Electrically Welded Steel Pipe for Water Supply

ท่อเหล็กกล้าเชื่อมด้วยไฟฟ้า สำหรับส่งน้ำ

TIS 427

Class	% Chemical Composition (Max)						Mechanical Properties (Min)		
	C	Si	Mn	P	S	Cu	Yield Strength	Tensile Strength	Elongation
							MPa	MPa	%
Class ก	0.250	-	-	0.040	0.050	0.20	165	310 - 380	27
Class ข	0.250	-	-	0.040	0.050	0.20	205	380 - 450	22
Class ค	0.300	-	-	0.040	0.050	0.20	230	≥415	20

Nominal Size		Outside Diameter	Thickness	Weight (plain end)	Hydrostatic Test Pressure		
mm	inch	mm	mm	kg/m	MPa		
					Class ก	Class ข	Class ค
100	4"	101.6	2.70	6.585	5.26	6.54	7.33
			3.45	8.351	6.72	8.35	9.37
115	4 1/2"	114.3	2.70	7.431	4.68	5.81	6.52
			3.45	9.431	5.98	7.43	8.33
150 A	6"	152.4	2.70	9.970	4.38	5.45	6.11
			3.45	12.67	5.60	6.96	7.81
			4.80	17.47	7.80	9.69	10.87
			5.50	19.93	8.93	11.10	12.45
150	6 5/8"	168.3	2.70	11.03	3.97	4.93	5.53
			3.45	14.03	5.07	6.30	7.07
			4.80	19.35	7.06	8.77	9.84
			5.50	22.08	8.09	10.05	11.27
200 A	8"	203.0	3.45	16.98	4.21	5.23	5.86
			4.50	22.03	5.49	6.82	7.65
			4.80	23.46	5.85	7.27	8.16
			6.00	29.15	7.32	9.09	10.20
200	8 5/8"	219.1	3.45	18.35	3.90	4.84	5.43
			4.50	23.82	5.08	6.32	7.09
			4.80	25.37	5.42	6.74	7.56
			6.00	31.53	6.78	8.42	9.45
250 A	10"	254.0	3.45	21.32	3.81	4.73	5.31
			4.50	27.69	4.97	6.17	6.93
			4.80	29.50	5.30	6.59	7.39
			6.00	36.70	6.63	8.23	9.24
250	10 3/4"	273.0	3.45	22.93	3.54	4.40	4.94
			4.50	29.80	4.62	5.74	6.45
			4.80	31.75	4.93	6.13	6.87
			6.00	39.51	6.16	7.66	8.59
300	12 3/4"	323.9	4.50	35.45	3.90	4.84	5.43
			4.80	37.77	4.16	5.16	5.79
			6.00	47.04	5.20	6.46	7.24
350	14"	355.6	4.80	41.53	3.79	4.70	5.28
			6.00	51.73	4.73	5.88	6.60
400	16"	406.4	4.80	47.54	3.31	4.12	4.62
			6.00	59.25	4.14	5.15	5.77
			6.35	62.65	4.38	5.45	6.11
			7.90	77.64	5.45	6.77	7.60

Dimension Tolerances	Outside Diameter	Thickness
	OD < 500 mm : ±1%	- 0.25 mm , +Not Limit