



ZHEHENG STEEL

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



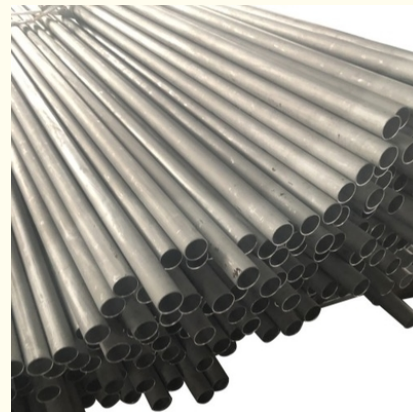
## Long Straight Round Stainless Steel SMLS Pipe EN 1.4539 For Pharmaceutical

### Our Product Introduction

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#### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: EN1.4539
- Minimum Order Quantity: MOQ500kg
- Packaging Details: Seaworthy Standard Package
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/P, T/T, Western Union
- Supply Ability: 5000 Ton/Tons per Month



#### Product Specification

- NPS: 1/8"-24"
- Wall Thickness: SCH10S, SCH40, SCH XS, SCH 60, SCH80S, SCH12020, SCH1160, SCH
- Delivery Time: 15-21 Days
- Application: Heat Exchanger, Boiler, Condenser, Cooler, Heater
- Section Shape: Round
- Finished: Annealing Pickling, Bright Annealing
- Price Term: FOB CIF CFR EXW Etc.
- Highlight: **EN 1.4539 Steel Seamless Pipe, Stainless Steel Pipe for Pharmaceutical, Long Straight Round SMLS Stainless Steel Pipe**



## Product Description

### Overview

SS 1.4539 pipes, also known as UNS N08904, are made up of a high amount of chromium, nickel and iron, which offer superior corrosion resistance, strength and toughness. It has low carbon content, copper and molybdenum, contributing to its excellent resistance to pitting and crevice corrosion. It's also well-suited for use in environments that require resistance to elevated temperatures and high levels of corrosion.

### Which industries used?

Chemical processing  
Oil and gas  
Pharmaceutical

### Chemical composition

The high chromium content promotes and maintains a passive film which protects the material in many corrosive environments. 1.4539 has a greater resistance to precipitation of ferrite and sigma phases on cooling and welding than other stainless steels containing molybdenum such as 316L and 317L. There is no risk of intercrystalline corrosion on cooling or welding due to the low carbon content. Its maximum service temperature is at 450°C.

Grade	Cr	Ni	C	Si	Mn	P	S	Mo	Cu	Fe
1.4539	19.0-23.0	23.0-28.0	0.02Max	1.0max	2.0max	0.045max	0.035max	4.0-5.0	1.0-2.0	balance

### Mechanical Properties

1.4539 has good formability and weldability characteristics due to its low carbon content. It also offers good toughness and strength at both room temperature and elevated temperatures. Additionally, it exhibits excellent fatigue strength even after prolonged exposure to high temperatures.

Grade	Tensile Strength KSI (min.)	Yield Strength 0.2% Offset KSI (min.)	Elongation % in 2"(50.8 mm)	Hardness (Brinell) MAX	Hardness (Rockwell B) MAX
1.4539	71	31	35	70-90	150

### Physical Properties (Room Temperature)

This type of steel has good ductility and excellent machinability properties, which make it easy to work with when fabricating parts or components from this material. It also has excellent thermal expansion properties, making it suitable for cryogenic environments or high-temperature applications where thermal shock can occur.

Specific Heat (0-100°C)	450	J.kg-1.°K-1
Thermal Conductivity	11.5	W.m -1.°K-1
Thermal Expansion	15.8	µm/µm/°C
Modulus Elasticity	190	GPa
Electrical Resistivity	9.52	Ohm-cm
Density	7.95	g/cm3

### Application

Energy Chemical industry  
Mechanical Engineering  
Automobile Industry  
Rail Transit Equipment  
Steamship production  
Bridge Engineering

### Heat Treatment

Annealing: The recommended annealing temperatures for 904L wrought steel is 1095 °C (2000 °F).

### Why choose us

- 1.Size control
- 2.Chemical composition control
- 3.hydraulic testing machine
- 4.ultrasonic testing of steel tube

### Package detail



## Shipping



1. Packing type: Carton and wooden case, also be packaged according to customer requirements.
2. Modes of transportation: by sea, by air or land transportation, of course, a small amount can also be by Express.



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