



ZHEHENG STEEL

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



## TP 321 UNS S32100 Seamless Steel Tube Sch40S Homogeneous Corrosion

Our Product Introduction

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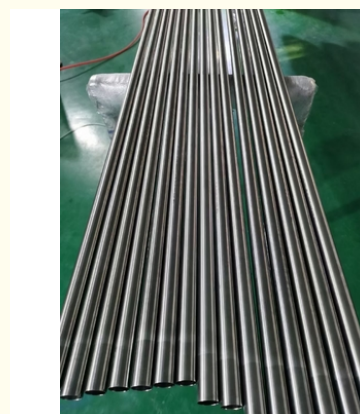
### Basic Information

- Place of Origin: CHINA
- Brand Name: zheheng steel
- Certification: iso9001
- Model Number: 88.9mm
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: In bundles with waterproof material, or wooden crate packing
- Delivery Time: 30 DAYS
- Payment Terms: L/C, T/T, D/A, D/P
- Supply Ability: 50TONS/30DAYS



### Product Specification

- Material: SUS321
- Standard: ASTM, GB, JIS, DIN, EN, AISI
- Shape: Sch40S
- Technique: Cold-drawn
- Purpose: Chemical Industry
- Package: Woven Packing
- OD: 6-830mm
- Highlight: **S32100 Seamless Steel Tube,  
TP 321 Seamless Steel Tube,  
Homogeneous Corrosion Seamless Tube**



## Product Description

### ASTM TP321 UNS S32100 Seamless Stainless steel Tube Sch40S Used in Heat Exchanger

#### Introduction to products:

At the temperature of 800-1500°F (427-816°C), chromium carbide precipitation conditions can still maintain good resistance to intergranular corrosion. Due to the addition of titanium to the composition, 321 alloy can still maintain stability in the case of chromium carbide formation.

321 alloy stainless steel has the advantage of working in high temperature environment due to its excellent mechanical properties. Compared with 304 alloy, 321 alloy stainless steel has better ductility and stress fracture resistance.

#### Description for our production range:

**Name** :Stainless Steel seamless Pipe

**Standard** :EN10216-5 , EN10216-2,DIN 17456 , DIN 17458,ASTM A312, A213, A269, A511, A789, A790 ETC,GOST 9941 , GOST 5632, JIS G3459 , JIS G3463,GB/T14975,GB/T14975, GB13296, GB5310, GB9948

#### Material Grade :

TP321/321H

**Diameter** :OD: 6-830mm

**W.T**: 0.6mm - 60mm

**Length** :Up to 13 meter or as customers' request

**Tolerance** :According to the Standard.

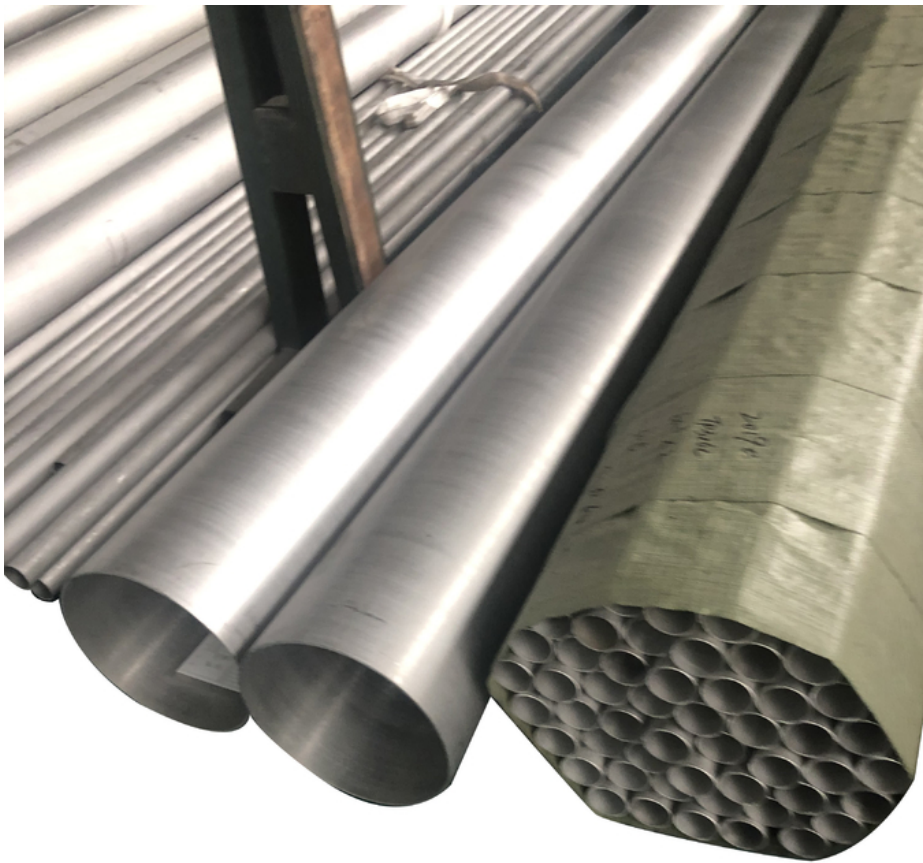
#### Surface :

