

Coiled Tubing CT110

Designation		Wall Thickness		Mass per Unit Length	Calculated Inside Diameter	Tubing Area (Sq.in)		Tube Load Body		Internal Pressure (psi)		Collapse Strength	Internal Capacity per 1000ft		Torsional Yield	
		Specified	Min			wpe	d	W/min.	Internal min.	Yield min	Tensile min					Hydro Test 90%
				OD	WT							inch	inch	lb/ft	inch	
3/4	0.750	0.080	0.080	0.076	0.57	0.590	0.161	0.281	18,500	19,400	19,300	21,400	19,700	14.19	0.34	261
	0.750	0.083	0.083	0.079	0.59	0.584	0.167	0.275	19,100	20,000	20,300	22,500	20,700	13.91	0.33	268
	0.750	0.087	0.087	0.083	0.62	0.576	0.174	0.268	19,900	20,800	21,200	23,500	21,600	13.53	0.32	277
	0.750	0.095	0.095	0.090	0.67	0.560	0.187	0.255	21,500	22,500	23,000	25,600	23,300	12.79	0.30	292
	0.750	0.102	0.102	0.097	0.71	0.546	0.199	0.243	22,800	23,900	24,900	27,700	25,100	12.16	0.29	306
	0.750	0.109	0.109	0.104	0.75	0.532	0.211	0.231	24,100	25,200	25,800	28,700	25,900	11.54	0.27	319
	0.750	0.118	0.118	0.113	0.80	0.514	0.226	0.216	25,800	26,900	27,500	30,600	27,600	10.77	0.26	334
1	1.000	0.075	0.075	0.071	0.74	0.850	0.207	0.578	24,000	25,100	13,900	15,400	12,900	29.46	0.70	476
	1.000	0.080	0.080	0.076	0.79	0.840	0.221	0.565	25,400	26,600	14,600	16,200	14,300	28.77	0.69	502
	1.000	0.083	0.083	0.079	0.81	0.834	0.229	0.557	26,300	27,500	15,400	17,100	15,700	28.36	0.68	517
	1.000	0.087	0.087	0.083	0.85	0.826	0.239	0.546	27,400	28,700	16,100	17,900	16,700	27.82	0.66	536
	1.000	0.095	0.095	0.090	0.92	0.810	0.257	0.528	29,700	31,100	17,600	19,500	18,100	26.75	0.64	569
	1.000	0.102	0.102	0.097	0.98	0.796	0.275	0.510	31,700	33,100	19,100	21,200	19,500	25.83	0.62	601
	1.000	0.109	0.109	0.104	1.04	0.782	0.293	0.493	33,600	35,100	19,800	22,000	20,200	24.93	0.59	630
	1.000	0.118	0.118	0.113	1.11	0.764	0.315	0.471	36,000	37,600	21,200	23,500	21,600	23.80	0.57	666
	1.000	0.125	0.125	0.118	1.17	0.750	0.327	0.458	37,800	39,500	22,600	25,100	22,900	22.93	0.55	685
	1.000	0.134	0.134	0.127	1.24	0.732	0.348	0.437	40,100	41,900	23,900	26,600	24,200	21.85	0.52	717
1-1/4	1.250	0.075	0.075	0.071	0.94	1.100	0.263	0.964	30,500	31,800	11,200	12,400	7,900	49.34	1.18	777
	1.250	0.080	0.080	0.076	1.00	1.090	0.280	0.947	32,300	33,800	11,700	13,000	9,000	48.44	1.15	821
	1.250	0.087	0.087	0.083	1.08	1.076	0.304	0.923	35,000	36,600	13,000	14,400	11,200	47.21	1.12	882
	1.250	0.095	0.095	0.090	1.17	1.060	0.328	0.899	37,900	39,600	14,100	15,700	13,400	45.81	1.09	940
	1.250	0.102	0.102	0.097	1.25	1.046	0.351	0.876	40,500	42,300	15,300	17,000	15,600	44.61	1.06	996
	1.250	0.109	0.109	0.104	1.33	1.032	0.374	0.853	43,000	44,900	15,900	17,700	16,500	43.42	1.03	1049
	1.250	0.118	0.118	0.113	1.43	1.014	0.404	0.824	46,200	48,300	17,100	19,000	17,600	41.92	1.00	1115
	1.250	0.125	0.125	0.118	1.50	1.000	0.420	0.808	48,600	50,800	18,300	20,300	18,800	40.77	0.97	1151
	1.250	0.134	0.134	0.127	1.60	0.982	0.448	0.779	51,700	54,000	19,400	21,600	19,900	39.32	0.94	1211
	1.250	0.145	0.145	0.138	1.71	0.960	0.482	0.745	55,400	57,900	21,200	23,500	21,500	37.58	0.90	1281

