



# TA CHEN International Corporation

TA CHEN

## STANDARD DIMENSIONS AND WEIGHT Welded Stainless Steel Pipe (ASTM A312)

kg/m

Outside diameter		SCH5S			SCH10S			SCH40S			SCH80S		
inch N.B.	mm	WALL (mm) THICKNESS	304 304L	316 316L	WALL (mm) THICKNESS	304 304L	316 316L	WALL (mm) THICKNESS	304 304L	316 316L	WALL (mm) THICKNESS	304 304L	316 316L
1/8"	10.3				1.24	0.280	0.282	1.73	0.369	0.372			
1/4"	13.7	1.20	0.374	0.376	1.65	0.495	0.498	2.24	0.639	0.644			
3/8"	17.2	1.20	0.478	0.481	1.65	0.639	0.643	2.31	0.857	0.862			
1/2"	21.3	1.65	0.808	0.813	2.11	1.01	1.02	2.77	1.28	1.29	3.73	1.63	1.64
3/4"	26.7	1.65	1.03	1.04	2.11	1.29	1.30	2.87	1.70	1.71	3.91	2.22	2.23
1"	33.4	1.65	1.30	1.31	2.77	2.11	2.13	3.38	2.53	2.54	4.55	3.27	3.29
1 1/4"	42.2	1.65	1.67	1.68	2.77	2.72	2.74	3.56	3.43	3.45	4.85	4.51	4.54
1 1/2"	48.3	1.65	1.92	1.93	2.77	3.14	3.16	3.68	4.09	4.12	5.08	5.46	5.50
2"	60.3	1.65	2.41	2.43	2.77	3.97	3.99	3.91	5.49	5.53	5.54	7.55	7.60
2 1/2"	73.0	2.11	3.73	3.75	3.05	5.32	5.35	5.16	8.72	8.78	7.01	11.5	11.5
3"	88.9	2.11	4.56	4.59	3.05	6.52	6.56	5.49	11.4	11.5	7.62	15.4	15.5
3 1/2"	101.6	2.11	5.23	5.26	3.05	7.49	7.54	5.74	13.7	13.8	8.08	18.8	18.9
4"	114.3	2.11	5.90	5.93	3.05	8.45	8.51	6.02	16.2	16.3	8.56	22.5	22.6
5"	141.3	2.77	9.56	9.62	3.40	11.7	11.8	6.55	22.0	22.1			
6"	168.3	2.77	11.4	11.5	3.40	14.0	14.1	7.11	28.5	28.7			
8"	219.1	2.77	14.9	15.0	3.76	20.1	20.3	8.18	42.9	43.2			
10"	273.1	3.40	22.8	22.9	4.19	28.0	28.2	9.27	60.9	61.3			
12"	323.9	3.96	31.5	31.7	4.57	36.3	36.5	9.53	74.6	75.1			

## CHEMICAL COMPOSITION FOR WELDED

Symbol			Chemical composition(%)								
ASTM	JIS	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	Other
TP304			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~11.00	18.00~20.00		
	SUS304		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	8.00~11.00	18.00~20.00		
		WNR4301	≤ 0.070	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	8.50~10.50	17.00~19.00		
TP304L			≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~13.00	18.00~20.00		
	SUS304L		≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	18.00~20.00		
		WNR4306	≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	10.00~12.50	18.00~20.00		
TP321			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	17.00~20.00		Ti%5xC~0.60
	SUS321		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	17.00~20.00		Ti%5xC or above
		WNR4541	≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	9.00~12.00	17.00~19.00		Ti%5xC or above
TP316			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.045	≤ 0.030	10.00~14.00	16.00~18.00	2.00~3.00	
	SUS316		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	10.00~14.00	16.00~18.00	2.00~3.00	
		WNR4401	≤ 0.070	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	10.50~13.50	16.50~18.50	2.00~2.50	
TP316L			≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	10.00~15.00	16.00~18.00	2.00~3.00	
	SUS316L		≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	12.00~16.00	16.00~18.00	2.00~3.00	
		WNR4404	≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	11.00~14.00	16.50~18.50	2.00~2.50	



