TYPE	TANDAR	GRADE	thickness : t mm.	CHEMICAL COMPOSITION (max)										Tension Test						OTHER TEST
														Yield Point min		Tensile Strength		Elongation min		
				C	Si	Mn	P	S	Cu [1] min	N	Nb	V	OTHER ELEMENTS	thick : t mm.	Kgf / mm² [MPa , N / mm²] (ksi)	thick : t mm.	Kgf / mm² [MPa , N / mm²] (ksi)	thick : t mm.	Transverse	
Pressure Vessel Plates, Carbon Steel for Moderate - and Lower Tempera ture Survice	ASTM A516[4] (2006)	55	t ≤ 12.5	0.18	0.13 - 0.45	0.55- 0.98	0.035	0.035	-	-	-	-	Product Analysis (For heat analysis of Mn and Si see table 1 in ASTM A516/A516M)	t ≤ 100 (The yield strength are determined by either the 0.2% offset method or the 0.5% extension - under-load method)	21 [205] (30)	t ≤ 100	39 - 52 [380 - 515] (55-75)	t ≤ 100 (See specification A20/A20M for elongation adjustment.)	23	Supplementary requirements shall not apply unless specified in the purchase order.
			12.5 < t ≤ 50	0.20		0.55 - 1.30														
			50 < t ≤ 100	0.22																
		60	t ≤ 12.5	0.21		0.79 - 1.30									22.5 [220] (32)		42 - 56 [415 - 550] (60-80)		21	
			12.5 < t ≤ 50	0.23																
			50 < t ≤ 100	0.25																
		65	t ≤ 12.5	0.24											24.5 [240] (35)		46 - 60 [450 - 585] (65-85)		19	
			12.5 < t ≤ 50	0.26																
			50 < t ≤ 100	0.28																
		70	t ≤ 12.5	0.27											26.5 [260] (38)		49 - 63 [485 - 620] (70-90)		17	
			12.5 < t ≤ 50	0.28																
			50 < t ≤ 100	0.30																