

API5L L245 PSL1 A106-B/SA106B A53-B/SA53-B Seamless/Welded Carbon Steel Pipes, API 5L Grade B Pipes

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Kasugai
- Certification: API 5L ASTM A106-B/SA106B A53-B/SA53-B
- Model Number: API 5L, PSL-1, Grade B And L245
- Minimum Order Quantity: 1 ton
- Price: To be negotiated
- Packaging Details: Seaworthy packaging
- Delivery Time: 30-60 days
- Payment Terms: ,T/T,D/P,L/C
- Supply Ability: 500 tons per month



Product Specification

- Type: Seamless, Welded, ERW, L-SAW Construction
- Size: 1/2" To 24", *size Above 24" NPS Can Be Arranged On Request
- Schedule: SCH10, SCH 40, SCH 80, SCH 160 To SCH XXS As Per Thickness Mention In API 5L.
- Range Of Length: SRL, DRL, 20FT, 40FT
- Ends: Plain, Beveled, Threaded
- Coating Available: FBE, 3PE/3LPE, Black Painting, Varnished, Anti-rust Oil, Galvanized, CRA, CWC



More Images



for more products please visit us on flangespipefittings.com

Product Description

API 5L L245 PSL1 A106-B/SA106B A53-B/SA53-B Seamless/Welded Carbon Steel Pipes, API 5L Grade B Pipes are engineered to meet the demanding requirements of the oil, gas, and petrochemical industries.

API 5L Grade B pipe is a common grade pipe for oil and gas pipeline transmissions. It is also called L245 Pipe, referring to ISO 3183, named by minimum yield strength 245 MPa (35,500 Psi). Equivalent material ASTM A106 B or ASTM A53 B, which have similar value on chemical composition, mechanical properties, and applications.

API 5L B covers PSL1, PSL2, Sour Services, for onshore and offshore pipelines. Manufacturing types including seamless and welded.

Key Features & Benefits

Key Features:

Material Standards: Complies with API 5L, ASTM A106-B, ASTM A53-B, and L245 PSL1 specifications.

High Pressure & Temperature Resistance: Suitable for pipelines in challenging environments.

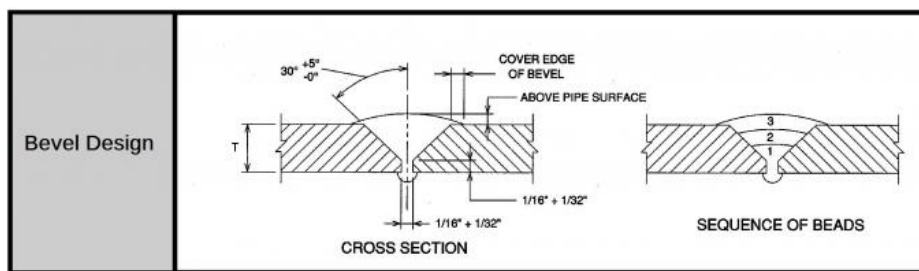
Precision Dimensions: Available in various outer diameters, wall thicknesses, and lengths to suit project requirements.

Corrosion Resistance: Offers reliable performance in both onshore and offshore applications.

Versatility: Ideal for pipeline networks, power plants, and industrial facilities.

Ends design:

1) **Bevel** the welding ends to an angle of 30° , $+5^\circ$, -0° , with a root face of $1/16"$, $\pm 1/32"$. The bevel shall form a V groove with an included angle of $60^\circ \pm 10^\circ$. The root opening shall be $1/16"$, $\pm 1/32"$ according to ANSI B16.25.



2) **Plain or straight ends.**

3) **Threaded ends** with coupling or without coupling according to API Spec. 5B.

