



Astm A209 T1a Boiler Tube Pipe A269 A519 Seamless Tubing Astm A269 Tp316l

Our Product Introduction

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Basic Information



Product Specification

- Product Name: Seamless Boiler Pipe
- Outer Diameter: 8~1240mm
- Wall Thickness: 1-200mm
- Length: Customized
- Material: Carbon Steel, Stainless Steel, Alloy Steel, Etc
- Section Shape: Round, Square, Or Other Special Shape
- Technique: Hot Rolled, Cold Rolled, Cold Drawn
- Payment Term: T/T, L/C, Western Union
- Highlight: **astm a209 t1a boiler tube, a519 seamless tubing, astm a269 seamless tubing**



Product Description

Hollow Cylindrical Structure Boiler Pipe Seamless Steel Pipe

A seamless boiler tube, also known as a seamless steel boiler tube, is a type of tube designed specifically for use in boiler systems. It is a hollow cylindrical structure made from high-quality steel that can withstand high temperatures and pressures generated within boilers.

Seamless boiler tubes are characterized by their seamless construction, meaning there are no welded joints or seams along the length of the tube. This seamless design eliminates potential weak points and enhances the strength and integrity of the tube, making it suitable for high-pressure and high-temperature applications.

Specifications

| Product name | Material | Standard | Size(mm) | Application |
|---------------------------------|--|--|-----------------------------|--|
| Low temperature tube | 16MnDG 10MnDG 09DG 09Mn2VDG 06Ni3MoDG ASTM A333 | GB/T18984 - 2003 ASTM A333 | OD:8-1240* WT:1-200 | Apply to - 45 ~ 195 low temperature pressure vessel and low temperature heat exchanger pipe |
| High-pressure boiler tube | 20G ASTMA106B ASTMA210A ST45.8-III | GB5310-1995 ASTM SA106 ASTM SA210 DIN17175-79 | OD:8-1240* WT:1-200 | Suitable for manufacturing high pressure boiler tube, header, steam pipe, etc |
| Petroleum cracking tube | 10 20 | GB9948-2006 | OD: 8-630* WT:1-60 | Used in oil refinery furnace tube, heat exchanger tube |
| Low medium pressure boiler tube | 10# 20# 16Mn,Q345 | GB3087-2008 | OD:8-1240* WT:1-200 | Suitable for manufacturing various structure of low and medium pressure boiler and locomotive boiler |
| General structure of the tube | 10#,20#,45#,27SiMn ASTM A53A,B 16Mn,Q345 | GB/T8162-2008 GB/T17396 - 1998 ASTM A53 | OD:8-1240* WT:1-200 | Apply to the general structure, engineering support, mechanical processing, etc |
| Oil casing | J55,K55,N80,L80 C90,C95,P110 | API SPEC 5CT ISO11960 | OD:60-508* WT:4.24-16.13 | Used for extraction of oil or gas in oil Wells casing, used in oil and gas well sidewall |

Production method of boiler seamless tube

Boiler seamless tube is a kind of seamless tube. The manufacturing method is the same as that of seamless pipes, but there are strict requirements on the steel grades used in the manufacture of steel pipes. According to the operating temperature, it can be divided into general boiler tubes and high-pressure boiler tubes.

(1) Manufacturing method:

Generally, the service temperature of boiler seamless pipe is below 450 . Domestic pipes are mainly made of No. 10 and No. 20 carbon steel hot-rolled pipes or cold-drawn pipes.

High-pressure boiler tubes are often in high temperature and high pressure conditions when they are used. The tubes will be oxidized and corroded under the action of high-temperature flue gas and water vapor. The steel pipe is required to have high enduring strength, high oxidation and corrosion resistance, and good organizational stability.

Seamless steel tube production process:

- Hot rolled (extruded) seamless steel tube: round tube billet → heating → piercing → three-roll cross rolling, continuous rolling or extrusion → tube removal → sizing (or reducing) → cooling → straightening → Hydrostatic test (or flaw detection) → marking → storage
- Cold drawn (rolled) seamless steel tube: round tube blank → heating → perforation → heading → annealing → pickling → oiling (copper plating) → multi-pass cold drawing (cold rolling) → blank tube → heat treatment → Straightening → hydrostatic test (flaw detection) → marking → warehousing

(2) Application:

General boiler seamless pipes are mainly used to make water wall pipes, boiling water pipes, superheated steam pipes, superheated steam pipes for locomotive boilers, large and small smoke pipes and arched brick pipes.

High-pressure boiler tubes are mainly used to manufacture superheater tubes, reheater tubes, air guide tubes, main steam tubes, etc. of high-pressure and ultra-high-pressure boilers.

Boiler seamless steel tube adopts steel grade:

- High-quality carbon structural steel grades are 20G, 20MnG, and 25MnG.
- Alloy structural steel grades 15MoG, 20MoG, 12CrMoG, 15CrMoG, 12Cr2MoG, 12CrMoVG, 12Cr3MoVSitB, etc.
- The commonly used 1Cr18Ni9 and 1Cr18Ni11Nb boiler tubes with rust and heat-resistant steels should be subjected to hydrostatic tests, flaring and flattening tests one by one in addition to ensuring chemical composition and mechanical properties. Steel pipes are delivered in heat-treated condition.



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