

## Coiled Tubing CT100

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	16,800	18,200	17,600	19,500	17,900	14.19	0.34	237
	0.750	0.083	0.083	0.079	0.59	0.584	0.167	0.275	17,400	18,800	18,400	20,400	18,800	13.91	0.33	244
	0.750	0.087	0.087	0.083	0.62	0.576	0.174	0.268	18,100	19,600	19,300	21,400	19,600	13.53	0.32	252
	0.750	0.095	0.095	0.090	0.67	0.560	0.187	0.255	19,500	21,100	21,000	23,300	21,200	12.79	0.30	266
	0.750	0.102	0.102	0.097	0.71	0.546	0.199	0.243	20,800	22,400	22,600	25,100	22,800	12.16	0.29	278
	0.750	0.109	0.109	0.104	0.75	0.532	0.211	0.231	21,900	23,700	23,400	26,000	23,500	11.54	0.27	290
	0.750	0.118	0.118	0.113	0.80	0.514	0.226	0.216	23,400	25,300	25,000	27,800	25,100	10.77	0.26	304
1	1.000	0.075	0.075	0.071	0.74	0.850	0.207	0.578	21,800	23,500	12,600	14,000	12,000	29.46	0.70	433
	1.000	0.080	0.080	0.076	0.79	0.840	0.221	0.565	23,100	25,000	13,300	14,800	13,300	28.77	0.69	456
	1.000	0.083	0.083	0.079	0.81	0.834	0.229	0.557	23,900	25,800	14,000	15,500	14,500	28.36	0.68	470
	1.000	0.087	0.087	0.083	0.85	0.826	0.239	0.546	25,000	27,000	14,700	16,300	15,200	27.82	0.66	488
	1.000	0.095	0.095	0.090	0.92	0.810	0.257	0.528	27,000	29,200	15,900	17,700	16,500	26.75	0.64	518
	1.000	0.102	0.102	0.097	0.98	0.796	0.275	0.510	28,800	31,100	17,300	19,200	17,700	25.83	0.62	546
	1.000	0.109	0.109	0.104	1.04	0.782	0.293	0.493	30,500	33,000	18,000	20,000	18,400	24.93	0.59	573
	1.000	0.118	0.118	0.113	1.11	0.764	0.315	0.471	32,700	35,300	19,300	21,400	19,600	23.80	0.57	606
	1.000	0.125	0.125	0.118	1.17	0.750	0.327	0.458	34,400	37,100	20,500	22,800	20,800	22.93	0.55	623
	1.000	0.134	0.134	0.127	1.24	0.732	0.348	0.437	36,500	39,400	21,800	24,200	22,000	21.85	0.52	652
1-1/4	1.250	0.075	0.075	0.071	0.94	1.100	0.263	0.964	27,700	29,900	10,100	11,200	7,600	49.34	1.18	706
	1.250	0.080	0.080	0.076	1.00	1.090	0.280	0.947	29,400	31,800	10,700	11,900	8,500	48.44	1.15	747
	1.250	0.087	0.087	0.083	1.08	1.076	0.304	0.923	31,800	34,300	11,800	13,100	10,500	47.21	1.12	802
	1.250	0.095	0.095	0.090	1.17	1.060	0.328	0.899	34,500	37,200	12,900	14,300	12,500	45.81	1.09	854
	1.250	0.102	0.102	0.097	1.25	1.046	0.351	0.876	36,800	39,700	14,000	15,500	14,500	44.61	1.06	905
	1.250	0.109	0.109	0.104	1.33	1.032	0.374	0.853	39,100	42,200	14,500	16,100	15,000	43.42	1.03	954
	1.250	0.118	0.118	0.113	1.43	1.014	0.404	0.824	42,000	45,300	15,600	17,300	16,000	41.92	1.00	1014
	1.250	0.125	0.125	0.118	1.50	1.000	0.420	0.808	44,200	47,700	16,700	18,500	17,100	40.77	0.97	1046
	1.250	0.134	0.134	0.127	1.60	0.982	0.448	0.779	47,000	50,700	17,600	19,600	18,100	39.32	0.94	1101
	1.250	0.145	0.145	0.138	1.71	0.960	0.482	0.745	50,300	54,400	19,300	21,400	19,600	37.58	0.90	1165

