



ZHEHENG STEEL

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



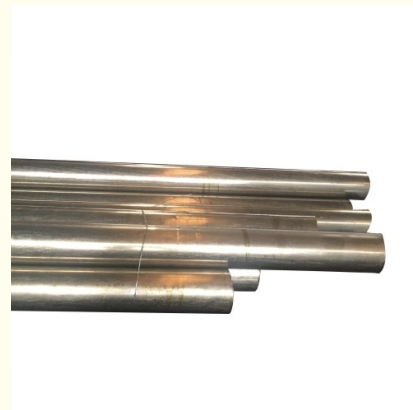
ASTM Seamless Stainless Pipe L245 L360 A53 API 5L Gr.B/X42/X46 For Oil Gas Field

Our Product Introduction

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Basic Information

- Place of Origin: Wenzhou,China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: API 5L Gr.B/X42/X46
- 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: 200mm
- Section Shape: Round
- Package: Seaworthy Standard Package
- Price Terms: FOB,CIF,CFR,EXW
- Length: 1-12m
- Technique: Cold Drawn Or Hot Rolled
- Wall Thickness: SCH5S-160
- Field: Fluid Pipe, Drill Pipe, Gas Pipe, Oil Pipe
- Highlight: **ASTM Seamless Stainless Pipe,
A53 Seamless Stainless Pipe,
API 5L Stainless Seamless Pipe**



Product Description

Introduction

API 5L Grade B Seamless Pipe are typically used in the transportation of various fluids and gases. For instance, the specified API 5L Grade B Carbon Steel Pipe is generally used in applications involving industries such as petroleum, petrochemical, as well as the natural gas industries. One such instance, where the API 5L Grade B PSL1 Material proves to be particularly useful is when they are used in sour wells. Schedule 40 Grade B Pipe tend to be well suited for use in sour service, because the API 5L Grade B Erw Pipe has the ability to resist sulphide stress related cracking. Usually in sour service wells, conventionally used carbon steel pipes are susceptible to cracking, due to deposition of Hydrogen sulphide on the inner layer of these pipes. Hydrogen sulphide, deposited on the inner walls of the API 5L Grade B Pipe makes steel pipes brittle. Since hydrogen sulphide gas reacts with water, as a result of which the free hydrogen molecule gets deposited in the inner walls of conventional steel pipes, thereby leaving it brittle. Addition of elements such as, Molybdenum and chromium can raise the resistance levels of the API 5L Gr B Pipe to both cracking and corrosion as well.

API 5L X42 pipe (L290 pipe) is labeled by its minimum yield strength, 42100 Psi or 290 Mpa. It is a greater category than Grade B and is a low-medium grade pipe.

API 5L X46 Pipe is a carbon steel pipe that is meticulously constructed under API (AMERICAN PETROLEUM INSTITUTE) specifications to satisfy the needs of the client. X46 is a steel grade in the API 5L standard for steel pipes used in the petroleum and natural gas industries. The steel grade is determined by the yield strength of the steel pipe, as well as the manufacturing process. The X46 steel grade is composed of carbon, manganese, phosphorus, sulfur, silicon, and copper. The manufacturing process for X46 steel pipes includes hot rolling, cold drawing, and heat treatment. The hot rolling process helps to improve the ductility of the steel pipes, while the cold drawing process helps to improve the yield strength. The heat treatment process helps to improve the toughness of the steel pipes.

Application of X42

The range of applications for API 5L X42 pipe is wide and varied in range. Devices and industries that use these pipes include oil refineries, pressure vessels, power generators, sugar production, boiler appliances, steel trades, and fluid and gas transmission pipes.

Application of X46

API 5L X46 line pipe is a petroleum-transporting pipeline used onshore and offshore. The steel line pipe is widely used in the petroleum industry to transport oil and natural gas from the ground to refineries and other processing facilities. It is also used in the construction industry to transport water and other fluids.

Chemical Composition

	C	Mn	P	S	Cu	Ni	Cr	Mo	V	Ti	Nb
API 5L B	0.28	1.2	0.03	0.03	0.5	0.5	0.5	0.15	c,d	c,d	d
API 5L X42	0.28	1.3	0.03	0.03	-	-	-	-	d	d	d
API 5L X46	0.28	1.4	0.03	0.03	-	-	-	-	d	d	d

API 5L B Mechanical Properties

	Tensile strength Ksi (Mpa),min	Yield strength Ksi (Mpa),min	Elongation(%)
API 5L B	60000[415]	35000[240]	e=625000[1940]A0.2 /U0.9or referring to standard

API 5L X42 Mechanical Properties

Pipe Type	Seamless and Welded Pipe Bodies		
	Yield Strength a (Minimum)	Tensile Strength a (Minimum)	Elongation (Minimum)
	Rt0.5	Rm	Af
	MPa	MPa	%
L290 or X42	290 (42,100 psi)	415 (60,200 psi)	c

API 5L X46 Mechanical Properties

Pipe Grade	Tensile Properties – Pipe Body of SMLS and Welded Pipes PSL 1		
	Yield Strength a	Tensile Strength a	Elongation
	Rt0,5 PSI Min	Rm PSI Min	(in 2in Af % min)
X46	46,400	63,100	c

Image



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☎ 15858820108

✉ sales@zhehengsteel.com

🌐 stainless-steelseamlesspipe.com

No999 .wenzhou airport wenzhou city,zhejiang china