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		Specified	Min			wpe	d	W/min.	Internal min.	Yield min	Tensile min					Hydro Test 90%
				OD	WT							inch	inch	lb/ft	inch	
1-1/4	1.250	0.156	0.156	0.148	1.82	0.938	0.512	0.715	59,000	61,700	22,900	25,400	23,100	35.87	0.85	1341
	1.250	0.175	0.175	0.167	2.01	0.900	0.568	0.659	65,000	68,000	25,000	27,800	25,200	33.03	0.79	1444
1-1/2	1.500	0.087	0.087	0.083	1.31	1.326	0.369	1.398	42,500	44,400	10,800	12,000	7,400	71.69	1.71	1313
	1.500	0.095	0.095	0.090	1.43	1.310	0.399	1.368	46,100	48,200	11,900	13,200	9,300	69.97	1.67	1404
	1.500	0.102	0.102	0.097	1.52	1.296	0.428	1.340	49,300	51,500	12,900	14,300	11,100	68.48	1.63	1492
	1.500	0.109	0.109	0.104	1.62	1.282	0.456	1.311	52,400	54,800	13,400	14,900	12,000	67.01	1.60	1577
	1.500	0.118	0.118	0.113	1.74	1.264	0.492	1.275	56,400	58,900	14,400	16,000	13,800	65.14	1.55	1682
	1.500	0.125	0.125	0.118	1.84	1.250	0.512	1.255	59,400	62,100	15,400	17,100	15,700	63.71	1.52	1739
	1.500	0.134	0.134	0.127	1.96	1.232	0.548	1.219	63,300	66,100	16,400	18,200	16,900	61.89	1.47	1837
	1.500	0.145	0.145	0.138	2.10	1.210	0.590	1.177	67,900	71,000	17,800	19,800	18,300	59.70	1.42	1952
	1.500	0.156	0.156	0.148	2.24	1.188	0.629	1.139	72,500	75,700	19,300	21,400	19,700	57.55	1.37	2051
	1.500	0.175	0.175	0.167	2.48	1.150	0.699	1.068	80,100	83,800	21,200	23,500	21,600	53.92	1.28	2226
	1.500	0.188	0.188	0.180	2.64	1.124	0.746	1.021	85,200	89,100	22,600	25,100	22,900	51.51	1.23	2337
	1.500	0.204	0.204	0.194	2.83	1.092	0.796	0.971	91,400	95,500	24,500	27,200	24,600	48.62	1.16	2448
1-3/4	1.750	0.095	0.095	0.090	1.68	1.560	0.469	1.936	54,300	56,800	10,200	11,300	6,200	99.23	2.36	1961
	1.750	0.102	0.102	0.097	1.80	1.546	0.504	1.902	58,100	60,700	11,100	12,300	7,800	97.45	2.32	2088
	1.750	0.109	0.109	0.104	1.91	1.532	0.538	1.867	61,800	64,600	11,500	12,800	8,600	95.70	2.28	2212
	1.750	0.118	0.118	0.113	2.06	1.514	0.581	1.824	66,500	69,600	12,300	13,700	10,200	93.46	2.23	2366
	1.750	0.125	0.125	0.118	2.17	1.500	0.605	1.800	70,200	73,400	13,200	14,700	11,700	91.74	2.19	2449
	1.750	0.134	0.134	0.127	2.31	1.482	0.648	1.758	74,800	78,200	14,000	15,600	13,300	89.55	2.13	2595
	1.750	0.145	0.145	0.138	2.49	1.460	0.699	1.706	80,400	84,100	15,300	17,000	15,600	86.91	2.07	2766
	1.750	0.156	0.156	0.148	2.66	1.438	0.745	1.660	85,900	89,800	16,700	18,500	17,200	84.31	2.01	2915
	1.750	0.175	0.175	0.167	2.95	1.400	0.831	1.575	95,200	99,600	18,300	20,300	18,800	79.92	1.90	3182
	1.750	0.188	0.188	0.180	3.14	1.374	0.888	1.517	101,500	106,100	19,500	21,700	20,000	76.97	1.83	3352
	1.750	0.204	0.204	0.194	3.37	1.342	0.948	1.457	109,000	113,900	21,200	23,500	21,500	73.43	1.75	3526
	1.750	0.224	0.224	0.214	3.65	1.302	1.033	1.373	118,100	123,500	23,100	25,700	23,400	69.12	1.65	3755
1.750	0.250	0.250	0.240	4.01	1.250	1.139	1.267	129,600	135,500	25,900	28,800	26,000	63.71	1.52	4024	

