



ZHEHENG STEEL

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

AISI 416 Welded Seamless Tube UNS 41600 Stainless Steel 3/4 SCH40

Our Product Introduction

for more products please visit us on stainless-steelseamlesspipe.com

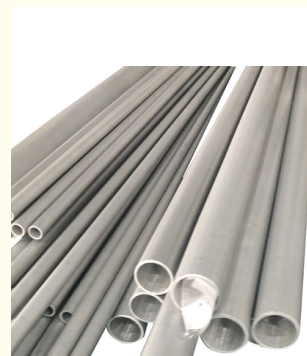
Basic Information

- Place of Origin: Wenzhou,China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 416
- 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
- Grade: 400 Series
- Highlight: **AISI Seamless Welded Tube,
SCH40 Welded Seamless Tube,
UNS 41600 Seamless Stainless Tube**



Product Description

Overview

Grade 416 steel is a free-machining stainless steel with a machinability of 85%, the highest of all stainless steel. With most of the free-machining stainless steels, adding sulfur can improve the machinability, leading to manganese sulfide inclusions. The addition of sulfur also reduces the formability, weldability, and corrosion resistance of 416 steel to below that of grade 410. Because of their high machinability and low cost, grade 416 steel is available in highly tempered, hardened, or unhardened forms.

Application

The superior machinability and corrosion resistance of stainless steel grade 416 makes it ideal for various industries. It's often used in the automotive and aerospace industry as well as medical and food processing equipment, valves, pumps, fasteners, and marine hardware.

416 Stainless Pipe Chemical Composition

Grade		C	Mn	Si	P	S	Cr	Mo
416	min.	-	-	-	-	0.15	12	-
	max.	0.15	1.25	1	0.06	-	14	0.6

Physical Properties

The physical properties of SS416 also contribute to its overall performance. This steel has a 7.74 g/cm³ density and a melting point of 1450° C. It is excellent at conducting heat but has less conductivity for electricity than other metals, such as copper or aluminium.

Grade	Density (kg/m³)	Elastic Modul us (GPa)	Mean Coefficient of Thermal Expansion			Thermal Conductivity		Specific Heat 0- 100°C (J/kg.K)	Electrical Resistivity (nΩ.m)
			(µm/m/°C)			(W/m.K)			
			0-100°C	0-315°C	0- 538°C	at 100°C	at 500°C		
416	7800	200	9.9	11	11.5	24.9	28.7	460	570

Mechanical Properties Stainless Steel 416

Tempering Temperature (°C)	Tensile Strength (MPa)	Yield Strength	Elongation	Hardness Brinell	Impact Charpy V (J)
		0.2% Proof (MPa)	(% in 50mm)	(HB)	
Annealed *	517	275	30	262	-
Condition T **	758	586	18	248-302	-
204	1340	1050	11	388	20
316	1350	1060	12	388	22
427	1405	1110	11	401	#
538	1000	795	13	321	#
593	840	705	19	248	27
650	796	670	17.5	253	38

Grade 416 Stainless Steel Corrosion Resistance

Due to its high chromium content, Grade 416 offers good corrosion resistance in many environments, including mild acid solutions like vinegar or citric acid solutions, without any significant pitting or crevice corrosion issues, unlike some other ferritic grades such as 409, which can suffer from this issue if exposed to these conditions over extended periods.

SS416 Heat Resistance

AISI 416 has good oxidation resistance up to around 800°C but should not be exposed to temperatures above 870°C due to the risk of embrittlement or loss of strength at these temperatures.

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

□



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd



15858820108



sales@zhehengsteel.com



stainless-steelseamlesspipe.com

No999 .wenzhou airport wenzhou city,zhejiang china