



## Astm A213 T22 Heat Exchange Tube Hot Finished Seamless Tubing Astm A312 Asme Sa312

### Basic Information



### Product Specification

- Product Name: Seamless Steel Boiler Pipe
- Material: Carbon Steel, Stainless Steel, Etc
- Length: 5.8m 6m 12m Or To Meet Customer's Demand
- Outer Diameter: 6mm~1080mm
- Section Shape: Round, Square, Or Other Special Shape
- Standard: API 5L, ASME, ASTM, DIN, GB8162, GB8163, GB5310
- Technique: Hot Rolled, Cold Rolled, Cold Drawn
- Application: Boiler Tube
- Highlight: **astm a213 t22 heat exchange tube ,  
astm a519 seamless steel tubing,  
hot finished seamless tubing**



## Product Description

### Grade B Low Medium And High Pressure Boiler Tubes

Low and medium pressure boiler tubes GB3087-2008, seamless steel tubes for high pressure boilers GB5310-1995 are used to manufacture low temperature and high pressure boiler superheated steam pipes, boiling water pipes and locomotive boiler superheated steam pipes, large smoke pipes, small smoke pipes Hot-rolled and cold-drawn (rolled) seamless steel tubes of high-quality carbon structural steel for arch brick pipes. Structural seamless steel tubes (GB / T8162-2008) are seamless steel tubes for general and mechanical structures.

### Specifications

Name	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:

- 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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