



ZHEHENG STEEL

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



ASTM A312 TP317L Stainless Steel Pipe Thick Wall With Pulp and Paper

Our Product Introduction

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Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: TP317L
- 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: $\Phi 6$ --630mm
- Section Shape: Round
- Package: Seaworthy Standard Package
- Price Terms: FOB, CIF, CFR, EXW
- Length: 1-12m
- Technique: Hot Rolling
- Wall Thickness: 1-40mm
- Highlight: **A312 Stainless Steel Pipe,
Thick Wall Stainless Seamless Steel Pipe,
TP317L Stainless Steel Pipe**



Product Description

Characteristic

Stainless 317 L has a high tensile and creep strength at elevated temperatures. Due to its excellent corrosion resistance it has been used in handling many of the chemicals used by the chemical process industries. It has a superior corrosion resistance in special applications where it is desired to reduce contamination to a minimum. 317L was developed primarily to resist more effectively the attack of sulfurous acid compounds. However, its proven ability to combat corrosion has widened its use considerably and is now being used for many other industrial applications. The low carbon content of 317L provides immunity to intergranular corrosion in applications where heavy cross sections cannot be annealed after welding or where low temperature stress relieving treatments are desired.

General Features

- 1.A molybdenum bearing austenitic chromium nickel steel with an alloy content somewhat higher than the 316 grades.
- 2.Superior corrosion resistance in difficult environments.
- 3.Higher creep, stress-to-rupture and tensile strengths than other stainless steels.
- 4.Reduced intergranular precipitation of chromium carbides during welding and stress relieving as well as minimized possibility of corrosion failure from intergranular attack due to low carbon content.
- 5.Resistance to pitting and crevice corrosion making 317L a successful life-cost product in a variety of highly corrosive environments.

TP317L stainless steel is widely used in the following applications:

- 1) Chemical
- 2) Petrochemical
- 3) Fertilizer
- 4) Power generation
- 5) Food processing
- 6) Water supply systems
- 7)Medical instruments
- 8)Pulp and Paper

TP317L Stainless Pipe Chemical Composition

N	0.10
C	0.03
Mn	2
P	0.045
S	0.03
Si	0.75
Cr	18.0-20.0
Ni	11-15
Mo	3.0-4.0

Mechanical Properties Stainless Steel TP317L

Material	Ultimate Tensile Strength(Mpa)	0.2%Yield Strength (Mpa)	%Elongation in2"	Rockwell B Hardness
TP317 L	515	205	40	95

Physical properties

Property	Value
Electrical Resistivity	475 Ohms (circ mil./ft.)
Melting Range	2450-2630 °F
Poisson's Ratio	0.3
.2% Yield Strength	30 ksi
Density	0.285 lb/inch ³
Elongation	40%
Hardness Max, Brinell	75 ksi

317L (1.4438) Heat Treatment

Annealing

The austenitic stainless steel pipe are provided in the mill annealed condition ready for use. Heat treatment may be necessary during or after fabrication to remove the effects of cold forming or to dissolve precipitated chromium carbides resulting from thermal exposures. For the Alloys 316 and 317L the solution anneal is accomplished by heating in the 1900 to 2150°F (1040 to 1175°C) temperature range followed by air cooling or a water quench, depending on section thickness. Cooling should be sufficiently rapid through the 1500 to 800°F (816 to 427°C) range to avoid reprecipitation of chromium carbides and provide optimum corrosion resistance. In every case, the metal should be cooled from the annealing temperature to black heat in less than three minutes.

Forging

The recommended initial temperature range is 2100-2200°F (1150-1205°C) with a finishing range of 1700-1750°F (927-955°C).

Annealing

317LMN and Alloy 317L stainless steels can be annealed in the temperature range 1975-2150°F (1080-1175°C) followed by

an air cool or water quench, depending on thickness. Plates should be annealed between 2100°F (1150°C) and 2150°F (1175°C). The metal should be cooled from the annealing temperature (from red/white to black) in less than three minutes.

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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