

API 5L Grade X52 Pipe  
 Chemical Composition and Mechanical Properties

Chemical Composition				
Steel grade (Steel name)	Mass fraction, based upon heat and product analyses			
	%			
	C	Mn	P	S
	max	max	max	max
PSL 1 pipe with t ≤ 25.0 mm (0.984 in)				
Seamless pipe				
X52	0.28	1.40	0.030	0.030
Welded pipe				
X52	0.26	1.40	0.030	0.030
PSL 2 pipe with t ≤ 25.0 mm (0.984 in)				
Seamless pipe				
X52Q	0.18	1.50	0.025	0.015
Welded pipe				
X52M	0.22	1.40	0.025	0.015

Mechanical Properties					
Pipe grade	Pipe body of seamless and welded pipes				Weld seam of EW, LW, SAW and COW pipes
	Yield strength		Tensile strength		
	MPa (psi)		MPa (psi)		
PSL 1 pipe					
X52	<b>minimum</b>		<b>minimum</b>		460 (66 700)
	360 (52 200)		460 (66 700)		
PSL 2 pipe					
X52N	minimum	maximum	minimum	maximum	
X52Q	360 (52 200)	530 (76 900)	460 (66 700)	760 (110 200)	

For more info please visit <https://www.octalsteel.com/resources/api-5l-x52-psl2-pipe>