TITAN STEEL CORPORATION

Flat Products Made of Steel for Pressure Purposes
Mechanical Properties & Letter Codes Acc. European Standard

NON-ALLOY STEELS WITH SPECIFIED ELEVATED TEMPERATURE PROPERTIES								Rpo.2 Yield Point Values at Elevated Temperature					
EN 10028-2	DIN 17155	ASTM	NF A36-205	BS	UNI	Material	Tensile(Mpa)						
			NF A36-206	1501 P.1	5907	No	Strength	100 deg C	200 deg C	300 deg C	400 deg C	500 deg C	
P235GH	HI	A285 GrA;A515 Gr55; Gr 60; A516 Gr55	A 37AP,CP	151-360; 161-360; 164-360	FeE235	1.0345	360-480	190	170	130	110		
P265GH	HII	A285 GrB;A515 Gr60; A516 Gr60; A662 GrA	A42AP, CP	151-400; 161-400; 164-400	FE410KG; KW; KT	1.0425	410-530	215	195	155	130		
P295GH	17Mn4	A515 Gr70; A516Gr70;A662 GrB	A48AP, CP	224-460	FeE295	1.0481	460-580	250	225	185	155		
P355GH	19Mn6	A299; A455; A515 Gr70; A516 Gr70; A612	A52AP, CP	224-490	FeE355-2	1.0473	510-650	290	255	215	180		Yield Strength (Mpa)
16Mo3	15Mo3	A204 GrA; GrB; Grc	15D3	243B		1.5415	440-590		215	170	150	140	275
13CrMo4-5	13CrMo4-4	A387 Gr11; Gr12	15CD4-05	620; 621		1.7335	440-590		230	205	180	165	300
10CrMo9-10	10CrMo9-10	A387 Gr22	10CD9-10	622 / 515		1.7380	480-630		245	220	200	180	310
11CrMo9-10		A387 Gr22		622 / 690		1.7383	520-670			235	215	195	310
								P = Pressure Vessel Steel					
								G = Unalloyed Steel					
								H = High Operating Temperature					
								Transver	K,(J)	T deg C			
								GH Steel	27	0			
								Others	31	20			