



ZHEHENG STEEL

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



## Welded Stainless Steel Seamless Pipe Tube AISI 409 For Exhaust System

Our Product Introduction

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### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 409
- 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
- Series: 400 Series
- Highlight: **Welded Stainless Steel Seamless Pipe tube, AISI 409 Seamless Pipe tube, 40mm Seamless Stainless Steel Tubing**



## Product Description

### Overview

The corrosion resistance and high temperature resistance of 409 stainless steel are relatively high, and can be used in the exhaust system to increase the life of 409 stainless steel and save energy. And because of its high temperature resistance, it can achieve a high-efficiency exhaust system, reduce the thickness of the exhaust system, save energy, reduce exhaust emissions, and the cost of 409 stainless steel is low, the yield is high, and easy to replace. It is generally used in automobile exhaust emission devices to ensure the exhaust emission of automobiles and the good use of automobile tail parts. The 409 is also commonly used in many other industries. For example, domestic heating furnaces, farm installations, fuel filters, etc. These need to withstand high temperatures.

### Application

Automotive exhaust systems  
Catalytic converters  
Mufflers  
Tailpipes  
Farm equipment  
Structural support and hangers  
Transformer cases  
Furnace components  
Heat exchanger tubing

### 409 Stainless Pipe Chemical Composition

	C	Mn	Si	P	S	Cr	Ni	Ti
409	max:0.08	max:1.0	max:1.0	max:0.045	max:0.045	min: 10.5 max: 11.75	max: 0.5	min: 0.48 max: 0.75

### Physical Properties

Density lbm/in <sup>3</sup>	Thermal Conductivity (BTU/h ft. °F)	Electrical Resistivity (in x 10 <sup>-6</sup> )	Modulus of Elasticity (psi x 10 <sup>6</sup> )	Coefficient of Thermal Expansion (in/in)/ °F x 10 <sup>-6</sup>	Specific Heat (BTU/lb/ °F)	Melting Range (°F)
at 68°F: 0.280	9.4 at 212°F	28.3 at 68°F	29	5.84 at 32 – 212°F	0.114 at 68°F to 212°F	2500 to 2590
	12.4 at 932 °F	39.4 at 752°F		6.60 at 32 – 1000°F		
		49.6 at 1652 °F		6.86 at 32 – 1500°F		

### Mechanical Properties

Grade	Tensile Strength MPa (min)	Yield Strength 0.2% MPa(min)	Elongation %	Hardness (Brinell) MAX	Hardness (Rockwell B) MAX
409	380	207	20	207	95

### Corrosion Resistance

Grade 409 stainless steels have excellent resistance to exhaust gas and atmospheric corrosion, superior to that of 410 martensitic grades with 12% chromium and 3CR12. However, the corrosion resistance is lower than that of grade 430 steels containing 17% chromium. The surface of grade 409 steels is liable to mild corrosion, which limits the usage of steels for decorative purposes.

### Heat Resistance

Grade 409 stainless steels offer scaling resistance at temperatures up to 675°C during continuous operation, and up to 815°C under intermittent conditions. These temperatures pertain to specific service environments.

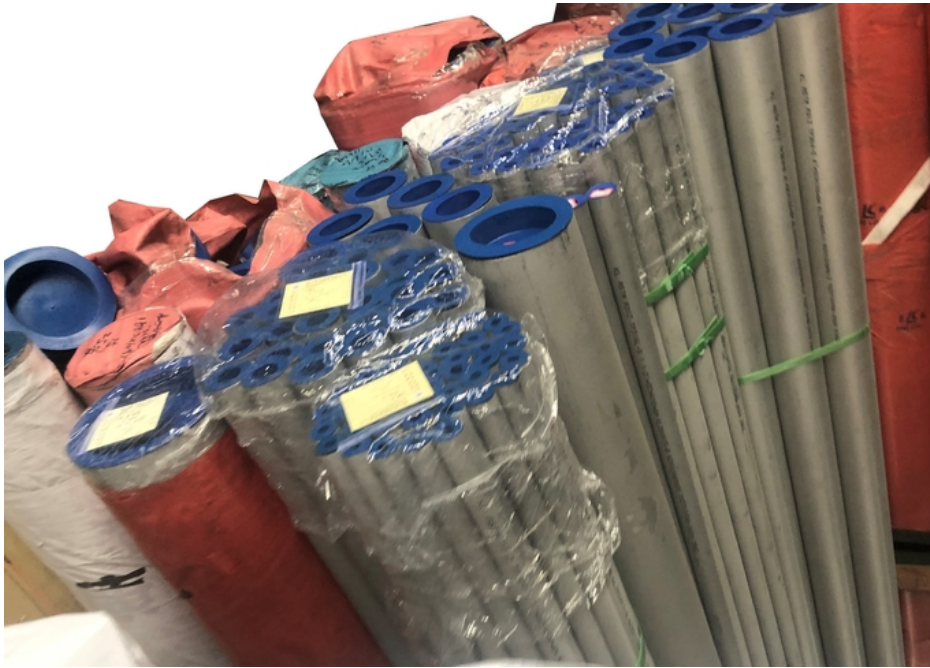
### Heat Treatment

Annealing of grade 409 steels is carried out at temperatures ranging from 790 to 900°C, followed by air-cooling. Thermal treatment does not harden grade 409 steels.

### 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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☎ 15858820108

✉ [sales@zhehengsteel.com](mailto:sales@zhehengsteel.com)

🌐 [stainless-steelseamlesspipe.com](http://stainless-steelseamlesspipe.com)

No999 .wenzhou airport wenzhou city,zhejiang china