Natural Color of annealing & pickling, 180G, 320G, 400G Satin / Hairline  
400G, 500G, 600G or 800G Mirror finish

#### Test :

UT, ET, HT, RT,ect, and others according to the standard,  
or as the requests of the customer

#### our products packing:



#### APPLICATIONS :

Stainless steel Reheater Tubes and Superheater Tubes for Boiler  
 Aircraft exhaust manifolds  
 Expansion joints  
 Bellows  
 Furnace parts  
 Heating element tubing  
 Heat Exchanger

#### Physical Properties

AISI 321 steel physical properties are given in the following lists, including density, thermal expansion, elastic modulus, thermal conductivity, specific heat capacity and electrical resistance.

SS321 Physical Properties	
Density, g/cm <sup>3</sup> (lb/in. <sup>3</sup> )	7.9 (0.29)
Melting point, °C (°F)	1400-1425 (2550-2600)
Specific heat capacity, J/kg·K (Btu/lb · °F)	500 (0.12) at 20 °C
Electrical resistivity, μΩ·m	0.72 at 20 °C
Magnetic permeability	1.02 (Approximate)
Elastic modulus, GPa (10 <sup>6</sup> psi)	193 (28)
Thermal conductivity, W/m·K (Btu/ft · h · °F)	16.1 (9.3) at 100 °C (212 °F)
	22.2 (12.8) at 500 °C (932 °F)
	16.6 (9.2) at 0-100 °C (32-212 °F)
Coefficient of thermal expansion, 10 <sup>-6</sup> /K (μin./in. · °F)	17.2 (9.6) at 0-315 °C (32-600 °F)

18.6 (10.3) at 0-538 °C (32-1000 °F)

**Notes:**

10-6-K-1 = 10-6/K  
1  $\Omega \cdot \text{mm}^2/\text{m}$  = 1  $\mu\Omega \cdot \text{m}$   
1 g/cm<sup>3</sup> = 1 kg/dm<sup>3</sup> = 1000 kg/m<sup>3</sup>  
1 GPa = 1 kN/mm<sup>2</sup>  
1 MPa = 1 N/mm<sup>2</sup>

**other supplement:**

- 1.A999/A999M: Each pipe shall be subjected to the nondestructive electric test or the hydrostatic test, the pipe of test to be used shall be at the option of the mfg, unless otherwise specified in the PO.
2. The Pipe lengths : Unless otherwise agreed upon, all size from NPS 1/8" TO AND INCLUDING nps 8 are available in a length up to 24ft with the permitted range of 15 to 24 ft. Short length are acceptable and the number and min, length shall be agreed upon between mfg and purchaser.
3. The finished pipe shall be reasonably straight and shall have workmanlike finish, Removal of imperfections by grinding is permitted, provided the W.T are not decreased to the less than the permitted in Section 9 of Specification A999/A999M
4. Butt Weld End: According to ANSI B 16.25
5. Pipe Marking: Specified in A999/999M, include "Logo+Standard+SIZE+Heat No.+Lot No.+H.T/E.T/U.T"
6. Packing: Each Pipe end is protected by Plastic cap. Then packed by Anti-rust steel strip, The outside of the bundle is plastic woven bag, or Plastic film.
7. Packing Mark: SIZE + STEEL GRADE+ QTY OF PIECE/WEIGHT/METRE.
- 8.MTC: BWSS Official Original MTC paper will be supplied for each order.



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