

# . API 5L X65 PSL 2 Pipe Specification

## [API 5L X65 PSL 2 Pipe Dimensions Table](#)

<b>Trade Name</b>	API 5L X65 PSL 2 Pipe
<b>Weld Alternatives:</b>	ERW, HF, DSAW/SAWL, SMLS, HSAW
<b>OD Size Range:</b>	ERW: 0.375" through 30"
	HF: 0.840" through 24"
	DSAW/SAWL: 12.75" through 144" SMLS: 0.840" through 26"
	HSAW: 8.625" through 144"
<b>Wall Ranges:</b>	ERW: 0.120" through 1.000"
	HF: 0.120" through 1.000"
	DSAW/SAWL: 0.250" through 6.000"

SMLS: 0.250" through 2.500"

HSAW: 0.250" through 1.000" Lengths: Single Random

Double Random

Custom (up to 300') Grade: ASTM A53, ASTM A106, ASTM A179, ASTM A192, ST35.8, ST37, ST42, ST52, E235, E355, S235JRH, S275JR, S355J0H, P235TR1, 10#, 20#, 45#, Q235, Q345 Schedule: SCH5 SCH10 SCH20 SCH30 SCH40 SCH80 SCH120 SCH140 SCH160 SCHXS SCHXXS Surface Finishes: Bare, Oiled, Mill Varnish, Galv, FBE, FBE Dual, 3LPE, 3LPP, Coal Tar, Concrete Coating and Tape Wrap. End Finishes: Beveled, Square Cut, Threaded & Coupled. **Additional Services:** Internal Coating for more details you can visit [www.rexaltubes.com](http://www.rexaltubes.com)

### API 5L X65

### (PSL2)

Minimum Yield Strength:	65,300 psi
Maximum Yield Strength:	87,000 psi
Minimum Tensile Strength:	77,600 psi
Maximum Tensile Strength:	110,200 psi

Notes: This is a standard line pipe grade specified in API (American Petroleum Institute) specification 5L.

API 5L X65 Industry Specifications	Chemical Composition	Yield Strength min. (KSI)	Tensile Strength min. (KSI)	Yield to Tensile Ratio (max)	Elongation %
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**ASTM** A105, A106,  
A234, A333, A350,  
A420, A694,A860

**C** 0.16  
**Si** 0.45  
**Mn** 1.65  
**P** 0.020  
**S** 0.010  
**V** 0.09  
**Nb** 0.05  
**Ti** 0.06

65770.9318

**API 5L X65**

Grade X65 indicates 65000 PSI minimum yield strength and 77000 PSI minimum ultimate tensile strength.

**API Standard Specification for Line Pipe**

The American Petroleum Institute specification API 5L addresses seamless and welded steel line pipe for pipeline transportation systems in the petroleum and natural gas industries. API 5L is suitable for conveying gas, water, and oil.

<b>Grade B</b>	<b>(ASTM A53, A106, A523)</b>	<b>(API 5LR)</b>	<b>(API 5L PSL2)</b>
Minimum Yield Strength:	35,000 psi	35,500	35,000 psi
Maximum Yield Strength:	None		65,000 psi
Minimum Tensile Strength:	60,000 psi	60,200	60,000 psi
Maximum Tensile Strength:	None		110,000 psi

Notes: This grade may be used for standard pipe, line pipe or conduit pipe as specified in the various ASTM and API specifications

**Inspection & Approval Certificates** : EN10204 3.1 / DIN 50049 3.1 / ISO 10474 3.1 Mill Test Certificate, NACE MR-0175 / ISO 15156, NACE MR-01-03 / NACE MR-01-75 / ISO 15156, CE Marked, European Pressure Equipment Directive PED-97/23/EC, AD-2000-W0, ASME Boiler & Pressure Vessel Code Sec.II Part A Ed. 2008, with 3.2 certificate duly Certified & Approved by LRS (Lloyd’s Register), GL (Germanischer Lloyd), BV (Bureau Veritas), DNV (Det Norske Veritas), ABS (American Bureau of Shipping), SGS, TUV, RINA, IRS, NORSOK Approved Standard M-630, M-650 Rev.3

