

# HOT - FINISHED SEAMLESS LINE PIPE



## Chemical composition API 5L (PSL1)

GRADE	C	Mn	S	P
B	0.20%	1.05%	0.030%	0.030%
X42	0.20%	1.05%	0.030%	0.030%
X52	0.20%	1.40%	0.030%	0.030%

Seamless line pipe is produced to comply with the specifications API 5L PSL1 and PSL2, ASTM A106 and ASTM A53.

### Steel Grades

Three basic steel grades are used for the production of the different grades of material in the API 5L specification. The main chemical elements will comply with the maximum limits alongside.

## Chemical composition API 5L (PSL2)

GRADE	C	Mn	S	P
B	0.20%	1.05%	0.015%	0.025%
X42	0.20%	1.05%	0.015%	0.025%
X52	0.20%	1.40%	0.015%	0.025%

Stricter requirements on chemical composition are often applied at customer's request.

## Dimensional tolerances

CRITERIA	MINUS	PLUS
OD Body	0.75% of nominal	0.75% of nominal
OD Ends	0.4mm	1.59mm
Wall thickness	12.5% of nominal	15% of nominal
Length, cutting tolerance	0mm	50mm
Mass, per carload	3.5%	6.5%
Mass, per tube	1.75%	-

The dimensional tolerances used are in strict accordance with the API 5L specification.

## Mechanical properties

GRADE	UTS	SMYS	% ELONG
	MPa	MPa	In 50mm
B	415 min	241 min	To formula in API 5L
X42	415 min	289 min	
X52	455 min	358 m	

Line pipe is in accordance with the API 5L requirement for mechanical properties.