

## API5L 45th Edition Specification for Line Pipe

### Scope

Specified the manufacture of two product levels (PSL1 and PSL2) of seamless and welded steel pipe for the use of a pipeline in the transportation of petroleum and natural gas. For material use in a Sour service application refer to Annex H and for offshore service application refer to Annex J of API5L 45<sup>th</sup>.

### Delivery Condition

PSL	Delivery Condition	Pipe grade
PSL1	As-rolled, normalized, normalizing formed	A
	As-rolled, normalizing rolled, thermomechanical rolled, thermomechanical formed, normalizing formed, normalized, normalized and tempered or if agreed Q&T SMLS only	B
	As-rolled, normalizing rolled, thermomechanical rolled, thermomechanical formed, normalizing formed, normalized, normalized and tempered	X42, X46, X52, X56, X60, X65, X70
PSL 2	As-rolled	BR, X42R
	Normalizing rolled, normalizing formed, normalized or normalized and tempered	BN, X42N, X46N, X52N, X56N, X60N
	Quenched and tempered	BQ, X42Q, X46Q, X56Q, X60Q, X65Q, X70Q, X80Q, X90Q, X100Q
	Thermomechanical rolled or thermomechanical formed	BM, X42M, X46M, X56M, X60M, X65M, X70M, X80M
	Thermomechanical rolled	X90M, X100M, X120M

The suffix (R, N, Q or M) for PSL2 grades, belongs to the steel grade

### Ordering Information

The purchase order shall include the quantity, PSL level, type or Grade, reference to API5L, outside diameter, wall thickness, length and any applicable annexes or additional requirements related to chemical composition, mechanical properties, heat treatment, additional testing, manufacturing process, surface coatings or end finish.

### Typical process of manufacturing

Type of Pipe	PSL 1			PSL 2	
	Grade A	Grade B	X42 to X70	B to X80	X80 to X100
SMLS	✓	✓	✓	✓	✓
LPW	✓	✓	✓		
HPW	✓	✓	✓	✓	
LW			✓		
SAWL	✓	✓	✓	✓	✓
SAWH	✓	✓	✓	✓	✓

SMLS – Seamless, without weld  
LPW – low frequency welded pipe, <70 kts

# Api Api Spec 5l 45th Edition Specification For Line Pipe

**Wenbin Ji**



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