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Designation		Wall Thickness		Mass per Unit Length	Calculated Inside Diameter	Tubing Area (Sq.in)		Tube Load Body		Internal Pressure (psi)		Collapse Strength	Internal Capacity per 1000ft		Torsional Yield	
		Specified	Min			wpe	d	W/min.	Internal min.	Yield min	Tensile min					Hydro Test 90%
				OD	WT							inch	inch	lb/ft	inch	
2	2.000	0.109	0.109	0.104	2.20	1.782	0.619	2.522	71,200	74,500	10,100	11,200	6,000	129.48	3.08	2955
	2.000	0.118	0.118	0.113	2.37	1.764	0.670	2.472	76,700	80,200	10,800	12,000	7,400	126.87	3.02	3167
	2.000	0.125	0.125	0.118	2.51	1.750	0.698	2.444	81,000	84,700	11,600	12,900	8,800	124.87	2.97	3282
	2.000	0.134	0.134	0.127	2.67	1.732	0.747	2.394	86,400	90,300	12,300	13,700	10,200	122.31	2.91	3484
	2.000	0.145	0.145	0.138	2.88	1.710	0.807	2.334	93,000	97,200	13,500	15,000	12,200	119.23	2.84	3723
	2.000	0.156	0.156	0.148	3.08	1.688	0.861	2.280	99,400	103,900	14,600	16,200	14,300	116.18	2.77	3932
	2.000	0.175	0.175	0.167	3.41	1.650	0.962	2.180	110,400	115,400	16,100	17,900	16,700	111.01	2.64	4310
	2.000	0.188	0.188	0.180	3.64	1.624	1.029	2.112	117,700	123,100	17,200	19,100	17,700	107.53	2.56	4554
	2.000	0.204	0.204	0.194	3.92	1.592	1.101	2.041	126,600	132,400	18,600	20,700	19,200	103.34	2.46	4804
	2.000	0.224	0.224	0.214	4.25	1.552	1.201	1.941	137,500	143,700	20,400	22,700	20,900	98.21	2.34	5140
	2.000	0.250	0.250	0.240	4.68	1.500	1.327	1.815	151,200	158,100	23,000	25,500	23,200	91.74	2.19	5539
	2.000	0.276	0.276	0.266	5.09	1.448	1.449	1.693	164,400	171,900	24,700	27,400	24,900	85.49	2.04	5900
2.000	0.281	0.281	0.271	5.16	1.438	1.472	1.670	166,900	174,500	25,000	27,800	25,200	84.31	2.01	5965	
2-3/8	2.375	0.109	0.109	0.104	2.64	2.157	0.742	3.688	85,400	89,200	8,600	9,500	3,900	189.70	4.52	4272
	2.375	0.118	0.118	0.113	2.85	2.139	0.803	3.627	92,000	96,200	9,200	10,200	4,700	186.55	4.44	4589
	2.375	0.125	0.125	0.118	3.01	2.125	0.837	3.593	97,200	101,600	9,800	10,900	5,500	184.12	4.39	4761
	2.375	0.134	0.134	0.127	3.21	2.107	0.897	3.533	103,800	108,500	10,400	11,600	6,700	181.01	4.31	5066
	2.375	0.145	0.145	0.138	3.46	2.085	0.970	3.460	111,700	116,800	11,400	12,700	8,400	177.25	4.22	5427
	2.375	0.156	0.156	0.148	3.70	2.063	1.035	3.395	119,600	125,100	12,300	13,700	10,200	173.53	4.13	5747
	2.375	0.175	0.175	0.167	4.12	2.025	1.158	3.272	133,000	139,100	13,700	15,200	12,500	167.20	3.98	6328
	2.375	0.188	0.188	0.180	4.40	1.999	1.241	3.189	142,100	148,500	14,600	16,200	14,200	162.93	3.88	6707
	2.375	0.204	0.204	0.194	4.73	1.967	1.329	3.101	153,000	160,000	15,800	17,600	16,400	157.76	3.76	7100
	2.375	0.224	0.224	0.214	5.15	1.927	1.453	2.977	166,500	174,100	17,400	19,300	17,900	151.40	3.61	7633
	2.375	0.250	0.250	0.240	5.68	1.875	1.610	2.820	183,600	191,900	19,500	21,700	20,000	143.34	3.42	8278
	2.375	0.276	0.276	0.266	6.19	1.823	1.762	2.668	200,200	209,300	21,100	23,400	21,400	135.50	3.23	8872
2.375	0.281	0.281	0.271	6.29	1.813	1.791	2.639	203,300	212,600	21,300	23,700	21,700	134.02	3.19	8981	
2.375	0.300	0.300	0.288	6.65	1.775	1.888	2.542	215,100	224,900	22,900	25,400	23,100	128.46	3.06	9337	