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## STANDARD DIMENSIONS AND WEIGHT Welded Stainless Steel Pipe (JIS G3459)

SIZE		Diameter	Thickness															
			SCH. 5S		SCH. 10S		SCH. 20S		SCH. 40		SCH. 80		SCH. 120		SCH. 160		XXS	
(A)	(B)	mm	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m	Thickness mm	Weight kg/m
6	1/8	10.5	1.0	0.234	1.2	0.275	1.5	0.333	1.7	0.369	2.4	0.479	-	-	-	-	-	-
8	1/4	13.8	1.2	0.373	1.65	0.494	2.0	0.582	2.2	0.629	3.0	0.799	-	-	-	-	-	-
10	3/8	17.3	1.2	0.476	1.65	0.637	2.0	0.755	2.3	0.851	3.2	1.11	-	-	-	-	-	-
15	1/2	21.7	1.65	0.816	2.1	1.02	2.5	1.18	2.8	1.31	3.7	1.64	-	-	4.7	1.97	7.5	2.63
20	3/4	27.2	1.65	1.04	2.1	1.30	2.5	1.52	2.9	1.74	3.9	2.24	-	-	5.5	2.94	7.8	3.73
25	1	34.0	1.65	1.32	2.8	2.15	3.0	2.29	3.4	2.57	4.5	3.27	-	-	6.4	4.36	9.1	5.59
32	1 1/4	42.7	1.65	1.67	2.8	2.76	3.0	2.94	3.6	3.47	4.9	4.57	-	-	6.4	5.73	9.7	7.89
40	1 1/2	48.6	1.65	1.91	2.8	3.16	3.0	3.37	3.7	4.10	5.1	5.47	-	-	7.1	7.27	10.2	9.66
50	2	60.5	1.65	2.39	2.8	3.98	3.5	4.92	3.9	5.44	5.5	7.46	-	-	8.7	11.1	11.1	13.5
65	2 1/2	76.3	2.1	3.84	3.0	5.42	3.5	6.28	5.2	9.12	7.0	12.0	-	-	9.5	15.6	14.0	21.5
80	3	89.1	2.1	4.51	3.0	6.37	4.0	8.39	5.5	11.3	7.6	15.3	-	-	11.1	21.4	15.2	27.7
90	3 1/2	101.6	2.1	5.15	3.0	7.29	4.0	9.63	5.7	13.5	8.1	18.7	-	-	12.7	27.8	16.2	34.0
100	4	114.3	2.1	5.81	3.0	8.23	4.0	10.9	6.0	16.0	8.6	22.4	11.1	28.2	13.5	33.6	17.1	41.0
125	5	139.8	2.8	9.46	3.4	11.4	5.0	16.6	6.6	21.7	9.5	30.5	12.7	39.8	15.9	48.6	19.1	59.8
150	6	165.2	2.8	11.2	3.4	13.6	5.0	19.8	7.1	27.7	11.0	41.8	14.3	53.2	18.2	66.0	21.9	77.4
200	8	216.3	2.8	14.7	4.0	20.9	6.5	33.6	8.2	42.1	12.7	63.8	18.2	88.9	23.0	110	22.2	106
250	10	267.4	3.4	22.1	4.0	26.0	6.5	41.8	9.3	59.2	15.1	59.2	21.4	130	28.6	168	25.4	152
300	12	318.5	4.0	31.0	4.5	34.8	6.5	50.0	10.3	78.3	17.4	129	25.4	184	33.3	234	25.4	184

