



## Steam Boiler Glass Tube A192 Astm A106 Gr B Smls Astm A53 Seamless Pipe

### Basic Information



### Product Specification

- Product Name: High Pressure Boiler Pipe
- Length: 5.8m 6m 12m Or To Meet Customer's Demand
- Thickness: SCH5~SCH160, STD, XS, XXS, 0.2mm~100mm
- Outer Diameter: 1/8"~24"
- Material: Carbon Steel, Stainless Steel, Etc
- Section Shape: Round, Square, Or Other Special Shape
- Technique: Hot Rolled, Cold Rolled, Cold Drawn
- Application: Boiler Tube
- Highlight: **steam boiler glass tube, steam boiler tubes, astm a106 gr b smls**



### More Images



## Product Description

### High Standard ASTM A192 High Pressure Steam Boiler Seamless Steel Pipe And Tube

High-pressure boiler seamless steel tube is a kind of boiler tube, which belongs to the seamless steel tube category. The manufacturing method is the same as the seamless pipe, but there are strict requirements on the steel type used for manufacturing the steel pipe.

High-pressure boiler seamless steel tubes are often under high temperature and pressure when used. The tubes will be oxidized and corroded under the action of high temperature flue gas and water vapor. It is required that the steel pipe has high durability, high resistance to oxidation and corrosion, and good structural stability. High-pressure boiler seamless tubes are mainly used to manufacture superheater tubes, reheater tubes, air ducts, and main steam tubes for high-pressure and ultra-high-pressure boilers.

### Specifications

Name	High Pressure Seamless Boiler Tube
Grade	A106 Gr.B, A53, ST52, Grade B, 1020, 1045
Thickness	SCH5~SCH160, STD, XS, XXS, 0.2mm~100mm
Outer Diameter	1/8"~24"(6mm~1080mm)
Length	5.8m 6m 12m or To meet customer's demand
Tolerance	+/-1%
Used Area	Petroleum, chemical, power, gas, water, metallurgy, shipbuilding, construction, etc.
Standards	API 5L, ASME, ASTM, DIN, GB8162, GB8163, GB5310, etc.
Surface Treatment	Black painting, black varnish, transparent oil, epoxy coating, etc
Packaging	Standard exporting packing or as client's requirement
Certificate	BV, ISO9001:2008 and Mill test Certificate
The above are the general items, for the special types, we can also meet your needs.	



### 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:

a. 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

b. 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:**

(1) High-quality carbon structural steel grades are 20G, 20MnG, and 25MnG.

(2) Alloy structural steel grades 15MoG, 20MoG, 12CrMoG, 15CrMoG, 12Cr2MoG, 12CrMoVG, 12Cr3MoVSiTIB, etc.

(3) 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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