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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 <sup>2</sup>
1-1/4	1.250	0.156	0.156	0.148	1.82	0.938	0.512	0.715	53,600	57,900	20,800	23,100	21,000	35.87	0.85	1219
	1.250	0.175	0.175	0.167	2.01	0.900	0.568	0.659	59,100	63,800	22,800	25,300	22,900	33.03	0.79	1313
1-1/2	1.500	0.087	0.087	0.083	1.31	1.326	0.369	1.398	38,600	41,700	9,800	10,900	7,100	71.69	1.71	1194
	1.500	0.095	0.095	0.090	1.43	1.310	0.399	1.368	41,900	45,300	10,800	12,000	8,700	69.97	1.67	1276
	1.500	0.102	0.102	0.097	1.52	1.296	0.428	1.340	44,800	48,400	11,700	13,000	10,400	68.48	1.63	1356
	1.500	0.109	0.109	0.104	1.62	1.282	0.456	1.311	47,600	51,400	12,200	13,500	11,200	67.01	1.60	1433
	1.500	0.118	0.118	0.113	1.74	1.264	0.492	1.275	51,200	55,300	13,100	14,500	12,800	65.14	1.55	1529
	1.500	0.125	0.125	0.118	1.84	1.250	0.512	1.255	54,000	58,300	14,000	15,500	14,500	63.71	1.52	1581
	1.500	0.134	0.134	0.127	1.96	1.232	0.548	1.219	57,500	62,100	14,900	16,500	15,400	61.89	1.47	1670
	1.500	0.145	0.145	0.138	2.10	1.210	0.590	1.177	61,700	66,700	16,200	18,000	16,700	59.70	1.42	1775
	1.500	0.156	0.156	0.148	2.24	1.188	0.629	1.139	65,900	71,100	17,600	19,500	17,900	57.55	1.37	1865
	1.500	0.175	0.175	0.167	2.48	1.150	0.699	1.068	72,800	78,700	19,300	21,400	19,600	53.92	1.28	2024
	1.500	0.188	0.188	0.180	2.64	1.124	0.746	1.021	77,500	83,700	20,500	22,800	20,800	51.51	1.23	2124
	1.500	0.204	0.204	0.194	2.83	1.092	0.796	0.971	83,100	89,700	22,200	24,700	22,400	48.62	1.16	2225
1-3/4	1.750	0.095	0.095	0.090	1.68	1.560	0.469	1.936	49,400	53,300	9,300	10,300	6,000	99.23	2.36	1783
	1.750	0.102	0.102	0.097	1.80	1.546	0.504	1.902	52,800	57,000	10,100	11,200	7,400	97.45	2.32	1898
	1.750	0.109	0.109	0.104	1.91	1.532	0.538	1.867	56,200	60,700	10,400	11,600	8,100	95.70	2.28	2011
	1.750	0.118	0.118	0.113	2.06	1.514	0.581	1.824	60,500	65,300	11,300	12,500	9,500	93.46	2.23	2151
	1.750	0.125	0.125	0.118	2.17	1.500	0.605	1.800	63,800	68,900	12,000	13,300	10,900	91.74	2.19	2226
	1.750	0.134	0.134	0.127	2.31	1.482	0.648	1.758	68,000	73,500	12,800	14,200	12,400	89.55	2.13	2359
	1.750	0.145	0.145	0.138	2.49	1.460	0.699	1.706	73,100	79,000	14,000	15,500	14,500	86.91	2.07	2514
	1.750	0.156	0.156	0.148	2.66	1.438	0.745	1.660	78,100	84,400	15,100	16,800	15,600	84.31	2.01	2650
	1.750	0.175	0.175	0.167	2.95	1.400	0.831	1.575	86,600	93,500	16,700	18,500	17,100	79.92	1.90	2892
	1.750	0.188	0.188	0.180	3.14	1.374	0.888	1.517	92,300	99,600	17,700	19,700	18,200	76.97	1.83	3048
	1.750	0.204	0.204	0.194	3.37	1.342	0.948	1.457	99,100	107,000	19,300	21,400	19,600	73.43	1.75	3205
	1.750	0.224	0.224	0.214	3.65	1.302	1.033	1.373	107,400	116,000	21,100	23,400	21,300	69.12	1.65	3414
1.750	0.250	0.250	0.240	4.01	1.250	1.139	1.267	117,800	127,200	23,600	26,200	23,600	63.71	1.52	3658	

