

Austenitic Stainless Steel Seamless Pipe



Austenitic stainless steel seamless pipe is widely used in industries that require excellent corrosion resistance, high temperature performance, hygienic surface quality, and reliable pressure-bearing capability. Manufactured without a welded seam, this type of stainless steel pipe provides uniform structure, dependable mechanical properties, and strong resistance to corrosion in a wide range of service environments.

What Is Austenitic Stainless Steel Seamless Pipe?

Austenitic stainless steel is the most commonly used family of stainless steels. It is known for its excellent formability, weldability, toughness, and resistance to oxidation and corrosion. Seamless pipes made from austenitic stainless steel are suitable for critical piping systems in chemical processing, food processing, marine engineering, energy, pharmaceutical production, heat exchangers, water treatment, and general industrial service.

We supply austenitic stainless steel seamless pipe in a wide range of grades such as 304, 304L, 316, 316L, 321, 310S, 347H, and other special stainless steel materials depending on customer requirements. The pipes can be supplied according to international standards including ASTM, ASME, EN, DIN, and JIS standards.

Austenitic stainless steel seamless pipe offers strong resistance to general corrosion in many industrial and atmospheric environments. Grades containing molybdenum, such as 316 and 316L, provide improved resistance to pitting and crevice corrosion in chloride-containing conditions.

Because the pipe is manufactured without a welded seam, it offers a more uniform structure and dependable performance in pressure applications. This makes it suitable for systems where integrity and reliability are important. Austenitic stainless steels maintain good toughness and mechanical performance over a wide temperature range. Certain grades such as 321, 347H, and 310S are suitable for elevated temperature service.

Austenitic stainless steel can be easily fabricated, welded, and formed, making it suitable for a wide range of industrial piping systems.

Specification of Austenitic Stainless Steel Seamless Pipe:

Product Name	Austenitic Stainless Steel Seamless Pipe
Product Type	Seamless Pipe / Seamless Tube
Material Grades	304, 304L, 316, 316L, 321, 310S, 347H
Manufacturing Process	Hot Finished / Cold Drawn / Cold Rolled
Standards	ASTM A312, ASTM A213, ASTM A269, ASME SA312, EN 10216-5
Outside Diameter	6 mm – 630 mm
Wall Thickness	0.5 mm – 40 mm
Length	Random Length / Fixed Length / Custom Length
Size Type	Metric Size / Inch Size
Pipe Schedule	SCH 5, SCH 10, SCH 40, SCH 80, SCH 160, XXS
Surface Finish	Annealed & Pickled (AP), Bright Annealed (BA), Polished
End Finish	Plain End / Beveled End / Threaded End (if required)
Delivery Condition	Solution Annealed / Pickled / Polished
Tolerance	According to ASTM / EN standards
Testing	Chemical Analysis, Mechanical Test, Hydrostatic Test, UT, ET, PMI, Dimension Inspection, Surface Inspection
Certificates	MTC EN 10204 3.1 / 3.2 / PMI Report / Third-Party Inspection Report

Applications	Chemical Processing, Marine, Heat Exchanger, Boiler, Food Processing, Pharmaceutical, Water Treatment
Packing	Bundles, Wooden Cases, End Caps, Waterproof Packing, Seaworthy Export Packing
Origin	China
MOQ	Depending on size and grade
Supply Ability	Custom production and stock supply available

Grades of Austenitic Stainless Steel Seamless Pipe:

We can supply austenitic stainless steel seamless pipe in the following common grades:

304 Seamless Pipe

304L Seamless Pipe

316 Seamless Pipe

316L Seamless Pipe

321 Seamless Pipe

310S Seamless Pipe

347H Seamless Pipe

Other grades may also be available based on project requirements.

The chemical composition and mechanical properties depend on the selected grade and applicable standard.

304 / 304L: good general corrosion resistance and excellent formability

316 / 316L: improved corrosion resistance due to molybdenum content

321: stabilized grade suitable for elevated temperature applications

310S: designed for high temperature oxidation resistance

347H: suitable for high-temperature pressure service

Detailed material data sheets can be provided upon request.

Common Standards of Austenitic Stainless Steel Seamless Pipe:

ASTM A312 / ASME SA312

ASTM A213 / ASME SA213

ASTM A269

EN 10216-5

DIN / JIS standards upon request

Process of Austenitic Stainless Steel Seamless Pipe:

Our austenitic stainless steel seamless pipes are manufactured through controlled production processes to ensure dimensional accuracy, surface quality, and consistent material performance.

