



ZHEHENG STEEL

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



ASTM Ss409/S40900 Stainless Steel Pipe 500mm Welded Seamless 2mm Thick

Our Product Introduction

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Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: pipe
- Minimum Order Quantity: 1 Ton
- 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: 8000 Ton/Tons per Month



Product Specification

- Length: 3-6 Meters Or Customized
- Usage: Decorative
- Technique: Cold Drawn/Cold Rolling Or Both Of Them
- Thickness: 0.2-20mm
- OD: 10-820mm
- Grade: 400 Series
- Highlight: **S40900 Stainless Seamless Pipe,
Welded Seamless Stainless Steel Pipe,
2mm Thick Stainless Steel Pipe**



Product Description

Overview

Alloy 409 is a general purpose, chromium, titanium stabilized, ferritic stainless steel whose primary application is automotive exhaust systems. It contains 11% chromium which is the minimum amount for the formation of the passive surface film which gives stainless steels their corrosion resistance. It combines good elevated temperature corrosion resistance with medium strength, good formability, and overall cost. Alloy 409 resists corrosion strongly compared to carbon steel and is used as an alternative to carbon steel in mildly challenging environments where its high resistance to corrosion and high temperature oxidation gives an advantage. It is commonly used in applications where appearance is a secondary quality to mechanical properties and corrosion resistance.

Chemical composition

	C	Mn	Si	P	S	Cr	Ni	Ti
409	0.08	1	1	0.045	0.045	10.5-11.75	0.5	0.48-0.75

Physical Properties

Grade	Density (kg/m³)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (µm/m/°C)			Thermal Conductivity (W/m.K)		Specifi c Heat 0- 100°C (J/kg.K)	Electric al Resisti vity (nΩ.m)
			0- 100°C	0- 315°C	0-538°C	at 100°C	at 500°C		
430	7750	200	10.4	11	11.4	26.1	26.3	460	600

Application

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

Corrosion 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.

Mechanical Composition

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

Physical Properties

Grade	Density (kg/m³)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (µm/m/°C)			Thermal Conductivity (W/m.K)		Specifi c Heat 0- 100°C (J/kg. K)	Electri cal Resisti vity (nΩ.m)
			0-100°C	0-315°C	0- 538°C	at 100°C	at 500°C		
409	7800	200	11	11.7	12.4	25.8	27.5	460	600

Heat Resistance

Generally classified as resistant to scaling in intermittent service up to 1499°F (815°C) and up to 1247°F (675°C) in continuous service

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.

Commodity packaging



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