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		Specified	Min			wpe	d	W/min.	Internal min.	Yield min	Tensile min					Hydro Test 90%
				OD	WT							inch	inch	lb/ft	inch	
2-5/8	2.625	0.118	0.118	0.113	3.15	2.389	0.892	4.520	102,200	106,900	8,300	9,200	3,700	232.71	5.54	5684
	2.625	0.125	0.125	0.118	3.33	2.375	0.929	4.483	108,000	112,900	8,900	9,900	4,400	229.99	5.48	5901
	2.625	0.134	0.134	0.127	3.55	2.357	0.997	4.415	115,400	120,600	9,500	10,500	5,000	226.51	5.40	6285
	2.625	0.145	0.145	0.138	3.84	2.335	1.078	4.334	124,300	129,900	10,400	11,500	6,500	222.31	5.30	6743
	2.625	0.156	0.156	0.148	4.12	2.313	1.152	4.260	133,100	139,200	11,200	12,400	8,100	218.14	5.20	7148
	2.625	0.175	0.175	0.167	4.58	2.275	1.290	4.122	148,200	154,900	12,300	13,700	10,200	211.03	5.03	7890
	2.625	0.188	0.188	0.180	4.90	2.249	1.383	4.029	158,300	165,500	13,200	14,700	11,700	206.23	4.91	8376
	2.625	0.204	0.204	0.194	5.28	2.217	1.482	3.930	170,700	178,400	14,400	16,000	13,800	200.40	4.77	8882
	2.625	0.224	0.224	0.214	5.75	2.177	1.621	3.791	185,900	194,300	15,800	17,500	16,400	193.24	4.60	9572
	2.625	0.250	0.250	0.240	6.35	2.125	1.798	3.614	205,200	214,500	17,700	19,700	18,300	184.12	4.39	10415
	2.625	0.276	0.276	0.266	6.93	2.073	1.971	3.441	224,000	234,200	19,200	21,300	19,600	175.22	4.17	11198
	2.625	0.281	0.281	0.271	7.04	2.063	2.004	3.408	227,600	238,000	19,400	21,600	19,900	173.53	4.13	11343
2.625	0.300	0.300	0.288	7.46	2.025	2.114	3.297	241,000	252,000	20,800	23,100	21,200	167.20	3.98	11817	
2-7/8	2.875	0.134	0.134	0.127	3.93	2.607	1.096	5.395	126,900	132,700	8,600	9,600	4,100	277.11	6.60	7636
	2.875	0.145	0.145	0.138	4.23	2.585	1.187	5.305	136,800	143,000	9,500	10,500	5,000	272.46	6.49	8202
	2.875	0.156	0.156	0.148	4.53	2.563	1.268	5.224	146,600	153,200	10,300	11,400	6,400	267.84	6.38	8703
	2.875	0.175	0.175	0.167	5.05	2.525	1.421	5.071	163,300	170,700	11,300	12,600	8,300	259.96	6.19	9625
	2.875	0.188	0.188	0.180	5.40	2.499	1.524	4.968	174,600	182,500	12,200	13,500	9,700	254.63	6.07	10232
	2.875	0.204	0.204	0.194	5.82	2.467	1.634	4.858	188,300	196,900	13,100	14,600	11,600	248.15	5.91	10866
	2.875	0.224	0.224	0.214	6.35	2.427	1.789	4.703	205,200	214,500	14,500	16,100	14,000	240.17	5.72	11734
	2.875	0.250	0.250	0.240	7.02	2.375	1.987	4.505	226,800	237,100	16,300	18,100	16,800	229.99	5.48	12801
	2.875	0.276	0.276	0.266	7.67	2.323	2.180	4.312	247,900	259,200	17,600	19,500	18,100	220.03	5.24	13800
	2.875	0.281	0.281	0.271	7.79	2.313	2.217	4.275	251,900	263,300	17,800	19,800	18,300	218.14	5.20	13985
2.875	0.300	0.300	0.288	8.26	2.275	2.341	4.151	267,000	279,100	19,100	21,200	19,500	211.03	5.03	14596	
3-1/4	3.250	0.145	0.145	0.138	4.81	2.960	1.349	6.947	155,600	162,700	8,400	9,300	3,800	357.24	8.51	10659
	3.250	0.156	0.156	0.148	5.16	2.938	1.442	6.853	166,800	174,400	9,100	10,100	4,600	351.95	8.39	11325
	3.250	0.175	0.175	0.167	5.75	2.900	1.617	6.678	186,000	194,400	10,000	11,100	5,900	342.90	8.17	12553

