Specifications governing Alloy Steel Tubes are as under:

IS 2002-62 STEEL PLATED FOR BOILERS

Designation	Chemical Composition,%				Tensile Test			
	C max.	Si	P max	S max	Tensile Strength Kgf/mm2	Yield Point Kgf/mm2,min.	Elongation Test Piece	Elongation %, min
IS 2002-1	0.18	.010-0.35	0.40	0.40	37-45	55	5.65/So 4/So	26 30
IS 2002-2A	0.20	0.10-0.35	0.050	0.050	42-50	50	5.65/So 4/So	25 29
IS 2002-2b	0.22	0.10-0.35	0.050	0.050	52-62	50	5.65/So 4/So	20 24

Kawasaki Specification [AG] Steel Plates for Galvanizing Pots

Designation	Chemical Composition,%					Tensile Test			Bend test	
	C Max	Si	Mn Max	P Max	S Max	Yield Point Kgf/mm2 Kgf/mm2.(N/mm2)	Tensile Strength	Elongation %, Test Piece	Angle of Bend	Inside Radius
AG	0.09 tr.	0.20-0.40	0.30	0.030		–	–	– –		

ASTM A 285-78 Pressure Vessel Plates, Carbon Steel, Low – and Intermediate- Tensile Strength

Designation	Chemical Composition,%				Tensile Test*1			1. (i) Refer to (1) for ASTM A 203 (ii) Refer to (2) for ASTM A 203
	C max	Mn max	P max	S max	Tensile Strength ksi (MPa),	Yeild Strengh ksi(MPa),min.	Elongation, % min GL=8 in. GL=2 in	
A 285 A	0.17	0.90	0.035	0.040	45-65 (310-450)	24(165)	27 30	
A 285 B	0.22	0.90	0.035	0.040	50-70(385-485)	27(185)	25 28	
A 285 C	0.28	0.90	0.035	0.040	55-75(380-515)	30(205)	23 27	

								(iii) Refer to (4) for AST M A 203.