**CHEMICAL COMPOSITION**

**Mass fraction, based upon heat and product analysis % maximum**

**CARBON EQUIVALENT a**  
**% MAXIMUM**

**Cb Si Mnb P S V Nb Ti Other CEIIW CEPcm**

**SEAMLESS & WELDED PIPES**

L450Q or X65Q 0.18f 0.45f 1.7f 0.025 0.015 g g g h 0.43 0.25

**WELDED PIPE**

L450M OR X65M 0.12f 0.45f 1.6f 0.025 0.015 g g g h 0.43 0.25

**MECHANICAL REQUIREMENTS**

<b>Y.S</b>	<b>T.S</b>	<b>ELONGATION</b>
Mpa(psi)	Mpa(psi)	
min	min	min
450(65 300)	600(87 000)	23%

**IMPACT TEST**

<b>AVG. ABSORBED ENERGY</b>	<b>IND. ABSORBED ENERGY</b>
Min.(joules)	Min.(joules)
27	20

- Unless otherwise agreed, the sum of th niobium & vanadum concentrations shall be = 0.06%
- Unless otherwise agreed, 0.50% maximum for copper, 0.30% maximum for nickel, 0.30% maximum for chromium, & 0.15% maximum for molybdenum.
- The sum of th niobium & vanadum & titanium concentrations shall be =0.15%
- Unless otherwise agreed, 0.50% maximum for copper, 0.30% maximum for nickel, 0.30% maximum for chromium, & 0.15% maximum for molybdenum.
- Unless otherwise agreed g unless otheriwse agreed the sum of th niobium & vanadum & titanium concentrations shall be =0.15%

**. API 5L X65 PSL 2 Pipe Price**

- [ASTM A53 /API 5L GR.B/X42/X65/X70 PSL1 PSL 2 carbon steel welded pipe](#)  
US \$600-1000 / Ton (FOB Price)
- [carbon steel API 5 L X 52 psl 1 pipe](#)  
US \$700-850 / Ton (FOB Price)
- [API 5L PIPE X 65 PSL 2 STEEL PIPE LINE MANUFACTURES](#)

- US \$500-1000 / Metric Ton (FOB Price)
  - [api 5 l x 65 psl 1 pipe](#)
- US \$560-730 / Metric Ton (FOB Price)
  - [pipe api 5l gr x 65 psl 2 carbon steel seamless](#)
- US \$565-730 / Ton (FOB Price)
  - [API 5L Gr.B PSL-1 and PSL-2 seamless and ERW steel pipe](#)
- US \$500-6000 / Ton (FOB Price)
  - [CARBON STEEL SUBMERGED ARC WELDED PIPE API 5L GR. 60 / 65 PSL 2](#)
- US \$660-750 / Ton (FOB Price)
  - [CARBON STEEL LSAW PIPE API 5L GR. 60 / 65 PSL 2](#)
- US \$1000-2000 / Meter (FOB Price)
  - [line pipe API 5 L PSL 1 X 70](#)
- US \$650-1000 / Ton (FOB Price)
  - [API 5L Gr.B PSL1/PSL 2 carbon seamless steel pipes/tubes with high quality](#)
- US \$550-1050 / Ton (FOB Price)
  - [API 5L PSL 2 Gr.B line pipe](#)
- US \$550-1000 / Ton (FOB Price)
  - [line pipe API 5L PSL 2 Gr.B](#)
- US \$980-1028 / Ton (FOB Price)
  - [CARBON STEEL SEAMLESS PIPE API 5L GR X60 PSL 2](#)
- US \$600-900 / Metric Ton (FOB Price)
  - [cold drawn carbon steel pipe api 5l gr x65 psl 2](#)
- US \$500-950 / Ton (FOB Price)
  - [API 5L A106 Gr.B PSL 2 seamless steel pipe](#)
- US \$500-750 / Metric Ton (FOB Price)
  - [api 5l gr.b psl 2 lsaw pipeline](#)
- US \$560-730 / Metric Ton (FOB Price)
  - [sch60 pipe api 5l gr.b x52 psl 2 carbon steel pipe](#)
- US \$400-800 / Ton (FOB Price)
  - [High Quality – ASTM A53 /API 5L GR.B/X42/X70 PSL1 PSL 2 welded steel pipe/saw pipe api 5l gr x52 psl 2](#)
- US \$750-1500 / Ton (FOB Price)
  - [API 5L PSL 2 X80 1.5D LR carbon steel pipe bend, factory bends](#)
- US \$10-1000 / Piece (FOB Price)
  - [API 5L PSL 2 LSAW welded pipe 48"x 25.4mm Gaspipe](#)
- US \$350-450 / Ton (FOB Price)