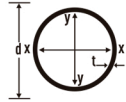




TUBERÍA PARA USO MECÁNICO ASTM A-500

DIÁMETROS MAYORES (OC)

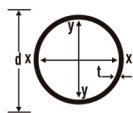


DENOMINACIÓN		DIÁMETRO EXTERIOR	ESPESOR DE PARED	PESO EXTREMO LISO		DIÁMETRO INTERIOR	AREA		I	S	R
TAMANO NOMINAL	PARED	D (pulg/a)	t (pulg/a)	Wps		d (pulg)	pulg ²	cm ²	cm ⁴	cm ³	cm
				(lb/pie)	(kg/m)						
6 5/8		6.625	0.312	21.04	31.31	6.001	6.19	39.92	1283.93	152.60	5.68
6 5/8		6.625	0.375	25.03	37.25	5.875	7.36	47.50	1499.18	178.18	5.62
6 5/8	80 XE	6.625	0.432	28.57	42.52	5.761	8.40	54.23	1682.35	199.95	5.57
6 5/8		6.625	0.500	32.71	48.68	5.625	9.62	62.07	1887.09	224.29	5.52
8 5/8		8.625	0.188	16.94	25.21	8.249	4.98	32.15	1843.14	168.27	7.58
8 5/8	20	8.625	0.250	22.36	33.28	8.125	6.58	42.44	2398.29	218.95	7.52
8 5/8	30	8.625	0.277	24.70	36.76	8.071	7.26	46.87	2632.24	240.31	7.50
8 5/8	40 E	8.625	0.322	28.55	42.49	7.981	8.40	54.19	3011.86	274.96	7.46
8 5/8		8.625	0.375	33.04	49.17	7.875	9.72	62.71	3442.79	314.30	7.42
8 5/8	80 XE	8.625	0.500	43.39	64.57	7.625	12.76	82.34	4392.41	401.00	7.31
10 3/4		10.750	0.188	21.21	31.56	10.374	6.24	86.86	16.16	3.73	
10 3/4	20	10.750	0.250	28.04	41.73	10.250	8.25	53.20	4724.71	346.07	9.43
10 3/4	30	10.750	0.307	34.24	50.96	10.136	10.07	64.98	5709.66	418.21	9.38
10 3/4	40 E	10.750	0.365	40.48	60.24	10.020	11.91	76.83	6678.35	489.17	9.33
10 3/4	60 XE	10.750	0.500	54.74	81.46	9.750	16.1	103.88	8806.33	645.03	9.22
12 3/4		12.750	0.188	25.22	37.53	12.374	7.42	47.87	6082.08	375.61	11.28
12 3/4	20	12.750	0.250	33.38	49.68	12.250	9.82	63.34	7970.12	492.21	11.23
12 3/4	30	12.750	0.330	43.77	65.14	12.090	12.88	83.07	10323.01	637.52	11.16
12 3/4		12.750	0.344	45.58	67.83	12.062	13.41	86.50	10725.28	662.36	11.15
12 3/4	E	12.750	0.375	49.56	73.75	12.000	14.58	94.06	11606.10	716.76	11.12
12 3/4	40	12.750	0.406	53.52	79.65	11.938	15.74	101.58	12473.38	770.32	11.09
12 3/4	XE	12.750	0.500	65.42	97.36	11.750	19.24	124.14	15021.81	927.70	11.01
14		14.000	0.188	27.73	41.27	13.624	8.16	52.63	8084.05	454.67	12.40
14	10	14.000	0.250	36.71	54.63	13.500	10.80	69.67	10607.49	596.60	12.35
14	20	14.000	0.312	45.61	67.88	13.376	13.42	86.56	13062.34	734.66	12.30
14	30 E	14.000	0.375	54.57	81.21	13.250	16.05	103.56	15487.83	871.08	12.24
14	40	14.000	0.438	63.44	94.41	13.124	18.66	120.40	17845.10	1003.66	12.19
