



**TUBERIA DE ACERO AL CARBONO
ASTM A53 / A106
Area de La Superficie del Tubo**

Diámetro Nominal NPS DN		Diámetro Exterior Real		Espesor de Pared		Identificación		Peso del Tubo		Área de La Superficie Exterior en mt2 por metro lineal de tubería
Pulgadas in.	Milímetros mm.	(in.)	mm.	Pulgadas (in.)	Milímetros (mm.)	Weight Class	Schedule	lb/pie	kg/m	
1/2	15	0.840	21.3	0.109	2.77	STD	40	0.85	1.27	
				0.147	3.73	XS	80	1.09	1.62	
3/4	20	1.050	26.7	0.113	2.87	STD	40	1.13	1.69	0.084
				0.154	3.91	XS	80	1.47	2.20	
1	25	1.315	33.4	0.133	3.38	STD	40	1.68	2.50	0.105
				0.179	4.55	XS	80	2.17	3.24	
1-1/4	32	1.660	42.2	0.140	3.56	STD	40	2.27	3.39	0.132
				0.191	4.85	XS	80	3.00	4.47	
1-1/2	40	1.900	48.3	0.145	3.68	STD	40	2.72	4.05	0.152
				0.200	5.08	XS	80	3.63	5.41	
2	50	2.375	60.3	0.154	3.91	STD	40	3.65	5.44	0.190
				0.218	5.54	XS	80	5.02	7.48	
2-1/2	65	2.875	73.03	0.203	5.16	STD	40	5.79	8.63	0.229
				0.276	7.01	XS	80	7.66	11.41	
				0.375	9.52	-	160	-	-	
				0.552	14.02	XXS	-	-	-	
3	80	3.500	88.90	0.125	3.18	-	-	4.51	6.72	0.279
				0.156	3.96	-	-	5.57	8.29	
				0.188	4.78	-	-	6.65	9.92	
				0.216	5.49	STD	40	7.58	11.29	
				0.250	6.35	-	-	8.68	12.93	
				0.281	7.14	-	-	9.66	14.40	
4	100	4.500	114.30	0.125	3.18	-	-	5.84	8.71	0.359
				0.156	3.96	-	-	7.24	10.78	
				0.188	4.78	-	-	8.66	12.91	
				0.219	5.56	-	-	10.01	14.91	
				0.237	6.02	STD	40	10.79	16.07	
				0.250	6.35	-	-	11.35	16.90	
				0.281	7.14	-	-	12.66	18.87	
				0.312	7.92	-	-	13.98	20.78	
				0.337	8.56	XS	80	14.98	22.32	
				0.438	11.13	-	120	19.00	28.32	
5	125	5.563	141.29	0.188	4.78	-	-	10.79	16.09	0.444
				0.219	5.56	-	-	12.50	18.61	
				0.258	6.55	STD	40	14.62	21.77	
				0.281	7.14	-	-	15.85	23.62	
				0.312	7.92	-	-	17.50	26.05	
				0.344	8.74	-	-	19.17	28.57	
6	150	6.625	168.28	0.188	4.78	-	-	12.92	19.27	0.529
				0.219	5.56	-	-	14.98	22.31	
				0.250	6.35	-	-	17.02	25.36	
				0.280	7.11	STD	40	18.97	28.26	
				0.312	7.92	-	-	21.04	31.32	
				0.344	8.74	-	-	23.08	34.39	
				0.375	9.52	-	-	25.02	37.28	
				0.432	10.97	XS	80	28.57	42.56	
				0.562	14.27	-	120	36.39	54.20	
				0.719	18.26	-	160	45.35	67.56	
0.864	21.95	XXS	-	53.16	79.22					