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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	64,800	69,900	9,200	10,200	5,800	129.48	3.08	2686
	2.000	0.118	0.118	0.113	2.37	1.764	0.670	2.472	69,800	75,300	9,800	10,900	7,100	126.87	3.02	2879
	2.000	0.125	0.125	0.118	2.51	1.750	0.698	2.444	73,600	79,500	10,500	11,700	8,300	124.87	2.97	2984
	2.000	0.134	0.134	0.127	2.67	1.732	0.747	2.394	78,600	84,800	11,300	12,500	9,600	122.31	2.91	3168
	2.000	0.145	0.145	0.138	2.88	1.710	0.807	2.334	84,500	91,300	12,200	13,600	11,400	119.23	2.84	3385
	2.000	0.156	0.156	0.148	3.08	1.688	0.861	2.280	90,400	97,600	13,300	14,800	13,300	116.18	2.77	3575
	2.000	0.175	0.175	0.167	3.41	1.650	0.962	2.180	100,300	108,400	14,700	16,300	15,200	111.01	2.64	3918
	2.000	0.188	0.188	0.180	3.64	1.624	1.029	2.112	107,000	115,600	15,700	17,400	16,100	107.53	2.56	4140
	2.000	0.204	0.204	0.194	3.92	1.592	1.101	2.041	115,100	124,300	17,000	18,900	17,400	103.34	2.46	4368
	2.000	0.224	0.224	0.214	4.25	1.552	1.201	1.941	125,000	135,000	18,600	20,700	19,000	98.21	2.34	4673
	2.000	0.250	0.250	0.240	4.68	1.500	1.327	1.815	137,400	148,400	20,900	23,200	21,100	91.74	2.19	5036
	2.000	0.276	0.276	0.266	5.09	1.448	1.449	1.693	149,500	161,400	22,400	24,900	22,600	85.49	2.04	5363
2.000	0.281	0.281	0.271	5.16	1.438	1.472	1.670	151,800	163,900	22,700	25,200	22,900	84.31	2.01	5423	
2-3/8	2.375	0.109	0.109	0.104	2.64	2.157	0.742	3.688	77,600	83,800	7,700	8,600	3,800	189.70	4.52	3884
	2.375	0.118	0.118	0.113	2.85	2.139	0.803	3.627	83,700	90,400	8,300	9,200	4,500	186.55	4.44	4172
	2.375	0.125	0.125	0.118	3.01	2.125	0.837	3.593	88,400	95,400	8,900	9,900	5,400	184.12	4.39	4329
	2.375	0.134	0.134	0.127	3.21	2.107	0.897	3.533	94,300	101,900	9,500	10,500	6,400	181.01	4.31	4605
	2.375	0.145	0.145	0.138	3.46	2.085	0.970	3.460	101,600	109,700	10,400	11,500	8,000	177.25	4.22	4934
	2.375	0.156	0.156	0.148	3.70	2.063	1.035	3.395	108,800	117,500	11,300	12,500	9,600	173.53	4.13	5224
	2.375	0.175	0.175	0.167	4.12	2.025	1.158	3.272	121,000	130,600	12,400	13,800	11,600	167.20	3.98	5753
	2.375	0.188	0.188	0.180	4.40	1.999	1.241	3.189	129,200	139,500	13,200	14,700	13,200	162.93	3.88	6098
	2.375	0.204	0.204	0.194	4.73	1.967	1.329	3.101	139,100	150,300	14,400	16,000	14,900	157.76	3.76	6455
	2.375	0.224	0.224	0.214	5.15	1.927	1.453	2.977	151,400	163,500	15,800	17,600	16,300	151.40	3.61	6939
	2.375	0.250	0.250	0.240	5.68	1.875	1.610	2.820	166,900	180,200	17,700	19,700	18,200	143.34	3.42	7525
	2.375	0.276	0.276	0.266	6.19	1.823	1.762	2.668	182,000	196,600	19,100	21,200	19,500	135.50	3.23	8066
2.375	0.281	0.281	0.271	6.29	1.813	1.791	2.639	184,900	199,600	19,400	21,600	19,700	134.02	3.19	8164	
2.375	0.300	0.300	0.288	6.65	1.775	1.888	2.542	195,600	211,200	20,800	23,100	21,000	128.46	3.06	8488	