14	XE	14.000	0.500	72.09	107.28	13.000	21.21	136.81	20099.61	1130.46	12.13
16		16.000	0.188	31.75	47.25	15.624	9.34	60.25	12128.32	596.87	14.20
16	10	16.000	0.250	42.05	62.58	15.500	12.37	79.81	15940.87	784.49	14.15
16	20	16.000	0.312	52.27	77.79	15.376	15.38	99.21	19663.01	967.67	14.09
16	30 E	16.000	0.375	62.58	93.13	15.250	18.41	118.76	23354.06	1149.31	14.04
16	40 XE	16.000	0.500	82.77	123.18	15.000	24.35	157.08	30411.49	1496.63	13.93
18		18.000	0.188	35.76	53.22	17.624	10.52	67.87	17336.65	758.38	16.00
18	10	18.000	0.250	47.39	70.52	17.500	13.94	89.94	22816.14	998.08	15.94
18	20	18.000	0.312	58.94	87.71	17.376	17.34	111.85	28180.38	1232.74	15.89
18	E	18.000	0.375	70.59	105.05	17.250	20.76	133.96	33514.76	1466.09	15.83
18	30	18.000	0.438	82.15	122.25	17.124	24.17	155.91	38733.52	1694.38	15.78
18	XE	18.000	0.500	93.45	139.07	17.000	27.49	177.35	43758.20	1914.18	15.72
18	40	18.000	0.562	104.67	155.77	16.876	30.79	198.63	48674.12	2129.23	15.67
20	10	20.000	0.250	52.73	78.47	19.500	15.51	100.07	31429.09	1231.37	17.74
20		20.000	0.312	65.60	97.62	19.376	19.30	124.50	38858.80	1529.87	17.68
20	20 E	20.000	0.375	78.60	116.97	19.250	23.12	149.16	46263.63	1821.40	17.63
20	XE	20.000	0.500	104.13	154.96	19.000	30.63	197.62	60531.33	2383.12	17.52
20		20.000	0.562	116.67	173.63	18.876	34.32	221.41	67402.32	2653.63	17.46
22		22.000	0.250	58.07	86.42	21.500	17.08	110.21	41975.52	1502.35	19.53
22	E	22.000	0.375	86.61	128.89	21.250	25.48	164.36	61894.37	2215.26	19.42
22	XE	22.000	0.500	114.81	170.86	21.000	33.77	217.88	81122.46	2903.45	19.37
22		22.000	0.562	128.67	191.48	20.876	37.85	244.20	90408.32	3235.80	19.26
22		22.000	0.625	142.68	212.33	20.750	41.97	270.77	99675.97	3567.50	19.20
24	10	24.000	0.250	63.41	94.37	23.500	18.65	120.34	54651.23	1793.02	21.33
24		24.000	0.312	78.93	117.46	23.376	23.22	149.80	67676.21	2220.35	21.27
24	20 E	24.000	0.375	94.62	140.81	23.250	27.83	179.56	80700.66	2647.66	21.22
24	XE	24.000	0.500	125.49	186.75	23.000	36.91	238.15	105923.20	3475.17	21.11
24	30	24.000	0.562	140.68	209.36	22.876	41.38	266.98	118132.26	3875.73	21.05
24		24.000	0.625	156.03	232.20	22.750	45.90	296.11	130336.54	4276.13	21.00
24	40	24.000	0.668	171.29	254.91	22.624	50.39	325.08	142339.71	4669.944	20.94

