

## ASTM Standards - Pressure Vessels Plates

No.	Title	Grade	Chemical Composition %					Treatment <sup>5)</sup>	
			(maxima unless stated)						
			C	Si	Mn	P	S		
A285 - 90	Pressure vessel plates, carbon steel, low and intermediate tensile strength	A	0.17	-	0.90	0.035	0.035	-	
		B	0.22						
		C	0.28						
A515 - 90	Pressure vessel plates, carbon steel, for intermediate and higher temperature service	55	0.20	0.15/0.40	0.90	0.035	0.035	HR	
			0.22					N	
			0.24						
			0.26						
			0.28						
		60	0.24	0.15/0.40	0.90	0.035	0.035	HR	
			0.27					N	
			0.29						
			0.31						
			0.31						
		65	0.28	0.15/0.40	0.90	0.035	0.035	HR	
			0.31					N	
			0.33						
			0.33						
			0.33						
		70	0.31	0.15/0.40	1.20	0.035	0.035	HR	
			0.33					N	
			0.35						
			0.35						
			0.35						
A516 - 90	Pressure vessel plates, carbon steel, for moderate and lower temperature service	55	0.18	0.15/0.40	0.60/0.90 <sup>2)</sup>	0.035	0.035	HR	
			0.20					HR or N <sup>3)</sup>	
			0.22					N	
			0.24						
			0.26						
		60	0.21	0.15/0.40	0.60/0.90 <sup>2)</sup>	0.035	0.035	HR	
			0.23					HR or N <sup>3)</sup>	
			0.25						
			0.27						
			0.27						
		65	0.24	0.15/0.40	0.85/1.20	0.035	0.035	HR	
			0.26					HR or N <sup>3)</sup>	
			0.28						
			0.29						
			0.29						
		70	0.27	0.15/0.40	0.85/1.20	0.035	0.035	HR	
			0.28					HR or N <sup>3)</sup>	
			0.30						
			0.31						
			0.31						
A516 - 90	Pressure vessel plates, carbon steel, for moderate and lower temperature service	55LTV	0.18	0.15/0.40	0.60/0.90 <sup>2)</sup>	0.035	0.035	N	
			0.20						
			0.22						
			0.24						
			0.26						
		60LTV	0.21	0.15/0.40	0.60/0.90 <sup>2)</sup>	0.035	0.035	N	
			0.23						
			0.25						
			0.27						
			0.27						
		65LTV	0.24	0.15/0.40	0.85/1.20	0.035	0.035	N	
			0.26						
			0.28						
			0.29						
			0.29						
		70LTV	0.27	0.15/0.40	0.85/1.20	0.035	0.035	N	
			0.28						
			0.30						
			0.31						
			0.31						