

DESCRIPCION: Productos planos que se obtienen del proceso de laminación de planchones de acero aleados al cromo, níquel con buena resistencia a la corrosión por agua, ácidos y soluciones alcalinas. Los aceros inoxidable se clasifican bajo la norma AISI que considera la corrosión química.

USOS: Son usados para las líneas de conducción de líquidos fluidos, líquidos corrosivos y gases, son para uso industrial y comercial en general.

Propiedades Mecánicas

Grado	Tracción Resistencia MPa, (Min)	Ceder Fuerza MPa, (Min)	Elongación % Alargamiento en 50mm <i>medir la longitud min</i>	Dureza (Max)	
				BHN	Rb
304	585	234	56	191	72
304L	585	200	56	191	72
316	615	235	57	197	75
316L	585	200	56	197	75

Dimensiones y Pesos Estándar - Tubo de acero inoxidable soldado (ASTM A312)

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			

Composición Química para Soldado

Símbolo			Composition Química (%)								
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	

Tubo cuadrado soldado de acero inoxidable ASTM A554 en piezas / paquete

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"
12.70 x 12.70	½" x 1/2"	204	204					
19.05 x 19.05	¾" x ¾"	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		
50.80 x 50.80	2" x 2"	40	40	40	32	32	24	18
63.50 x 63.50	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

Tubo rectangular soldado de acero inoxidable ASTM A554 en piezas / paquete

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

Tubo redondo soldado de acero inoxidable ASTM A554 en piezas / paquete

MM	thicknes s	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