TUBERÍA PARA USO MECÁNICO ASTM A-500



DIÁMETROS MENORES (OC)



	DIÁMETRO NOMINAL		DIÁMETRO EXTERIOR (D)		ESPESOR (T)		CALIBRE	PESO		ÁREA	I	S	R
	pulg.	mm	pulg.	mm	pulg.	mm		kg/m	kg/pieza	cm ³	cm ⁴	cm ³	cm
30	1/2"	13	0.840	21.34	0.075	1.905	14	0.91	5.46	1.163	0.55	0.519	0.69
	3/4"	19	1.050	26.67	0.075	1.905	14	1.16	6.96	1.482	1.14	0.857	0.878
	1"	25	1.315	33.40	0.075	1.905	14	1.56	9.36	1.885	2.35	1.405	1.116
	1 1/4"	32	1.660	42.16	0.090	2.286	13	2.35	14.10	2.864	5.71	2.709	1.412
	1 1/2"	38	1.900	48.26	0.090	2.286	13	2.71	16.26	3.302	8.75	3.624	1.627
	2"	51	2.375	60.33	0.105	2.667	12	3.96	23.76	4.831	20.12	6.670	2.041
	2 1/2"	64	2.875	73.03	0.105	2.667	12	4.84	29.04	6.967	42.58	11.662	2.472
	3"	76	3.500	88.90	0.120	3.048	11	6.75	40.50	8.551	78.65	17.695	3.033
	4"	102	4.500	114.30	0.120	3.048	11	8.74	52.44	11.084	171.24	29.962	3.93
5"	127	5.000	127.00	0.125	3.175	1/8"	9.69	58.14	12.351	236.87	37.303	4.379	
6 5/8"	168	6.625	168.30	0.188	4.780	3/16"	19.23	115.38	24.528	820.30	97.495	5.783	
40	1/2"	13	0.840	21.34	0.109	2.769	12	1.27	7.62	1.615	0.71	0.667	0.664
	3/4"	19	1.050	26.67	0.113	2.870	12	1.68	10.08	2.146	1.54	1.156	0.848
	1"	25	1.315	33.40	0.133	3.378	10	2.65	15.90	3.186	3.64	2.177	1.068
	1 1/4"	32	1.660	42.16	0.135	3.429	10	3.49	20.94	4.313	8.10	3.844	1.371
	1 1/2"	38	1.900	48.26	0.145	3.683	9	4.37	26.22	5.158	12.90	5.346	1.581
	2"	51	2.375	60.33	0.154	3.912	9	5.55	33.30	6.932	27.71	9.187	1.999
	2 1/2"	64	2.875	73.03	0.188	4.775	3/16"	8.43	50.58	10.994	63.67	17.436	2.406
	3"	76	3.500	88.90	0.220	5.588	5	12.25	73.50	14.377	125.58	28.253	2.955
	4"	102	4.500	114.30	0.220	5.588	5	15.98	95.88	20.478	301.04	52.676	3.834
6 5/8"	168	6.625	168.28	0.280	7.112		29.65	177.90	36.009	1171.37	139.220	5.704	
PG*	1/2"	13	0.840	21.34	0.090	2.286	13	1.07	6.42	1.368	0.63	0.590	0.678
	3/4"	19	1.050	26.67	0.095	2.413	13	1.44	8.64	1.839	1.37	1.024	0.862
	1"	25	1.315	33.40	0.104	2.642	12	2.00	12.00	2.553	3.04	1.821	1.092
	1 1/4"	32	1.660	42.16	0.110	2.794	12	2.71	16.26	3.456	6.73	3.192	1.395
	1 1/2"	38	1.900	48.26	0.114	2.896	11	3.24	19.44	4.127	10.66	4.417	1.607
	2"	51	2.375	60.33	0.120	3.048	11	4.30	25.80	5.485	22.56	7.478	2.028
	2 1/2"	64	2.875	73.03	0.145	3.683	9	6.29	37.74	8.023	48.36	13.244	2.455
	3"	76	3.500	88.90	0.150	3.810	9	7.99	47.94	10.185	92.36	20.779	3.011
	4"	102	4.500	114.30	0.156	3.962	8	10.77	64.62	13.735	209.29	36.621	3.904
	5"	127	5.000	127.00	0.156	3.962	8	12.01	72.06	15.316	290.12	45.689	4.325
	6 1/4"	159	6.250	158.75	0.156	3.962	8	15.11	90.66	19.268	577.45	72.749	5.474
6 5/8"	168	6.625	168.28	0.250	6.350	1/4"	25.33	151.98	32.303	1060.33	126.024	5.729	

PROPIEDADES MECÁNICAS ASTM A 500	GRADO A		GRADO B		GRADO C	
	lbs/pulg ²	kgs/cm ²	lbs/pulg ²	kgs/cm ²	lbs/pulg ²	kgs/cm ²
Esfuerzo de ruptura mín.	45,000	3,164	58,000	4,078	62,000	4,359
Esfuerzo de fluencia mín.	33,000	2,320	42,000	2,953	46,000	3,234

PG*: Tubo de pared gruesa.

Nota: La tubería para uso mecánico se surte como estándar en tramos de 6.00 mts.



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