Typical manufacturing and processing steps may include:

Raw material inspection

Piercing and hot extrusion or hot rolling

Cold drawing or cold rolling where required

Heat treatment / solution annealing

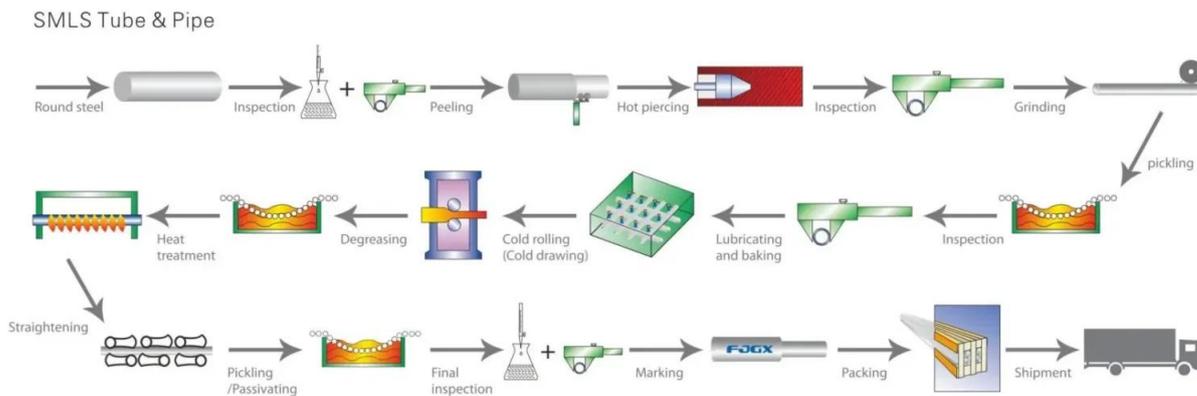
Straightening

Pickling and passivation

Dimensional inspection

Nondestructive testing

Marking and packaging

**Inspections & Tests of Austenitic Stainless Steel Seamless Pipe:**

To ensure product quality and compliance, austenitic stainless steel seamless pipe can be supplied with the following inspections and tests:

Chemical composition analysis



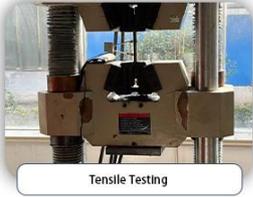
Positive Material Identification (PMI)



Hydrostatic Testing



Dimensional Inspection



Tensile Testing



Wall Thickness Measurement



Surface Inspection

- Mechanical property testing
- Hydrostatic test
- Eddy current test
- Ultrasonic test
- PMI (Positive Material Identification)
- Dimensional inspection
- Surface inspection
- Intergranular corrosion test upon request
- Third-party inspection upon request

Application of Austenitic Stainless Steel Seamless Pipe:

Austenitic stainless steel seamless pipe is widely used in many industries, including:

Used for corrosive fluid transportation, process piping, and plant systems.

Suitable for marine piping systems, seawater-related service, and offshore structures when proper grades are selected.

Used in production lines where corrosion resistance and hygienic surfaces are required.

Applied in systems requiring cleanability and reliable material performance.

Widely used in tubing and piping systems exposed to heat and pressure.

Used in water conveying and process systems requiring corrosion resistance.

Suitable for high-temperature and pressure piping systems depending on the selected grade.



Chemical Industry Pipeline



Construction and Structural Engineering



Energy-Industry



Marine



Ocean Platform



Oil and Gas Industry

Package of Austenitic Stainless Steel Seamless Pipe:

Our austenitic stainless steel seamless pipes are packed in seaworthy export packaging to protect the products during

storage and transportation.

Typical packing methods include:

Bundles with steel straps

Wooden cases or wooden boxes

Plastic caps on both ends

Waterproof wrapping

Clear marking and heat number traceability

Customized packing, marking, and labeling are available according to customer requirements.



How To Get Quote?

To receive an accurate quotation, please provide the following information:

Material grade

Standard specification

Outer diameter and wall thickness

Length requirement

Quantity

Application

Surface finish

End type

Certificate requirements

Destination port or delivery address