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NPS	DN	Real		Pulgadas	Milímetros	Weight Class	Schedule	lb/pie	kg/m	
Pulgadas in.	Milímetros mm.	(in.)	mm.	(in.)	(mm.)					
8	200	8.625	219.08	0.188	4.78	-	-	16.94	25.26	0.688
				0.203	5.16	-	-	18.26	27.22	
				0.219	5.56	-	-	19.66	29.28	
				0.250	6.35	-	20	22.36	33.31	
				0.277	7.04	-	30	24.70	36.81	
				0.312	7.92	-	-	27.70	41.24	
				0.322	8.18	STD	40	28.55	42.55	
				0.344	8.74	-	-	30.42	45.34	
				0.375	9.52	-	-	33.04	49.20	
				0.406	10.31	-	60	35.64	53.08	
				0.438	11.13	-	-	38.30	57.08	
				0.500	12.70	XS	80	43.39	64.64	
				0.594	15.09	-	100	50.95	75.92	
				0.719	18.26	-	120	60.71	90.44	
0.812	20.62	-	140	67.76	100.92					
0.875	22.22	XXS	-	72.42	107.88					
0.906	23.01	-	160	74.69	111.27					
10	250	10.750	273.05	0.188	4.78	-	-	21.21	31.62	0.858
				0.203	5.16	-	-	22.87	34.08	
				0.219	5.56	-	-	24.63	36.67	
				0.250	6.35	-	20	28.04	41.75	
				0.279	7.09	-	-	31.20	46.49	
				0.307	7.80	-	30	34.24	51.01	
				0.344	8.74	-	-	38.23	56.96	
				0.365	9.27	STD	40	40.48	60.29	
				0.438	11.13	-	-	48.19	71.87	
				0.500	12.70	XS	60	54.71	81.52	
				0.594	15.09	-	80	64.43	95.97	
				0.719	18.26	-	100	77.03	114.70	
				0.844	21.44	-	120	89.29	133.00	
				1.000	25.40	XXS	140	104.13	155.09	
1.125	28.57	-	160	115.65	172.21					
12	300	12.750	323.85	0.203	5.16	-	-	27.20	40.55	1.017
				0.219	5.56	-	-	29.31	43.63	
				0.250	6.35	-	20	33.38	49.71	
				0.281	7.14	-	-	37.42	55.75	
				0.312	7.92	-	-	41.45	61.69	
				0.330	8.38	-	30	43.77	65.18	
				0.344	8.74	-	-	45.58	67.90	
				0.375	9.52	STD	-	49.52	73.78	
				0.406	10.31	-	40	53.52	79.70	
				0.438	11.13	-	-	57.59	85.82	
				0.500	12.70	XS	-	65.42	97.43	
				0.562	14.27	-	60	73.15	108.92	
				0.688	17.28	-	80	88.63	132.04	
				0.844	21.44	-	100	107.32	159.86	
				1.000	25.40	XXS	120	125.49	186.91	
1.125	28.57	-	140	139.68	208.00					
1.312	33.32	-	160	160.27	238.68					



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Pulgadas in.	Milímetros mm.	(in.)	mm.	Pulgadas (in.)	Milímetros (mm.)	Weight Class	Schedule	lb/pie	kg/m	
14	350	14.00	355.60	0.250	6.35	-	10	36.71	54.69	
				0.281	7.14	-	-	41.17	61.35	
				0.312	7.92	-	20	45.61	67.90	
				0.344	8.74	-	-	50.17	74.76	
				0.375	9.52	STD	30	54.57	81.25	
				0.438	11.13	-	40	63.44	94.55	
				0.469	11.91	-	-	67.78	100.94	
				0.500	12.70	XS	-	72.09	107.39	
16	400	16.00	406.40	0.250	6.35	-	10	42.05	62.64	1.277
				0.281	7.14	-	-	47.17	70.30	
				0.312	7.92	-	20	52.27	77.83	
				0.344	8.74	-	-	57.52	85.71	
				0.375	9.52	STD	30	62.58	93.17	
				0.438	11.13	-	-	72.80	108.49	
				0.469	11.91	-	-	77.79	115.86	
				0.500	12.70	XS	40	82.77	123.30	
18	450	18.000	457.20	0.250	6.35	-	10	47.39	70.60	1.436
				0.281	7.14	-	-	53.18	79.24	
				0.312	7.92	-	20	58.94	87.75	
				0.344	8.74	-	-	64.87	96.66	
				0.375	9.52	STD	-	70.59	105.10	
				0.406	10.31	-	-	76.29	113.62	
				0.438	11.13	-	30	82.15	122.43	
				0.469	11.91	-	-	87.81	130.78	
0.500	12.70	XS	-	93.45	139.20					
20	500	20.000	508.00	0.250	6.35	-	10	52.73	78.55	1.596
				0.281	7.14	-	-	59.18	88.19	
				0.312	7.92	-	-	65.60	97.67	
				0.344	8.74	-	-	72.21	107.60	
				0.375	9.52	STD	20	78.60	117.02	
				0.406	10.31	-	-	84.96	126.53	
				0.438	11.13	-	-	91.51	136.37	
				0.469	11.91	-	-	97.83	145.70	
0.500	12.70	XS	30	104.13	155.12					
24	600	24.000	609.60	0.250	6.35	-	10	63.41	94.46	1.915
				0.281	7.14	-	-	71.18	106.08	
				0.312	7.92	-	-	78.93	117.51	
				0.344	8.74	-	-	86.91	129.50	
				0.375	9.52	STD	20	94.62	140.88	
				0.406	10.31	-	-	102.31	152.37	
				0.438	11.13	-	-	110.22	164.26	
				0.469	11.91	-	-	117.86	175.54	
				0.500	12.70	XS	-	125.49	186.94	
0.562	14.27	-	30	140.68	209.50					

Tolerancias dimensionales:

Espesor: $\pm 12,5\%$ de espesor nominal en cualquier punto del tubo.

Peso: $\pm 10\%$ del paquete de tubos con diametro menor o igual a 4" (114,3mm) o tubos individuales con diametro nominal mayor a 4" (114,3mm)

Diametro externo: Para diametro menores o iguales a 1-1/2" (48,3mm) +0,016 pulg (+0,40mm)

Para diametro mayores o iguales a 2" (60,3mm): $\pm 1\%$