

## Chemical Composition

	STPG 370 Max	STPG 410 Max
Carbon	0.25	0.30
Silicon	0.35	0.35
Manganese	0.3 - 0.9	0.3 - 1.0
Phosphorus	0.04	0.04
Sulphur	0.04	0.04

## Mechanical Properties

	STPG 370 Min	STPG 410 Min
Tensile	370 MPa	410 MPa
Yield	215 MPa	245 MPa
Elongation	30%	25%

## JIS G3454: CARBON STEEL PIPES FOR ORDINARY PIPING

Nominal Diameter		Outside Diameter (mm)			Wall Thickness			Unit Mass	Schedule	Test Pressure	
DN	size	std	min	max	std	min	max	kg/m		Bar	
15	1/2"	21.7	21.4	22.0	2.8	2.5	3.1	1.31	40	60	
					3.2	2.88	3.52	1.46		90	
20	3/4"	27.2	26.9	27.5	2.9	2.6	3.2	1.74	40	60	
					3.4	3.06	3.74	2.0		90	
25	1"	34	33.7	34.3	3.4	3.06	3.74	2.57	40	60	
					3.9	3.51	4.29	2.89		90	
					4.5	4.05	4.95	3.27		80	120
32	1-1/4"	42.7	42.4	43	3.6	3.24	3.96	3.47	40	60	
					4.5	4.05	4.95	4.24		60	90
					4.9	4.41	5.39	4.57		80	120
40	1-1/2"	48.6	48.2	49.0	3.7	3.33	4.07	4.1	40	60	
					4.5	4.05	4.95	4.89		60	90
					5.1	4.59	5.61	5.47		80	120
50	2"	60.5	60.0	61.0	3.2	2.88	3.52	4.52	20	35	
					3.9	3.51	4.29	5.44		40	60
					4.9	4.41	5.39	6.72		60	90
					5.5	4.95	6.05	7.46		80	120
65	2-1/2"	76.3	75.7	76.9	4.5	4.05	4.95	7.97	20	35	
					5.2	4.68	5.72	9.12		40	60
					6.0	5.4	6.6	10.4		60	90
					7.0	6.3	7.7	12		80	120
80	3"	89.1	88.4	89.8	4.5	4.05	4.95	9.39	20	35	
					5.5	4.95	6.05	11.3		40	60
					6.6	5.94	7.26	13.4		60	90
					7.6	6.84	8.36	15.3		80	120
90	3-1/2"	101.6	100.8	102.4	4.5	4.05	4.95	10.8	20	35	
					5.7	5.13	6.27	13.5		40	60
					7.0	6.3	7.7	16.3		60	90
					8.1	7.29	8.91	18.7		80	120
100	4"	114.3	113.4	115.2	4.9	4.41	5.39	13.2	20	35	
					6.0	5.4	6.6	16		40	60
					7.1	6.39	7.81	18.8		60	90
					8.6	7.74	9.46	22.4		80	120
125	5"	139.8	138.7	140.9	5.1	4.59	5.61	16.9	20	35	
					6.6	5.94	7.26	21.7		40	60
					8.1	7.29	8.91	26.3		60	90
					9.5	8.55	10.45	30.5		80	120
150	6"	165.2	163.9	166.5	5.5	4.95	6.05	21.7	20	35	
					7.1	6.39	7.81	27.7		40	60
					9.3	8.37	10.23	35.8		60	90
					11.0	9.9	12.1	41.8		80	120

### TOLERANCE

OD	DN ≤ 25 mm: ± 0.3 mm DN ≥ 32 mm: ± 0.8%
WT	t < 3.0 mm: ± 0.3 mm t ≥ 3.0 mm: ± 10%
Weight	± 10%