

DIÁMETRO EXTERIOR		ESPESOR		PESO		DIÁMETRO INTERIOR		T I P O	C E D U L A	A	B	X42	X46	X52	X56	X60	X65	X70	X80				
ASTM	API		in	mm	Lb/ft	Kg/m	in			mm	30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000			
	in	mm									30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000			
2	2 3/8	60.33	0.154	3.91	3.66	5.45	2.067	52.50	STD	40	2,330	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
			0.172	4.37	4.05	6.03	2.031	51.59				2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.188	4.78	4.40	6.55	1.999	50.77				2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.218	5.54	5.03	7.49	1.939	49.25	XS	80	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.250	6.35	5.68	8.46	1.875	47.63				2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.281	7.14	6.29	9.37	1.813	46.05				2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.344	8.74	7.46	11.11	1.687	42.85				2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
2 1/2	2 7/8	73.03	0.156	3.96	4.53	6.75	2.563	65.10			1,950	2,280	2,730	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
			0.172	4.37	4.97	7.40	2.531	64.29				2,150	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.188	4.78	5.40	8.04	2.499	63.47				30	2,350	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.203	5.16	5.80	8.64	2.469	62.71	STD	40	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.216	5.49	6.14	9.15	2.443	62.05					2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.250	6.35	7.02	10.46	2.375	60.33					2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.276	7.01	7.67	11.42	2.323	59.00	XS	80	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
0.375	9.53	10.01	14.91	2.125	53.98					160	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
3	3 1/2	88.90	0.188	4.78	6.66	9.92	3.124	79.35			30	1,930	2,260	2,710	2,970	3,000	3,000	3,000	3,000	3,000			
			0.216	5.49	7.58	11.29	3.068	77.93	STD	40	2,220	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.250	6.35	8.69	12.94	3.000	76.20					2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.281	7.14	9.67	14.40	2.938	74.63					2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.300	7.62	10.26	15.28	2.900	73.66	XS	80	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.438	11.13	14.32	21.33	2.624	66.65					160	2,500	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
3 1/2	4	101.60	0.226	5.74	9.12	13.58	3.548	90.12	STD	40	2,030	2,370	2,850	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
			0.250	6.35	10.02	14.92	3.500	88.90					2,250	2,630	3,000	3,000	3,000	3,000	3,000	3,000			
			0.281	7.14	11.17	16.64	3.438	87.33					2,530	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.318	8.08	12.52	18.65	3.364	85.45	XS	80	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
4	4 1/2	114.30	0.219	5.56	10.02	14.92	4.062	103.17				1,750	2,040	2,450	2,690	3,000	3,000	3,000	3,000	3,000			
			0.237	6.02	10.80	16.09	4.026	102.26	STD	40	1,900	2,210	2,650	2,910	3,000	3,000	3,000	3,000	3,000	3,000			
			0.250	6.35	11.36	16.92	4.000	101.60					2,000	2,330	2,800	3,000	3,000	3,000	3,000	3,000	3,000		
			0.281	7.14	12.67	18.87	3.938	100.03					2,250	2,620	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.312	7.92	13.97	20.81	3.876	98.45					2,500	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.337	8.56	15.00	22.34	3.826	97.18	XS	80	2,700	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
			0.438	11.13	19.02	28.33	3.624	92.05					120	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000		
			0.531	13.49	22.53	33.56	3.438	87.33					160	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000		
0.674	17.12	27.57	41.07	3.152	80.06	XXS					2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000					
5	5 9/16	141.29	0.219	5.56	12.51	18.63	5.125	130.16				1,420	1,650	1,980	2,170	2,460	2,650	2,830	3,000	3,000			
			0.258	6.55	14.63	21.79	5.047	128.18	STD	40	1,670	1,950	2,340	2,560	2,890	3,000	3,000	3,000	3,000	3,000			
			0.281	7.14	15.87	23.64	5.001	127.01					1,820	2,120	2,550	2,790	3,000	3,000	3,000	3,000	3,000		
			0.312	7.92	17.51	26.08	4.939	125.44					2,020	2,360	2,830	3,000	3,000	3,000	3,000	3,000	3,000		
			0.344	8.74	19.19	28.58	4.875	123.81					2,230	2,600	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
			0.375	9.53	20.8	30.98	4.813	122.24	XS	80	2,430	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
			0.500	12.70	27.06	40.31	4.563	115.89					120	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000		
0.625	15.88	32.99	49.14	4.313	109.54					160	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000					

 Tubería de Conducción

PRESIÓN DE PRUEBA HIDROSTÁTICA (psi)

NICKEL ALLOY

Tubería de Conducción

PRESIÓN DE PRUEBA HIDROSTÁTICA (psi)

