



High Pressure Alloy Seamless Boiler Tubes GB/T5310 12Cr1MoVG

Our Product Introduction

Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: GB/T5310 12Cr1MoVG
- 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 Alloy Steel Pipes
- Process: Hot Rolled Cold Rolled Cold Drawn
- Standards: GB/T5310 12Cr1MoVG
- Material: Alloy Steel Pipe
- Wall Thickness: 1-30mm (0.04 Inch - 0.78 Inch)
- Outer Diameter: 10-324mm
- Processing Service: Bending, Punching, Cutting
- Usage: Pipeline Transport, Oil/Gas Drilling, Machinery Industry
- Highlight: **High Pressure seamless boiler tubes, seamless boiler tubes gb/t5310, 12Cr1MoVG steel boiler tubes**



Product Description

GB/T5310 12Cr1MoVG High Pressure Alloy Seamless Boiler Tubes

1. Product Description: GB/T5310 12Cr1MoVG High Pressure Alloy Seamless Boiler Tubes are engineered for high pressure boiler applications that demand superior heat resistance and mechanical strength. These tubes are manufactured from an alloy steel known for its excellent creep resistance and good weldability. The seamless construction of the 12Cr1MoVG tubes ensures uniform wall thickness and optimal structural integrity, making them ideal for critical boiler components.

2. Product Parameters:

Parameter	Description
Grade	GB/T5310 12Cr1MoVG
Material	High Pressure Alloy Steel (Seamless)
Standard	GB/T5310
Size Range	Various diameters and wall thicknesses as per GB/T5310
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	Typical Requirements
Tensile Strength	≥440 MPa (64,000 psi)
Yield Strength	≥295 MPa (42,500 psi)
Elongation	≥20% in 50 mm (2 in) or 4D, whichever is greater
Hardness	Varies depending on heat treatment

4. Chemical Composition:

Element	Typical Range (%)
Carbon	0.08 - 0.15
Chromium	0.40 - 0.70
Molybdenum	0.30 - 0.50
Vanadium	0.15 - 0.30
Manganese	≤1.00
Phosphorus	≤0.025
Sulfur	≤0.025

5. Product Applications:

Boiler Tubes: Used for steam generation in high-pressure boilers.

Superheater Tubes: Employed in superheater sections to raise steam 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 Advantages:

Seamless Construction: Provides a consistent material structure and eliminates potential seam-related failures.

High-Pressure Resistance: Alloy steel offers excellent resistance to high pressures and temperatures.

Creep Resistance: Designed to resist deformation under prolonged exposure to heat, critical in boiler applications.

Weldability: The 12Cr1MoVG grade has good weldability, facilitating easy integration into various systems.

Corrosion Resistance: Enhanced resistance to corrosion and oxidation due to the alloy content.

Product Image

Cangzhou Baoyang Pipeline Co., Ltd





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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