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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	92,900	100,400	7,600	8,400	3,600	232.71	5.54	5167
	2.625	0.125	0.125	0.118	3.33	2.375	0.929	4.483	98,200	106,000	8,100	9,000	4,200	229.99	5.48	5364
	2.625	0.134	0.134	0.127	3.55	2.357	0.997	4.415	104,900	113,300	8,600	9,600	4,800	226.51	5.40	5714
	2.625	0.145	0.145	0.138	3.84	2.335	1.078	4.334	113,000	122,000	9,400	10,400	6,200	222.31	5.30	6130
	2.625	0.156	0.156	0.148	4.12	2.313	1.152	4.260	121,000	130,700	10,200	11,300	7,700	218.14	5.20	6498
	2.625	0.175	0.175	0.167	4.58	2.275	1.290	4.122	134,700	145,500	11,300	12,500	9,500	211.03	5.03	7173
	2.625	0.188	0.188	0.180	4.90	2.249	1.383	4.029	143,900	155,400	12,100	13,400	11,000	206.23	4.91	7615
	2.625	0.204	0.204	0.194	5.28	2.217	1.482	3.930	155,200	167,600	13,100	14,500	12,800	200.40	4.77	8075
	2.625	0.224	0.224	0.214	5.75	2.177	1.621	3.791	169,000	182,500	14,300	15,900	14,900	193.24	4.60	8702
	2.625	0.250	0.250	0.240	6.35	2.125	1.798	3.614	186,500	201,500	16,100	17,900	16,600	184.12	4.39	9468
	2.625	0.276	0.276	0.266	6.93	2.073	1.971	3.441	203,700	220,000	17,400	19,300	17,800	175.22	4.17	10180
	2.625	0.281	0.281	0.271	7.04	2.063	2.004	3.408	206,900	223,500	17,600	19,600	18,100	173.53	4.13	10311
2.625	0.300	0.300	0.288	7.46	2.025	2.114	3.297	219,100	236,700	18,900	21,000	19,200	167.20	3.98	10743	
2-7/8	2.875	0.134	0.134	0.127	3.93	2.607	1.096	5.395	115,400	124,600	7,800	8,700	3,900	277.11	6.60	6942
	2.875	0.145	0.145	0.138	4.23	2.585	1.187	5.305	124,400	134,300	8,600	9,600	4,800	272.46	6.49	7456
	2.875	0.156	0.156	0.148	4.53	2.563	1.268	5.224	133,300	143,900	9,300	10,300	6,100	267.84	6.38	7912
	2.875	0.175	0.175	0.167	5.05	2.525	1.421	5.071	148,400	160,300	10,300	11,400	7,800	259.96	6.19	8750
	2.875	0.188	0.188	0.180	5.40	2.499	1.524	4.968	158,700	171,400	11,000	12,200	9,100	254.63	6.07	9302
	2.875	0.204	0.204	0.194	5.82	2.467	1.634	4.858	171,200	184,900	12,000	13,300	10,800	248.15	5.91	9878
	2.875	0.224	0.224	0.214	6.35	2.427	1.789	4.703	186,600	201,500	13,100	14,600	13,000	240.17	5.72	10667
	2.875	0.250	0.250	0.240	7.02	2.375	1.987	4.505	206,200	222,700	14,800	16,400	15,300	229.99	5.48	11637
	2.875	0.276	0.276	0.266	7.67	2.323	2.180	4.312	225,400	243,400	15,900	17,700	16,400	220.03	5.24	12546
	2.875	0.281	0.281	0.271	7.79	2.313	2.217	4.275	229,000	247,300	16,200	18,000	16,700	218.14	5.20	12714
2.875	0.300	0.300	0.288	8.26	2.275	2.341	4.151	242,700	262,100	17,400	19,300	17,800	211.03	5.03	13269	
3-1/4	3.250	0.145	0.145	0.138	4.81	2.960	1.349	6.947	141,400	152,800	7,600	8,400	3,700	357.24	8.51	9690
	3.250	0.156	0.156	0.148	5.16	2.938	1.442	6.853	151,600	163,800	8,300	9,200	4,400	351.95	8.39	10295
	3.250	0.175	0.175	0.167	5.75	2.900	1.617	6.678	169,100	182,600	9,100	10,100	5,700	342.90	8.17	11412

