤ 0.035	≤ 0.035	/	/	/	/	/

#### Mechanical properties:

Standard	Grade	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
ASTM A192 ASTM SA192	A192	≥325	≥180	≥35



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