

API 5L Grade X60 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				
X60	0.28	1.40	0.030	0.030
Welded pipe				
X60	0.26	1.45	0.030	0.030
PSL 2 pipe with t ≤ 25.0 mm (0.984 in)				
Seamless pipe				
X60Q	0.18	1.70	0.025	0.015
Welded pipe				
X60M	0.12	1.60	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)		Tensile strength
					MPa (psi), min
API 5L X60 PSL 1 pipe					520 (75 400)
X60	minimum		minimum		
	415 (60 200)		520 (75 400)		
API 5L X60 PSL 2 pipe					
X60N	minimum	maximum	minimum	maximum	
X60Q	415 (60 200)	565(81 900)	520 (75 400)	760 (110 200)	