Application:

- Oil & Gas Transmission
- Petrochemical & Refinery Systems
- Power Generation
- Water and Sewage Systems
- Structural & Mechanical Applications
- Offshore & Marine Engineering

Technical Specification

ASTM A53 seamless steel pipe chemical composition:

Grade	Chemical Composition (%) Max.								
	C	Mn	P	S	Cu	Ni	Cr	Mo	V
A	0.25	0.95	0.05	0.045	0.40	0.40	0.40	0.15	0.08
B	0.30	1.20	0.05	0.045	0.40	0.40	0.40	0.15	0.08

ASTM A53 seamless steel pipe mechanical properties:

Grade	Mechanical Properties	
	Tensile Strength (Mpa)	Yield Strength (Mpa)
A	≥48,000 (≥330)	≥30,000 (≥205)
B	≥60,000 (≥415)	≥35,000 (≥240)

API 5L ASTM A53 Standard Specification:

NCH	OD (MM)	API 5L ASTM A53 Standard Wall Thickness						
		SCH 10	SCH 20	SCH 40	SCH 60	SCH 80	SCH 100	SCH 160
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1/4"	13.7			2.24		3.02		
3/8"	17.1			2.31		3.2		
1/2"	21.3	2.11		2.77		3.73		4.78
3/4"	26.7	2.11		2.87		3.91		5.56
1"	33.4	2.77		3.38		4.55		6.35
1-1/4"	42.2	2.77		3.56		4.85		6.35
1-1/2"	48.3	2.77		3.68		5.08		7.14
2"	60.3	2.77		3.91		5.54		8.74
2-1/2"	73	3.05		5.16		7.01		9.53
3"	88.9	3.05		5.49		7.62		11.13
3-1/2"	101.6	3.05		5.74		8.08		
4"	114.3	3.05	4.50	6.02		8.56		13.49
5"	141.3	3.4		6.55		9.53		15.88
6"	168.3	3.4		7.11		10.97		18.26
8"	219.1	3.76	6.35	8.18	10.31	12.70	15.09	23.01
10"	273	4.19	6.35	9.27	12.7	15.09	18.26	28.58
12"	323.8	4.57	6.35	10.31	14.27	17.48	21.44	33.32
14"	355	6.35	7.92	11.13	15.09	19.05	23.83	36.71
16"	406	6.35	7.92	12.70	16.66	21.44	26.19	40.49
18"	457	6.35	7.92	14.27	19.05	23.83	29.36	46.24
20"	508	6.35	9.53	15.09	20.62	26.19	32.54	50.01
22"	559	6.35	9.53		22.23	28.58	34.93	54.98
24"	610	6.35	9.53	17.48	24.61	30.96	38.89	59.54
26"	660	7.92	12.7					

Frequently Asked Questions (FAQ)

Q1: Are API5L/L245 PSL1 A106-B/SA106B A53-B/SA53-B pipes seamless or welded?

A: Yes, they are unequivocally **seamless**. The inclusion of the **ASTM A106/ASME SA106B** standard is the definitive indicator, as this standard exclusively covers seamless carbon steel pipe for high-temperature service.

Q2: What is the main difference between API 5L and ASTM A106?

A: **API 5L** is a specification focused on the transportation of oil, gas, and water in pipeline systems. **ASTM A106** is designed for piping systems that operate at high temperatures (typically above 750°F / 400°C). A pipe meeting both standards is exceptionally versatile for interconnected systems.

Q3: Can I use this pipe for high-pressure steam service?

A: Absolutely. The compliance with **ASTM A106/SA106B Grade B** makes these **seamless steel pipes** an excellent and commonly used choice for high-pressure steam and other high-temperature fluid conveyance.

Q4: What does the "PSL1" in API5L L245 PSL1 mean?

A: PSL stands for "Product Specification Level." PSL1 defines the standard mandatory requirements for chemical composition, mechanical properties, and testing. PSL2 has more stringent requirements (e.g., tougher impact testing). PSL1 is suitable for the vast majority of general pipeline applications.

Kasugai Group supply pipe fittings, steel pipes and flanges products for 100 years. If you want to know more about our piping products, please email us: zhangying@kasugai-group.co.jp



Kasugai Shanghai Co., Ltd.



+8109093329324



zhangying@kasugai-group.co.jp



flangespipefittings.com

Rm.8415, Bldg. A8, No. 808 Hongqiao Road, Xuhui District, Shanghai 200030, China