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		Specified	Min			W/min.	Internal min.	Yield min	Tensile min	Hydro Test 90%	Internal Yield min.					
		OD	WT	inch	inch	lb/ft	inch	inch ²	inch ²	lb	lb	psig	psig	psig	gal	bar
3-1/4	3.250	0.188	0.188	0.180	6.15	2.874	1.736	6.560	198,900	208,000	10,700	11,900	7,200	336.78	8.02	13367
	3.250	0.204	0.204	0.194	6.64	2.842	1.863	6.433	214,700	224,500	11,700	13,000	8,900	329.32	7.85	14219
	3.250	0.224	0.224	0.214	7.25	2.802	2.041	6.255	234,200	244,900	12,800	14,200	11,000	320.12	7.63	15393
	3.250	0.250	0.250	0.240	8.02	2.750	2.269	6.026	259,200	271,000	14,400	16,000	14,000	308.35	7.35	16847
	3.250	0.276	0.276	0.266	8.77	2.698	2.494	5.802	283,700	296,500	15,600	17,300	16,100	296.80	7.07	18221
	3.250	0.281	0.281	0.271	8.92	2.688	2.536	5.760	288,300	301,400	15,800	17,600	16,400	294.60	7.02	18476
	3.250	0.300	0.300	0.288	9.46	2.650	2.680	5.616	305,800	319,700	16,900	18,800	17,500	286.33	6.82	19323
3-1/2	3.500	0.156	0.156	0.148	5.58	3.188	1.559	8.063	180,300	188,500	8,500	9,400	3,900	414.39	9.87	13264
	3.500	0.175	0.175	0.167	6.22	3.150	1.749	7.872	201,100	210,200	9,300	10,300	4,900	404.57	9.64	14722
	3.500	0.188	0.188	0.180	6.66	3.124	1.877	7.744	215,200	225,000	10,000	11,100	5,800	397.92	9.48	15690
	3.500	0.204	0.204	0.194	7.19	3.092	2.015	7.606	232,400	242,900	10,800	12,000	7,400	389.81	9.29	16706
	3.500	0.224	0.224	0.214	7.84	3.052	2.209	7.412	253,600	265,100	12,000	13,300	9,400	379.79	9.05	18110
	3.500	0.250	0.250	0.240	8.69	3.000	2.458	7.163	280,800	293,500	13,400	14,900	12,100	366.96	8.74	19855
	3.500	0.276	0.276	0.266	9.51	2.948	2.703	6.919	307,500	321,500	14,500	16,100	14,100	354.35	8.44	21513
	3.500	0.281	0.281	0.271	9.67	2.938	2.749	6.872	312,600	326,800	14,800	16,400	14,500	351.95	8.39	21822
	3.500	0.300	0.300	0.288	10.26	2.900	2.906	6.715	331,800	346,800	15,800	17,500	16,400	342.90	8.17	22849

Chemistry Composition

C,% 0.16 max Mn,% 1.65 max P,% 0.025 max S,% 0.005 max Si,% 0.50 max

Mechanical Properties

Tensile Strength: 115,000psi (793MPa) min

Yield Strength: 110,000psi (758MPa) min

Hardness: 290HBW or 30HRC max

Tensile strength & yield strength minimum are calculated on specified wall.

Other dimensions are available on request.