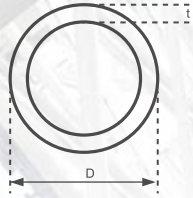




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จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



CARBON STEEL PIPE

เหล็กงานโครงสร้าง

JIS G3444

MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					MECHANICAL PROPERTIES		
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation %
STK 400	0.25	-	-	0.04	0.04	235	400	23
STK 490	0.18	0.55	1.50	0.04	0.04	315	490	23

Nominal Size	Outside Diameter	Thickness	Weight (Plain End)	Cross Sectional Area	Geometrical Moment Of Inertia	Modulus Of Section	Radius Of Gyration
mm	mm	mm	kg/m	cm ²	cm ⁴	cm ³	cm
15	21.70	2.00	0.97	1.238	0.607	0.560	0.700
20	27.2	2.00	1.24	1.583	1.26	0.930	0.890
		2.30	1.41	1.799	1.41	1.03	0.880
25	34.00	2.30	1.80	2.291	2.89	1.70	1.12
32	42.70	2.30	2.29	2.919	5.97	2.80	1.43
		2.50	2.48	3.157	6.40	3.00	1.42
40	48.60	2.30	2.63	3.345	8.99	3.70	1.64
		2.50	2.84	3.621	9.65	3.97	1.63
		2.80	3.16	4.029	10.6	4.36	1.62
		3.20	3.58	4.564	11.8	4.86	1.61
50	60.50	2.30	3.30	4.205	17.8	5.90	2.06
		3.20	4.52	5.76	23.7	7.84	2.03
		4.00	5.57	7.1	28.5	9.41	2.00
65	76.30	2.80	5.08	6.465	43.7	11.5	2.60
		3.20	5.77	7.349	49.2	12.9	2.59
		4.00	7.13	9.085	59.5	15.6	2.58
80	89.10	2.80	5.96	7.591	70.7	15.9	3.05
		3.20	6.78	8.636	79.8	17.9	3.04
90	101.60	3.20	7.76	9.892	120	23.6	3.48
		4.00	9.63	12.26	146	28.8	3.45
		5.00	11.90	15.17	177	34.9	3.42
		6.00	14.17	18.68	213	41.0	3.39
100	114.30	3.20	8.77	11.17	172	30.2	3.93
		3.50	9.58	12.18	187	32.7	3.92
		4.50	12.20	15.52	234	41	3.89
125	139.80	3.60	12.10	15.4	357	51.1	4.82
		4.00	13.40	17.07	394	56.3	4.8
		4.50	15.00	19.13	438	62.7	4.79
		6.00	19.80	25.22	566	80.2	4.74
		7.00	22.70	29.26	663	93.1	4.71
150	165.20	4.50	17.80	22.72	734	88.9	5.68
		5.00	19.80	25.16	808	97.8	5.67
		6.00	23.60	30.01	952	115	5.63
		7.00	27.70	35.26	1100	134	5.6
		8.00	31.80	39.91	1248	151	5.57

Nominal Size	Outside Diameter	Thickness	Weight (plain end)	Cross Sectional Area	Geometrical moment of inertia	Modulus of section	Radius of gyration
mm	mm	mm	kg/m	cm ²	cm ⁴	cm ³	cm
175	190.70	4.50	20.70	26.32	1140	120	6.59
		5.30	24.20	30.87	1330	139	6.56
		6.00	27.30	34.82	1490	156	6.53
200	216.30	7.00	31.70	40.4	1710	179	6.5
		8.20	36.90	47.01	1960	206	6.46
		4.50	23.50	29.94	1680	155	7.49
		5.80	30.10	38.36	2130	197	7.45
250	267.40	6.00	38.70	49.27	4210	315	9.24
		6.60	42.40	54.08	4600	344	9.22
		7.00	45.00	57.26	4860	363	9.21
		8.00	51.20	65.19	5490	411	9.18
300	318.50	9.00	57.30	73.06	6110	457	9.14
		9.30	59.20	75.41	6290	470	9.13
		6.00	46.20	58.91	7190	452	11.1
		6.90	53.00	67.55	8200	515	11
		8.00	61.30	78.04	9410	591	11
350	355.60	9.00	68.70	87.51	10500	659	10.9
		10.30	78.30	99.73	11900	744	10.9
		6.40	55.10	70.21	10700	602	12.3
		7.90	67.70	86.29	13000	734	12.3
400	406.40	9.00	76.90	98	14700	828	12.3
		9.50	81.10	103.3	15500	871	12.2
		12.00	102.00	129.5	19100	1080	12.2
		12.70	107.00	136.8	20100	1130	12.2
		7.90	77.60	98.9	19600	967	14.1
400	406.40	9.00	88.20	112.4	22200	1090	14.1
		9.50	93.00	118.5	23300	1150	14
		12.00	117.00	148.7	28900	1420	14
		12.70	123.00	157.1	30500	1500	13.9

Dimension Tolerances

Outside Diameter
Class 1 : OD < 50 : ±0.50mm
 : OD ≥ 50 : ±1%
Class 2 : OD < 50 : ±0.25mm
 : OD ≥ 50 : ± 0.5%

Thickness :

Class 1 : t < 4.00mm: -0.50mm, +0.60mm
 : t ≥ 4.00mm: +15%, -12.5%
Class 2 : t < 3.00mm: ±0.3mm
 : t ≥ 3.00mm: ±10%