



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd  
stainless-steelseamlesspipe.com

## Welded SS Seamless Pipe 3 Inch 403 Stainless Steel 3/16" 6 - 630mm

### Our Product Introduction

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#### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 403
- Minimum Order Quantity: MOQ500kg
- Packaging Details: In wooded cases or pallets, or as for clients requirement
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/P, T/T, Western Union
- Supply Ability: 1000 Ton/Tons per Month



#### Product Specification

- Port: Ningbo
- OD:  $\Phi 6-630\text{mm}$
- Section Shape: Round
- Package: Seaworthy Standard Package
- Price Terms: FOB, CIF, CFR, EXW
- Length: 1-12m
- Technique: Hot Rolled/Cold Rolled
- Wall Thickness: 1-40mm
- Grade: 400 Series
- Highlight: Welded SS seamless Pipe,  
3 Inch Welded seamless Pipe,  
403 seamless Steel Pipe



## Product Description

### Overview

403 stainless steel is an alloy with various elements, including iron, carbon, chromium, and nickel. It has excellent heat- and corrosion-resistance properties, making it perfect for multiple applications. 403 stainless steel is highly resistant to staining and corrosion due to its high levels of chromium. This alloy also contains high amounts of nickel which makes it very durable. It can withstand extreme temperatures without becoming brittle or cracking.

### Application

1. **Construction** 403 stainless steel pipe is widely used in the construction field. It can be used for indoor and outdoor decoration and structural support. In interior decoration, 403 stainless steel pipes are often used to make railings, stair railings, doorknobs and so on. In terms of outdoor decoration, it can be used to make sculptures, landscape decorations and building facades. In addition, 403 stainless steel pipe can also be used as a building structural support material, used to make Bridges, building support columns, etc.

2. 403 stainless steel pipe in the **chemical industry** has important application value. Because 403 stainless steel pipe has excellent corrosion resistance and high temperature resistance, it can be used to manufacture chemical equipment, such as reactors, heat exchangers, storage tanks, etc. In addition, 403 stainless steel pipe can also be used to transport various chemical media, such as acid, alkali, salt and so on. Its corrosion resistance can effectively protect the pipeline from the erosion of the medium and ensure the efficient and stable operation of chemical production.

3. **Medical field** 403 stainless steel pipe plays a key role in the medical field. It can be used to manufacture medical instruments and equipment, such as surgical instruments, medical syringes, catheters, etc. Because the 403 stainless steel pipe has the characteristics of asepsis and corrosion resistance, it is very suitable for the manufacture of medical devices. In addition, 403 stainless steel tubes can also be used to make artificial bones and joints and other medical instruments for orthopedic surgery and joint replacement surgery.

4. **Food processing** 403 stainless steel tubes are widely used in the field of food processing. It can be used to manufacture food processing equipment, such as food filling machines, food mixers, food grinders, etc. Because the 403 stainless steel pipe is non-toxic and corrosion-resistant, it is very suitable for the manufacture of parts that come into contact with food. In addition, 403 stainless steel pipes can also be used to make food storage and transportation equipment, such as food cans, food pipes, etc., to ensure food hygiene and safety.

5. **Energy field** 403 stainless steel pipes have important applications in the energy field. It can be used to transport liquid and gaseous media, such as oil, natural gas, water, etc. Because 403 stainless steel pipe has the characteristics of high temperature resistance and corrosion resistance, it can be used in harsh working conditions. In addition, 403 stainless steel pipes can also be used to make pipelines and equipment for nuclear power plants and thermal power stations to ensure a efficient and stable supply of energy. 403 stainless steel pipes have a wide range of applications. It plays an important role in construction, chemical, medical, food processing, energy and other fields. With the continuous development and progress of science and technology, the application range of 403 stainless steel pipe will be more extensive and provide better support for the development of various fields.

### 403 Stainless Pipe Chemical Composition

Grade	C	Mn	Si	P	S	Cr	Fe
403	0.15	1	0.5	0.04	0.03	12.3	86

### Physical Properties

403 SS is a type of stainless steel, which has a number of desirable physical properties. It features high levels of corrosion resistance and ductility, making it useful in many industries that deal with acidic or corrosive chemicals. Its strength makes it perfect for use in heavy machinery, as well as providing insulation from extreme temperatures. Another important property of 403 stainless steel is its high level of electrical resistance and thermal conductivity, adding to its applications for electrical components used near heat sources. Lastly, due to its non-magnetic characteristics, this Inconel sheet is ideal for use in medical devices and settings where non-magnetic materials are required.

Properties	Metric	Imperial
Density	7.80 g/cm <sup>3</sup>	0.282 lb/in <sup>3</sup>

### Mechanical Properties Stainless Steel 403

403 stainless steel is a highly corrosion-resistant alloy. It has excellent mechanical properties, including good cold working characteristics and high strength. Through heat treatment, its strength and hardness can be further increased for use in applications such as food processing equipment, cutlery, surgical instruments, and pressure vessels. It also offers great resistance to oxidation at high temperatures along with low magnetic permeability. 403 stainless steel is also non-magnetic with excellent formability and weldability.

Properties	Metric	Imperial
Tensile strength	485 MPa	70300 psi
Yield strength (@strain 0.200 %)	310 MPa	45000 psi

Fatigue Strength (annealed, @diameter 25mm/0.984 in)	275 MPa	39900 psi
Shear modulus (typical for steel)	76.0 GPa	11000 ksi
Elastic modulus	190-210 GPa	27557-30458 ksi
Poisson's ratio	0.27-0.30	0.27-0.30
Elongation at break (in 50 mm)	25.00%	25.00%
Izod impact (tempered)	102 J	75.2 ft-lb
Hardness, Brinell (converted from Rockwell B hardness)	139	139
Hardness, Knoop (converted from Rockwell B hardness)	155	155
Hardness, Rockwell B	80	80
Hardness, Vickers (converted from Rockwell B hardness)	153	153

### 403 Stainless Steel Thermal Properties

403 Stainless Steel is well-known for its excellent thermal properties – among the highest of any hardened steel. This makes it ideal for use in applications that require resistance to heat and oxidation at high temperatures. Its ability to rapidly dissipate heat can be further increased by adding a chromium or nickel alloy coating, allowing it to be used in even the most demanding environments. Not only does this material have great corrosion, wear, and thermal properties, but it is also extremely strong, making it suitable for range of industrial applications.

Properties	Metric	Imperial
Thermal expansion co-efficient (@0-100°C/32-212°F)	9.90 $\mu\text{m/m}^\circ\text{C}$	5.50 $\mu\text{in/in}^\circ\text{F}$
Thermal conductivity (@500°C/932°F)	21.5 W/mK	149 BTU in/hr.ft <sup>2</sup> .°F

The **electrical properties** of 403 stainless steel are resistivity –  $740 \times 10^{-6} \Omega\text{-m}$  and electrical conductivity – 22% IACS.

### Package Process

- 1.with plastic cap to protect both ends
- 2.weaving bag wrapped outside the pipe
- 3.then pack into wooden case.

### Image



Company introduction

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