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# API 5L Gr.B PSL 1 – PSL 2 Seamless Pipes



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## Introduction

**Victor Steel Corporation** is a prominent name in manufacturing and exporting of high quality of API & Carbon Steel Seamless Pipes & Tubes in India. Victor Steel Corporation offers a commendable range of **API & API 5L Gr.B PSL 1 – PSL 2 Seamless Pipes** & Tubes for the prestigious clients with competitive price, we at Victor Steel Corporation have the manufacturing capability & production flexibility to respond to the most dynamic & complex needs of our customers

## API 5L Gr.B PSL 1 Seamless Pipes



## Specifications :

CHEMICAL COMPOSITION						
Mass fraction, based upon heat and product analysis a						
SEAMLESS PIPE						
C	Mn	P	S	V	Nb	Ti
maxb	max.b	max.	max.	max.	max.	max.
0.28	1.20	0.030	0.030	c,d	c,d	d
WELDED PIPE						
0.26	1.20	0.030	0.030	c,d	c,d	d

**a** 0.50% maximum for copper, 0.50% maximum for nickel, 0.50% maximum for chromium, and 0.15% maximum for molybdenum.

**b** For each reduction of 0.01% below the specified maximum concentration for carbon, an increase of 0.05% above the specified maximum concentration for manganese is permissible, up to a maximum of 1.65%

**c** unless otherwise agreed, the sum of the niobium and vanadium contents shall be  $\leq 0.06\%$ .

**d** The sum of the niobium, vanadium and titanium concentrations shall be  $\leq 0.06\%$ .

**e** Unless otherwise agreed.

**f** unless otherwise agreed, the sum of niobium, vanadium and titanium concentrations shall be  $\leq 0.15\%$

MECHANICAL REQUIREMENTS			
Y.S	T.S	ELONGATION	
Mpa(psi)	Mpa(psi)	min	
min	min	min	
245(35 500)	415(60 200)	28%	

## API 5L Gr.B PSL 2 Seamless Pipes

CHEMICAL COMPOSITION											
Mass fraction, based upon heat and product analysis % maximum										CARBON EQUIVALENT a	
										% MAXIMUM	
Cb	Si	Mnb	P	S	V	Nb	Ti	Other	CE <sub>IW</sub>	CEP <sub>cm</sub>	
SEAMLESS & WELDED PIPES											
L245R OR BR	0.24	0.4	1.2	0.025	0.015	c	c	0.04	e	0.43	0.25
L245Q OR BQ	0.18	0.45	1.4	0.025	0.015	0.05	0.05	0.04	e	0.43	0.25
WELDED PIPE											
L245M OR BM	0.22	0.45	1.2	0.025	0.015	0.05	0.05	0.04	e	0.43	0.25

**a** unless otherwise agreed, the sum of the niobium & vanadium concentrations shall be  $= 0.06\%$

**b** Unless otherwise agreed, 0.50% maximum for copper, 0.30% maximum for nickel, 0.30% maximum for

chromium, & 0.15% maximum for molybdenum.

MECHANICAL REQUIREMENTS		
Y.S	T.S	ELONGATION
Mpa(psi)	Mpa(psi)	
min	min	min
245(35 500)	450(50 300)	f

f The specified minimum elongation,  $A_f$ , shall be as determined using the following equation:

$$A_f = C \frac{A_{xc}^{0,2}}{U^{0,9}}$$

IMPACT TEST	
AVG. ABSORBED ENERGY	IND. ABSORBED ENERGY
Min.(joules)	Min.(joules)
27	20

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## CONTACT US

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