

TOTAL TEP/DDP	PRESSURE VESSELS	SP - TCS - 211
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Table II Selection of materials in relation to design temperatures									
DESIGN TEMPERATURE	+ 427°C to - 196°C	+ 427°C to - 101°C	+ 427°C to - 46°C	+ 427°C to - 29°C	427oC to + 21°C	MAX 468oC	MAX 538oC	MAX 593oC	Greater than 593oC
TYPE OF STEEL	18/8 stainless steel	3.5% Ni	Normalized carbon steel	Carbon steel	Carbon steel	0.5 Mo ----- 1Cr-0.5Mo	1.25 Cr ----- 1.25 Cr 0.5 Mo	2.25 Cr-1 Mo ----- 5 Cr-0.5 Mo	Stainless steel
ROLLED SHEET	A 240 304 A 240 304L A 240 316 A 240 316L A 240 321 A 240 347 -----65 9% Ni -----50 A 353	A 203 Grade D Grade E	A 516 Grade 55 Grade 60 Grade 65 (DT=-40°C For grade th. over mm)	A 516 Grade 55 Grade 60 Grade 65 Grade 70	A 515 Grade 55 Grade 60 Grade 65 Grade 7	A 204 Grades A or B (0.5 Mo) ----- A 387 Grade 12 Classe 1 1Cr-0.5Mo	A 387 Grade 11 Classe 1	A 387 Grade 22 Grade 5 Classe 1	R E F R A C T O R Y
FORGINGS	A 182 F 304 A 182 F 304L A 182 F 316 A 182 F 316L A 182 F 321 A 182 F 34 ----- 9% Ni ----- A 522	A 350 LF 3	A 350 LF 2	A 105	A 181 Grade 1 for 150 lbs & 300 Lbs series ----- 105 for series ----- 300 lbs	A 182 - F1 (0.5 Mo) ----- A 182-F12 1Cr-0.5Mo	A 182 - F11 -----	A 182 - F22 2.25Cr-1Mo ----- A 182 - F5 5Cr-0.5Mo	S T A I N L E S
TUBES	A 312 304 A 312 304L A 312 316 A 312 316 A 312 321 A 312 347 ----- 9% Ni : A 333 Grade 8	A 333 Grade 3	A 333 Grade 6	A 106 Grade B	A 106 Grade B	A 335-P1 (0.5 Mo) ----- A 335-P12 1Cr-0.5Mo	A335 - P1 1 -----	A 335 - P22 2.25Cr-1Mo ----- A 335 - P5 5Cr-0.5Mo	L S
THREADED RODS	A 320 - B8	A320-L7	A320-L7	A193-B7	A193-B7	A193-B16	A193-B16	A193-B5	
NUTS	A194GrB	A194Gr4	A194Gr4	A194Gr2H	A194Gr2H	A194Gr4	A194Gr4	A194Gr3	