DIÁMETRO EXTERIOR		ESPESOR		PESO		DIÁMETRO INTERIOR		T I P O	C E D U L A	A	B	X42	X46	X52	X56	X60	X65	X70	X80				
ASTM	API		in	mm	Lb/ft	Kg/m	in			mm	30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000			
	in	mm									30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000			
6	6	5/8	168.28	0.250	6.35	17.04	25.38	6.125	155.58														
				0.280	7.11	18.99	28.29	6.065	154.05	STD	40	1,360	1,580	2,380	2,600	2,940	3,000	3,000	3,000	3,000	3,000	3,000	
				0.312	7.92	21.06	31.37	6.001	152.43			1,700	1,980	2,970	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.344	8.74	23.1	34.41	5.937	150.80			1,870	2,180	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.375	9.53	25.05	37.31	5.875	149.23			2,040	2,380	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.432	10.97	28.6	42.60	5.761	146.33	XS	80	2,350	2,740	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.500	12.70	32.74	48.77	5.625	142.88			2,720	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.562	14.27	36.43	54.26	5.501	139.73		120	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.625	15.88	40.09	59.71	5.375	136.53			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.719	18.26	45.39	67.61	5.187	131.75			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.750	19.05	47.10	70.16	5.125	130.18			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.864	21.95	53.21	79.26	4.897	124.38			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
				0.875	22.23	53.78	80.11	4.875	123.83			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
8	8	5/8	219.08	0.250	6.35	22.38	33.34	8.125	206.38		20	1,040	1,220	1,830	2,000	2,260	2,430	2,610	2,830	3,000	3,000		
				0.277	7.04	24.72	36.82	8.071	205.00		30	1,160	1,350	2,020	2,220	2,510	2,700	2,890	3,000	3,000	3,000	3,000	
				0.312	7.92	27.73	41.30	8.001	203.23			1,300	1,520	2,280	2,500	2,820	3,000	3,000	3,000	3,000	3,000	3,000	
				0.322	8.18	28.58	42.57	7.981	202.72	STD	40	1,340	1,570	2,350	2,580	2,910	3,000	3,000	3,000	3,000	3,000	3,000	
				0.344	8.74	30.45	45.36	7.937	201.60			1,440	1,680	2,510	2,750	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.375	9.53	33.07	49.26	7.875	200.03			1,570	1,830	2,740	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.406	10.31	35.64	53.09	7.813	198.45		60	1,690	1,980	2,970	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.438	11.13	38.33	57.09	7.749	196.82			1,830	2,130	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.500	12.70	43.43	64.69	7.625	193.68	XS	80	2,090	2,430	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.562	14.27	48.44	72.15	7.501	190.53			2,350	2,740	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.594	15.09	50.95	75.89	7.437	188.90		100	2,480	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.625	15.88	53.45	79.61	7.375	187.33			2,610	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.719	18.26	60.77	90.52	7.187	182.55		120	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.750	19.05	63.14	94.05	7.125	180.98			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
				0.812	20.62	67.82	101.02	7.001	177.83		140	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
0.875	22.23	72.49	107.97	6.875	174.63			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000					
1.000	25.40	81.51	121.41	6.625	168.28			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000					
10	10	3/4	273.05	0.250	6.35	28.06	41.80	10.250	260.35		20	840	980	1,660	1,820	2,060	2,210	2,370	2,570	2,770	3,000		
				0.279	7.09	31.23	46.52	10.192	258.88			930	1,090	1,850	2,030	2,290	2,470	2,650	2,870	3,000	3,000		
				0.307	7.80	34.27	51.05	10.136	257.45		30	1,030	1,200	2,040	2,230	2,520	2,720	2,910	3,000	3,000	3,000		
				0.344	8.74	38.27	57.00	10.062	255.57			1,150	1,340	2,280	2,500	2,830	3,000	3,000	3,000	3,000	3,000		
				0.365	9.27	40.52	60.35	10.020	254.51	STD	40	1,220	1,430	2,420	2,660	3,000	3,000	3,000	3,000	3,000	3,000		
				0.438	11.13	48.28	71.91	9.874	250.80			1,470	1,710	2,910	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.500	12.70	54.79	81.61	9.750	247.65	XS	60	1,670	1,950	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.562	14.27	61.21	91.17	9.626	244.50			1,880	2,200	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.594	15.09	64.43	95.97	9.562	242.87		80	1,990	2,320	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.625	15.88	67.65	100.76	9.500	241.30			2,090	2,440	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.719	18.26	77.1	114.84	9.312	236.52		100	2,410	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.812	20.62	86.26	128.48	9.126	231.80			2,720	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.844	21.44	89.29	133.00	9.062	230.17		120	2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.875	22.23	92.37	137.59	9.000	228.60			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				0.938	23.83	98.39	146.55	8.874	225.40			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				1.000	25.40	104.23	155.25	8.750	222.25			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		
				1.250	31.75	126.94	189.08	8.250	209.55			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000		

