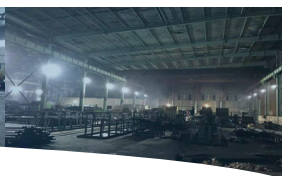




ZHEHENG STEEL

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



## 50mm Stainless Steel Pipes 15mm ASTM 204 Round Tube Hot Rolled

Our Product Introduction

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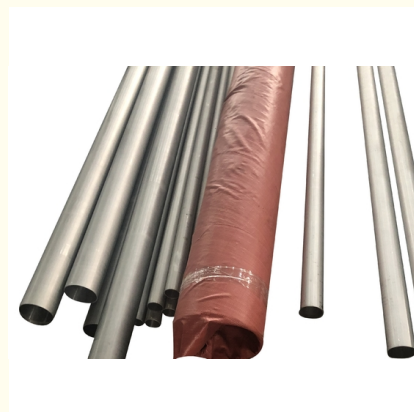
### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 204
- Minimum Order Quantity: 1 Ton
- Packaging Details: In wooded cases or pallets, or as per clients requirement
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/A, D/P, Western Union
- Supply Ability: 5000 Ton/Tons per Month



### Product Specification

- Keywords: Stainless Steel Welded Tube
- Usage: Industry/Construction
- Tolerance:  $\pm 1\%$
- Technique: Cold Rolled Or Hot Rolled
- Price Term: CIF CFR FOB EX-WORK, etc.
- WT: SCH5S-XXS
- SIZE: Size Can Customized
- Highlight: **50mm Stainless Steel Pipes,  
Stainless Steel Pipes 15mm,  
ASTM Stainless Steel Seamless Pipe Tube**



## Product Description

### Overview

204 stainless steel is a kind of austenitic stainless steel, belonging to the 200 series. Austenitic steels are known for their excellent corrosion resistance and high ductility, making them ideal for a wide range of applications. 204 stainless steel is different from similar products in that it contains less nickel than similar products. In fact, it contains only about 3.5% nickel compared to the typical 8-10% found in most austenitic steels. This leads to lower-cost alternatives without sacrificing quality and durability. Despite the low nickel content, 204 stainless steel has good corrosion resistance and can be used in applications where it may come into contact with moisture or corrosive substances. It also has good toughness and weldability, making it easy to use in the manufacturing process.

### Chemical composition

Cr	15.0-17.5
Ni	1.5-3.5
Mn	6.5-8.5
Si	≤1.00
C	≤0.15
P	≤0.060
S	≤0.030
N	≤0.25

### 204 Stainless Steel Physical Properties

Density	7.93 g/cm <sup>3</sup> (grams per cubic centimeter)
Melting Point	1454–1538 °C (2650–2800 °F)
Tensile Strength	620–830 MPa (megapascals)
Yield Strength	310–760 MPa (megapascals)
Elongation	40–50%
Hardness	Brinell Hardness 180–220 HB (hardness in Brinell scale)
Modulus of Elasticity	193–200 GPa (gigapascals)
Thermal Expansion	15.9 µm/m°C (micrometers per meter-degree Celsius)

### Mechanical Properties

Yield Strength (0.2% Offset)	205 MPa (30 KSI)
Tensile Strength	515 MPa (75 KSI)
Elongation	40%
Hardness	Rb 95 max
Ductility	55%
Modulus of Elasticity (Young's Modulus)	193 GPa (28×10 <sup>6</sup> psi)
Poisson's Ratio	0.29-0.33
Thermal Conductivity	16.3 W/m-K (11.4 BTU/hr/ft <sup>2</sup> /ft <sup>2</sup> /°F)
Specific Heat	0.12 J/g-K (0.02 BTU/lb/°F)
Thermal Expansion	9.4 µm/m-K (5.2 x 10 <sup>-6</sup> in/in-°F)

### Feature

Low cost: Due to the low content of nickel in 204 stainless steel, the cost is relatively low.  
Good corrosion resistance: 204 stainless steel has a high chromium content and can provide excellent corrosion resistance.  
Good mechanical properties: 204 stainless steel has a high manganese content, which can provide excellent mechanical properties  
Good machinability: The silicon content of 204 stainless steel is low, which can provide good machinability.

### 204 pipe field of use

204 Stainless steel is mainly used in the manufacture of household appliances, auto parts, building materials, machinery manufacturing and other fields of parts and equipment.

