



ZHEHENG STEEL

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



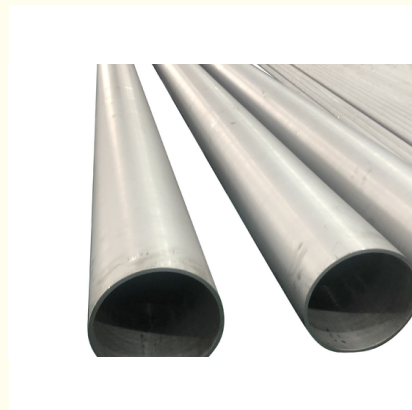
Martensitic Grade Thin-Wall Stainless Steel Pipe Tube AISI 410/UNS S41000

Our Product Introduction

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Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 410
- 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: **Ferritic Thin-wall Stainless steel pipe, AISI 410 Stainless steel pipe, S41000 Stainless steel tube**



Product Description

Overview

Grade 410 stainless steels are general-purpose martensitic stainless steels containing 11.5% chromium, which provide good corrosion resistance properties. However, the corrosion resistance of grade 410 steels can be further enhanced by a series of processes such as hardening, tempering and polishing. Quenching and tempering can harden grade 410 steels. They are generally used for applications involving mild corrosion, heat resistance and high strength. Martensitic stainless steels are fabricated using techniques that require final heat treatment. These grades are less resistant to corrosion when compared to that of austenitic grades.

Application

Bolts, screws, bushings and nuts
Petroleum fractionating structures
Shafts, pumps and valves
Mine ladder rungs
Gas turbines

410 Stainless Pipe Chemical Composition

Grade		C	Mn	Si	P	S	Cr	Ni
410	min.	-	-	-	-	-	11.5	0.75
	max.	0.15	1	1	0.04	0.03	13.5	

Physical Properties

Grade	Density (kg/m³)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (µm/m/°C)			Thermal Conductivity (W/m.K)		Specific Heat 0- 100 °C (J/kg.K)	Electrical Resistivity (nΩ.m)
			0-100 °C	0-315 °C	0-538 °C	at 100 °C	at 500 °C		
410	7800	200	9.9	11	11.5	24.9	28.7	460	570

Mechanical Properties Stainless Steel 410

Tempering Temperature (°C)	Tensile Strength (MPa)	Yield Strength 0.2% Proof (MPa)	Elongation (% in 50 mm)	Hardness Brinell (HB)	Impact Charpy V (J)
Annealed *	480 min	275 min	16 min	-	-
204	1475	1005	11	400	30
316	1470	961	18	400	36
427	1340	920	18.5	405	#
538	985	730	16	321	#
593	870	675	20	255	39
650	300	270	29.5	225	80

Corrosion Resistance

Grade 410 stainless steels are resistant to hot gases, steam, food, mild acids and alkalies, fresh water and dry air. These steels obtain maximum corrosion and heat resistance through hardening. However, grade 410 steels are less corrosion resistant than austenitic grades and grade 430 ferritic alloys containing 17% chromium. Smooth surface finish offers improved performance of steels.

Heat Resistance

Grade 410 steels have good scaling resistance at temperatures of up to 650 °C. However, the mechanical properties of the material will tend to reduce at temperatures ranging from 400 to 580 °C.

Heat Treatment Annealing

Grade 410 steels can be fully annealed at temperatures from 815 to 900 °C, followed by slow furnace cooling and air-cooling. Process annealing of grade 410 steels can be carried out at temperatures ranging from 650 to 760 °C and air-cooled. Hardening – Hardening of grade 410 steels can be performed at 925 to 1010 °C, followed by air and oil quenching. Heavy sections of grade 410 need to be oil quenched. Tempering, to enhance the mechanical properties and hardness of grade 410 steels, follows this process. It is not recommended to perform tempering at temperatures from 400 to 580 °C.

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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