DIÁMETRO EXTERIOR		ESPESOR		PESO		DIÁMETRO INTERIOR		T I P O	C E D U L A	A	B	X42	X46	X52	X56	X60	X65	X70	X80			
ASTM	API		in	mm	Lb/ft	Kg/m	in			mm	30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000		
	in	mm																				
12	12 3/4	323.85	0.375	9.53	49.61	73.89	12.000	304.80	STD		1,060	1,240	2,100	2,300	2,600	2,800	3,000	3,000	3,000	3,000		
			0.406	10.31	53.57	79.79	11.938	303.23		40	1,150	1,340	2,270	2,490	2,810	3,000	3,000	3,000	3,000	3,000	3,000	
			0.438	11.13	57.65	85.87	11.874	301.60			1,240	1,440	2,450	2,690	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.500	12.70	65.48	97.53	11.750	298.45		xs	1,410	1,650	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.562	14.27	73.22	109.06	11.626	295.30		60	1,590	1,850	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
			0.625	15.88	81.01	120.66	11.500	292.10			1,760	2,060	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.688	17.48	88.71	132.13	11.374	288.90			1,940	2,270	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.750	19.05	96.21	143.30	11.250	285.75			2,120	2,470	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.812	20.62	103.63	154.36	11.126	282.60			2,290	2,670	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.844	21.44	107.32	159.85	11.062	280.97			2,380	2,780	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.875	22.23	111.08	165.45	11.000	279.40			2,470	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.938	23.83	118.44	176.42	10.874	276.20			2,650	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.000	25.40	125.61	187.10	10.750	273.05			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.062	26.97	132.69	197.64	10.626	269.90			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.125	28.58	139.81	208.25	10.500	266.70			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.250	31.75	153.67	228.89	10.250	260.35			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
14	14	355.60	0.375	9.53	54.62	81.36	13.250	336.55	STD	30	960	1,130	1,910	2,090	2,370	2,550	2,730	2,960	3,000	3,000		
			0.406	10.31	59	87.88	13.188	334.98			1,040	1,220	2,070	2,270	2,560	2,760	2,960	3,000	3,000	3,000	3,000	
			0.438	11.13	63.5	94.58	13.124	333.35			1,130	1,310	2,230	2,450	2,770	2,980	3,000	3,000	3,000	3,000	3,000	
			0.469	11.91	67.84	101.05	13.062	331.77			1,210	1,410	2,390	2,620	2,960	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.500	12.70	72.16	107.48	13.000	330.20		xs	1,290	1,500	2,550	2,790	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.562	14.27	80.73	120.25	12.876	327.05			1,450	1,690	2,870	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.594	15.09	85.05	126.68	12.812	325.42			1,530	1,780	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.625	15.88	89.36	133.10	12.750	323.85			1,610	1,880	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.688	17.48	97.91	145.84	12.624	320.65			1,770	2,060	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.750	19.05	106.23	158.23	12.500	317.50			1,930	2,250	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.812	20.62	114.48	170.52	12.376	314.35			2,090	2,440	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.875	22.23	122.77	182.87	12.250	311.15			2,250	2,630	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			0.938	23.83	130.98	195.09	12.124	307.95			2,410	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.000	25.40	138.97	207.00	12.000	304.80			2,570	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.062	26.97	146.88	218.78	11.876	301.65			2,730	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
			1.125	28.58	154.84	230.63	11.750	298.45			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
1.250	31.75	170.37	253.77	11.500	292.10			2,800	2,800	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000			
16	16	406.40	0.375	9.53	62.64	93.30	15.250	387.35	STD	30	840	980	1,670	1,830								
			0.406	10.31	67.68	100.81	15.188	385.78			910	1,070	1,810	1,980								
			0.438	11.13	72.86	108.52	15.124	384.15			990	1,150	1,950	2,140								
			0.469	11.91	77.87	115.99	15.062	382.57			1,060	1,230	2,090	2,290								
			0.500	12.70	82.85	123.41	15.000	381.00		xs	1,130	1,310	2,230	2,440								
			0.562	14.27	92.75	138.15	14.876	377.85			1,260	1,480	2,510	2,750								
			0.625	15.88	102.72	153.00	14.750	374.65			1,410	1,640	2,790	3,000								
			0.656	16.66	107.5	160.12	14.688	373.08			1,480	1,720	2,930	3,000								
			0.688	17.48	112.62	167.75	14.624	371.45			1,550	1,810	3,000	3,000								
			0.750	19.05	122.27	182.12	14.500	368.30			1,690	1,970	3,000	3,000								
			0.812	20.62	131.84	196.38	14.376	365.15			1,830	2,130	3,000	3,000								
			0.844	21.44	136.61	203.48	14.312	363.52			1,900	2,220	3,000	3,000								
			0.875	22.23	141.48	210.73	14.250	361.95			1,970	2,300	3,000	3,000								

