



ZHEHENG STEEL

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



AISI 309S Stainless Steel Tubes For Boiler And Annealed Condition 630mm

Our Product Introduction

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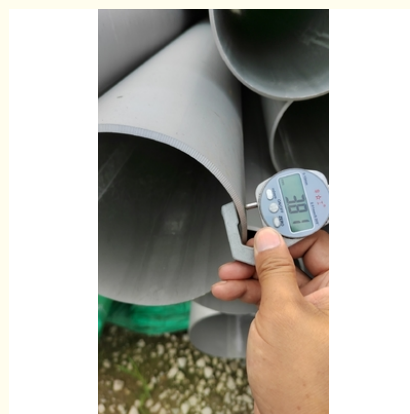
Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 309S
- 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 Rolling
- Wall Thickness: 1-40mm
- Highlight: **AISI 309S stainless Steel Tubes, Seamless stainless Steel Tubes For Boiler, stainless Tubes 630mm**



Product Description

Characteristic

AISI 309S stainless steel is an austenitic stainless steel . Cited properties are appropriate for the annealed condition. S30908 is the UNS number. It contains less nickel in its composition , moderately low tensile strength and lower amount of carbon in its composition among the wrought austenitic stainless steels thus utilization in areas where high temperature gases may pose a problem. Type 309S is additionally characterized by its resistance to oxidation and creep, along with its ability to withstand high temperatures. Moist environments have no effect on it, due to the higher levels of nickel and chromium in its makeup. Because of this, it is often utilized in marine environments in place of StainlessSteel 304, as it displays a higher resistance. Despite its excellent weldability, Type 309S does have a tendency to work harden.

Application

- 1)Auto exhaust components
- 2)Refinery and also chemical processing machines
- 3)Boiler baffles
- 4)Kiln liners
- 5)Sulfite liquor managing machine
- 6)Carburizing annealing products
- 7)Heat exchangers
- 8)Aircraft and also jet engine parts
- 9)Heating components

309S Stainless Pipe Chemical Composition

Grade	C	Si	Mn	P	S	Ni	Mo	Cr
309S	0.08	1	2	0.045	0.03	12.00-15.00	0.75	22.00-24.00

Mechanical Properties Stainless Steel 309S

Property	Typical	Minimum
Tensile Strength MPa	540	515
Proof Stress(0.2% Offset) MPa	280	205
Elongation (Percent in 50mm)	54	40
Hardness (Brinell)	159	-
Endurance (fatigue) limit, MPa	260	-

Physical properties

DENSITY(kg/dm³)20℃		7.98
Melting Range/℃		1397~1453
Specific Heat/[kj/(kg·k)]0℃~100℃		0.5
Thermal Conductivity	100℃	15.5
	500℃	18.6
coefficient of linear expansion/(10-6/k)	0℃~100℃	14.9
	0℃~500℃	18.0
specific resistance/Ω·mm²/m)20℃		0.78
longitudinal modulus of elasticity		193
magnetism		-

Thermal performance

309S stainless steel is an austenitic chromium-nickel stainless steel with excellent corrosion and heat resistance. The thermal properties of 309S stainless steel include high melting point, high thermal conductivity and low coefficient of thermal expansion. These properties make 309S ideal for high temperature applications, such as furnaces and industrial heat exchangers.

Oxidation resistance

309S has a maximum carbon content of 0.08%, while grades 304 and 310 have a carbon content of 0.04% and 0.05%, respectively. For this reason, 309S is commonly used in welding applications that require frequent fuses, such as the food, beverage and pharmaceutical industries. In addition, 309S has good oxidation resistance and can withstand temperatures up to 1900°F before scaling.

Product Testing

Hydrostatic test
Flaw detection test
Lab test

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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