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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	
3-1/4	3.250	0.188	0.188	0.180	6.15	2.874	1.736	6.560	180,800	195,300	9,700	10,800	6,900	336.78	8.02	12152
	3.250	0.204	0.204	0.194	6.64	2.842	1.863	6.433	195,200	210,800	10,600	11,800	8,400	329.32	7.85	12926
	3.250	0.224	0.224	0.214	7.25	2.802	2.041	6.255	212,900	230,000	11,600	12,900	10,300	320.12	7.63	13994
	3.250	0.250	0.250	0.240	8.02	2.750	2.269	6.026	235,600	254,500	13,100	14,600	13,000	308.35	7.35	15315
	3.250	0.276	0.276	0.266	8.77	2.698	2.494	5.802	257,900	278,500	14,100	15,700	14,700	296.80	7.07	16564
	3.250	0.281	0.281	0.271	8.92	2.688	2.536	5.760	262,100	283,100	14,400	16,000	14,900	294.60	7.02	16796
	3.250	0.300	0.300	0.288	9.46	2.650	2.680	5.616	278,000	300,300	15,400	17,100	15,900	286.33	6.82	17567
3-1/2	3.500	0.156	0.156	0.148	5.58	3.188	1.559	8.063	163,900	177,000	7,700	8,500	3,700	414.39	9.87	12058
	3.500	0.175	0.175	0.167	6.22	3.150	1.749	7.872	182,800	197,400	8,500	9,400	4,600	404.57	9.64	13384
	3.500	0.188	0.188	0.180	6.66	3.124	1.877	7.744	195,600	211,300	9,100	10,100	5,700	397.92	9.48	14264
	3.500	0.204	0.204	0.194	7.19	3.092	2.015	7.606	211,200	228,100	9,800	10,900	7,100	389.81	9.29	15187
	3.500	0.224	0.224	0.214	7.84	3.052	2.209	7.412	230,500	249,000	10,900	12,100	8,800	379.79	9.05	16464
	3.500	0.250	0.250	0.240	8.69	3.000	2.458	7.163	255,300	275,700	12,200	13,600	11,300	366.96	8.74	18050
	3.500	0.276	0.276	0.266	9.51	2.948	2.703	6.919	279,500	301,900	13,200	14,700	13,100	354.35	8.44	19557
	3.500	0.281	0.281	0.271	9.67	2.938	2.749	6.872	284,200	306,900	13,400	14,900	13,400	351.95	8.39	19838
	3.500	0.300	0.300	0.288	10.26	2.900	2.906	6.715	301,600	325,700	14,400	16,000	14,900	342.90	8.17	20772

### 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: 108,000psi (758MPa) min

Yield Strength: 100,000psi (689MPa) min

Hardness: 28HRC max

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

Other dimensions are available on request.