Tubería de Conducción

PRESIÓN DE PRUEBA HIDROSTÁTICA (psi)

DIÁMETRO EXTERIOR		ESPESOR		PESO		DIÁMETRO INTERIOR		TIPO	C E L L U L A	A	B	X42	X46	X52	X56	X60	X65	X70	X80		
ASTM	API		in	mm	Lb/ft	Kg/m	in			mm	30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000	
	in	mm																			
18	18	457.20	0.406	10.31	76.36	113.74	17.188	436.58		810	950	1,610	1,760								
			0.438	11.13	82.23	122.48	17.124	434.95	30	880	1,020	1,740	1,900								
			0.469	11.91	87.89	130.91	17.062	433.37		940	1,090	1,860	2,040								
			0.500	12.70	93.54	139.33	17.000	431.80	xs	1,000	1,170	1,980	2,170								
			0.562	14.27	104.76	156.04	16.876	428.65	40	1,120	1,310	2,230	2,440								
			0.625	15.88	116.09	172.92	16.750	425.45		1,250	1,460	2,480	2,720								
			0.688	17.48	127.32	189.64	16.624	422.25		1,380	1,610	2,730	2,990								
			0.750	19.05	138.30	206.00	16.500	419.10	60	1,500	1,750	2,980	3,000								
			0.812	20.62	149.20	222.23	16.376	415.95		1,620	1,890	3,000	3,000								
			0.875	22.23	160.18	238.59	16.250	412.75		1,750	2,040	3,000	3,000								
			0.938	23.83	171.08	254.82	16.124	409.55		1,880	2,190	3,000	3,000								
			1.000	25.40	181.73	270.69	16.000	406.40		2,000	2,330	3,000	3,000								
20	20	508.00	0.438	11.13	91.59	136.42	19.124	485.75		790	920	1,660	1,660								
			0.469	11.91	97.92	145.85	19.062	484.17		840	980	1,770	1,770								
			0.500	12.70	104.23	155.25	19.000	482.60	xs	900	1,050	1,890	1,890								
			0.562	14.27	116.78	173.94	18.876	479.45		1,010	1,180	2,120	2,120								
			0.594	15.09	123.11	183.37	18.812	477.82	40	1,070	1,250	2,250	2,250								
			0.625	15.88	129.45	192.82	18.750	476.25		1,130	1,310	2,360	2,360								
			0.688	17.48	142.03	211.55	18.624	473.05		1,240	1,440	2,600	2,600								
			0.750	19.05	154.34	229.89	18.500	469.90		1,350	1,580	2,840	2,840								
			0.812	20.62	166.56	248.09	18.376	466.75		1,460	1,710	3,000	3,000								
			0.875	22.23	178.89	266.46	18.250	463.55		1,580	1,840	3,000	3,000								
			0.938	23.83	191.14	284.70	18.124	460.35		1,690	1,970	3,000	3,000								
			1.000	25.40	203.11	302.53	18.000	457.20		1,800	2,100	3,000	3,000								

NICA/Rev 02 - Julio '01

Notas.-

*: El valor mínimo de Fluencia especificado para cada grado de acero se indica en psi, como se ilustra:

TIPO:

STD.- Pared normal "standard"
XS .- Pared de alto espesor "extra strong"
XXS.- Pared de gran espesor "doble extra strong"

"in": pulgada
 "mm": milímetro
 "psi": libras por pulgada cuadrada
 "lb/ft": Peso en libras por pie
 "kg/m": Peso en kilogramos por metro

A	B	X42	X46	X52	X56	X60	X65	X70	X80
30,000	35,000	42,000	46,000	52,000	56,000	60,000	65,000	70,000	80,000

GRADOS DE ACERO **A25** y **X90**: Disponibles previa solicitud

GRADOS DE ACERO PARA **SERVICIO AMARGO**: Hasta **X52** disponibles en todos los diámetros; **Hasta X70** disponibles para diámetros menores o iguales a 14"

API: API 5L, Ed. 2000 Los datos provenientes de esta especificación van indicados en fuente normal

ASTM: ASME B36-10M, Ed. 1995 Los datos provenientes de esta especificación van indicados en fuente *cursiva*