



ZHEHENG STEEL

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



## Large Diameter Alloy Seamless Welded Pipes ASTM A335 P5 Material

Our Product Introduction

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### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: API
- Model Number: Alloy pipe
- 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
- Price Terms: FOB, CIF, CFR, EXW
- Length: 1-12m
- Technique: Hot Rolled
- Wall Thickness: 1-40mm
- P5 Used For: Refineries
- Highlight: Alloy Seamless Welded Pipes,  
ASTM A335 Alloy Seamless Pipes,  
P5 Material Alloy Seamless Pipes



## Product Description

### Overview

Alloy steel pipe is a kind of seamless steel pipe, which is made by hot rolling (extrusion, expansion) or cold rolling (drawing). Its performance is much higher than the general seamless steel pipe, because this steel pipe inside containing Cr. Alloy steel pipe is mainly used in high-pressure and high-temperature pipelines and equipment such as power plants, nuclear power, high-pressure boilers, high-temperature superheaters and reheaters. The advantages of alloy steel pipes can be 100% recycled, which is environmental protection and energy saving. ASTM A335 Alloy Pipe is often called as chrome moly pipe because of the chemical contain of Molybdenum (Mo) and Chromium (Cr). ASTM A335 Alloy Pipe is the seamless ferritic Pipe for high temperature service.

### Feature

The A335 pipes has a high level of Chromium and Molybdenum presence in it. While Molybdenum increases the overall strength, resistance, elasticity, hardenability and overall quality, moly ensures that the material is more resistant to softening, restrains the growth of grains and lessens the chances of embrittlement. It is the single additive that is responsible for the increase in high temperature resistance and it also improves the corrosion resistance to steel

### Application

Fluid Pipe, Boiler Pipe, Drill Pipe, Hydraulic Pipe, Gas Pipe, OIL PIPE, Chemical Fertilizer Pipe, Structure Pipe

### Chemical Composition

Grade	C≤	Mn	P≤	S≤	Si≤	Cr	Mo
P5	0.15	0.30-0.60	0.025	0.025	0.5	4.00-6.00	0.44-0.65

### Mechanical Properties

Mechanical properties	Tensile, min, ksi[MPa]	Yield, min, ksi[MPa]	Elongation, %(min)	Hardness, HB(max)
P5	60[415]	30[205]	30	-

### Elongation

For wall thickness 5/16 in [8mm] and over:

Elongation in 2 in or 50mm or 4D minimum%: Longitudinal 30% and Transverse 20%.

Elongation smaller 2 in or 50mm or 4D minimum%: Longitudinal 22% and Transverse 14%.

For strip tests a deduction of each 0.8mm below 8mm shall be calculated as below:

8mm, Longitudinal 30%, Transverse 20%;

7.2mm, 28% & 19%;

6.4mm, 27% & 18%;

5.6mm, 26% & 18%.

### Test

Tensile tests: Transverse and Longitudinal

Flattening test of ASTM A999/A999M

Hardness test not exceeding 250 HBW/265 HV30 [25HRC]

Bend Test shall be carried as per ASTM A370

Hydrostatic Test is required, depending on the buyer's decision both Hydrostatic test and a nondestructive test could be carried out.

### Heat Treatment

ASTM A335 P5 shall be heat treated with full or isothermal anneal or normalize and temper or subcritical anneal, temperature 675°C

### Heat Resistance

A335 Grade P5 is known for its remarkable heat-resistant qualities, making it an ideal material for high-temperature applications. It offers superior properties compared to conventionally used materials such as carbon steel, providing significantly more efficient thermal management in the long run. It also exhibits good toughness and fatigue resistance characteristics, good creep strength, and excellent structural stability, making it a popular choice for numerous engineering projects. With its combination of corrosion, abrasion and impact resistance qualities, grade P5 alloys can be applied in various challenging environments. This gives engineers enhanced flexibility to create unique designs that excel in even the harshest conditions.

### 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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