## CHEMICAL COMPOSITION FOR WELDED

Symbol			Chemical composition(%)								
ASTM	JIS	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	Other
TP304			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~11.00	18.00~20.00		
	SUS304		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	8.00~11.00	18.00~20.00		
		WNR4301	≤ 0.070	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	8.50~10.50	17.00~19.00		
TP304L			≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~13.00	18.00~20.00		
	SUS304L		≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	18.00~20.00		
		WNR4306	≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	10.00~12.50	18.00~20.00		
TP321			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	17.00~20.00		Ti%5xC~0.60
	SUS321		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	9.00~13.00	17.00~20.00		Ti%5xC or above
		WNR4541	≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	9.00~12.00	17.00~19.00		Ti%5xC or above
TP316			≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.045	≤ 0.030	10.00~14.00	16.00~18.00	2.00~3.00	
	SUS316		≤ 0.080	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	10.00~14.00	16.00~18.00	2.00~3.00	
		WNR4401	≤ 0.070	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	10.50~13.50	16.50~18.50	2.00~2.50	
TP316L			≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	10.00~15.00	16.00~18.00	2.00~3.00	
	SUS316L		≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.040	≤ 0.030	12.00~16.00	16.00~18.00	2.00~3.00	
		WNR4404	≤ 0.030	≤ 1.00	≤ 2.0	≤ 0.045	≤ 0.030	11.00~14.00	16.50~18.50	2.00~2.50	



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## Stainless Steel welded Square Tube ASTM A554 in pcs / bundle

MM X MM	thickness O.D	18GA	16GA	14GA	12GA	11GA	07GA	1/4"
		0.049"	0.065"	0.083"	0.109"	0.12"	0.18"	0.25"
12.7 x 12.7	1/2" x 1/2"	204	204					
19.05 x 19.05	3/4" x 3/4"	150	150	104	104	104		
25.40 x 25.40	1" x 1"	120	120	96	70	70		
31.75 x 31.75	1-1/4" x 1-1/4"		96	70	60	60		
38.10 x 38.10	1-1/2" x 1-1/2"	80	80	70	40	40	35	
44.45 x 44.45	1-3/4" x 1-3/4"		70	50	35	35		
50.80x50.80	2" x 2"	40	40	40	32	32	24	18
63.50x63.50	2-1/2" x 2-1/2"			24	24	24	15	12
76.20 x 76.20	3" x 3"			24	24	24	15	12
101.60 x 101.60	4" x 4"				12	12	8	8
152.40 x 152.40	6" x 6"				6	6	6	6

## Stainless Steel welded Rectangular Tube ASTM A554 in pcs / bundle

MM X MM	thickness O.D	18GA	16GA	14GA	12GA	11GA	07GA	1/4"
		0.049"	0.065"	0.083"	0.109"	0.12"	0.18"	0.25"
12.70x25.40	1/2" x 1"	100	100					
12.70 x 38.10	1/2" x 1-1/2"		96	96		70		
19.05 x 31.75	3/4" x 1-1/4"							
19.05 x 38.10	3/4" x 1-1/2"		90	80				
25.40 x 38.10	1" x 1-1/2"		80	80	56	56		
25.40 x 50.80	1" x 2"		80	56	40	40		
25.40 x 63.50	1" x 2-1/2"							
25.40 x 76.20	1" x 3"		50	40	32	32		
38.10 x 50.80	1-1/2" x 2"		56	56	35	35		
38.10 x 76.20	1-1/2" x 3"		30	30	25	25		
50.80 x 76.20	2" x 3"				25	25	20	12
50.80 x 101.60	2" x 4"				20	20	16	12
76.20 x 101.60	3" x 4"				16	16	12	9
76.20 x 127.00	3" x 5"				12	12	9	8
76.20 x 152.40	3" x 6"				12	12	9	6
50.80 x 152.40	2" x 6"				12	12	8	8
101.60 x 152.40	4" x 6"				9	9	9	6

## Stainless Steel welded Round Tube ASTM A554 in pcs /bundle

MM	thickness O.D	18GA	16GA	11GA
		0.049"	0.065"	0.12"
19.05	3/4"	60	60	
22.23	7/8"	60	60	
25.40	1"	50	50	50
31.75	1-1/4"	40	40	40
38.10	1-1/2"	30	30	30
41.28	1-5/8"	30	30	30
44.45	1-3/4"	25	25	25
48.26	1.9"	25	25	25
50.80	2"	20	20	20
63.50	2-1/2"	15	15	15
76.20	3"	13	13	13