

API 5L Grade B Welded Pipe (ERW, LSAW, SSAW, COW)
 Chemical Composition and Mechanical Properties

Chemical composition				
Steel Grade (Steel name)	Chemical composition with $t \leq 25.0$ mm (0.984 in)			
	Mass fraction, based upon heat and product analyses			
	%			
	C	Mn	P	S
	max	max	max	max
PSL 1 pipe with $t \leq 25.0$ mm (0.984 in)				
B	0.26	1.20	0.030	0.030
PSL 2 pipe with $t \leq 25.0$ mm (0.984 in)				
BR	0.24	1.20	0.025	0.015
BN	0.24	1.20	0.025	0.015
BQ	0.18	1.40	0.025	0.015
BM	0.22	1.20	0.025	0.015

Mechanical Properties						
Pipe grade	Pipe body of welded pipes				Weld seam of EW, LW, SAW and COW pipes	
	Yield strength		Tensile strength			Tensile
	MPa (psi)		MPa (psi)			
PSL 1 pipe					415 (60 200)	
B	minnimum		minnimum			
	245 (35 500)		415 (60 200)			
PSL 2 pipe					415 (60 200)	
BR	minnimum	maximum	minnimum	maximum		
BN	245 (35 500)	450 (65 300)	415 (60 200)	655 (95 000)		