### Advantages

204 stainless steel is a high quality alloy with many advantages. One of the greatest advantages of this stainless steel is its

excellent corrosion resistance. It can withstand harsh environments and exposure to chemicals, making it ideal for applications in the chemical, food processing and medical industries.

Another benefit of 204 stainless steel compared to other stainless steel alloys is that it is affordable. Its low nickel content reduces costs without compromising performance or quality. This makes it an attractive option for manufacturers looking for cost-effective solutions without sacrificing durability.

204 stainless steel in addition to affordable and corrosion resistance, but also has good formability and weldability. This means that it can be easily molded into a variety of products or components while maintaining its strength and integrity.

In addition, 204 stainless steel has excellent heat resistance, making it ideal for high temperature applications such as furnaces or ovens. Its ability to resist oxidation at high temperatures ensures longevity in these demanding conditions.

Overall, 204 stainless steel has a range of advantages, including excellent corrosion resistance, economy, good formability and weldability, and excellent heat resistance, making it suitable for a variety of industrial applications where durability is most important.

### Disadvantage

A major disadvantage of 204 stainless steel is its limited corrosion resistance. This means it may not work properly in environments with high humidity or exposure to corrosive substances.

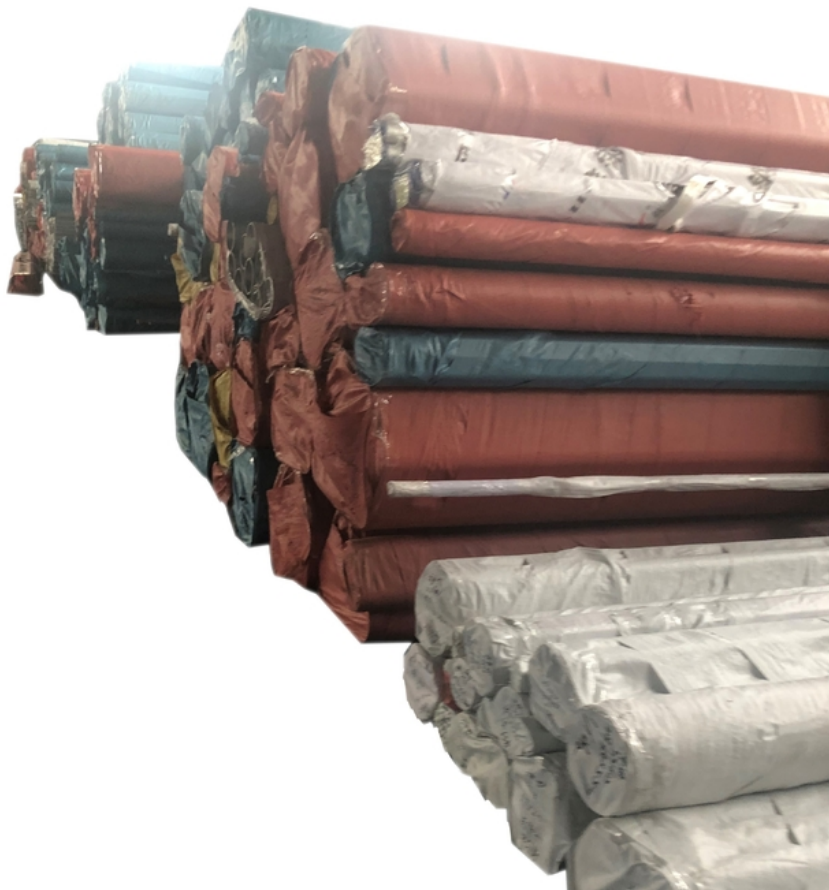
Another disadvantage is its lower strength and hardness compared to other grades such as 304 or 316. This makes it less suitable for applications where durability and toughness are key factors.

In addition, the weldability of 204 stainless steel can be more challenging than other grades because its higher carbon content can cause cracking during welding. While 204 stainless steel is more affordable than some advanced materials, it may not always offer the best value over time due to its limitations in certain areas, including corrosion resistance and overall durability.

### Packaging &Shipping

Packing Idea	Packing Method by Customer Request
1	Each piece per poly bag or labeling.
2	Each piece per paper tube.
3	Pack tubes into paper cartons for customer special requirement.
4	50 pieces per bundle with waterproof packing
5	Provide strong packing with wooden crate, wooden case, steel crate, plastic pallet, wooden pallet, paper pallet as customer need.
6	Good experience for loading goods into container for customer request

### Product package



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