

## Coiled Tubing CT80

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			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>	inch <sup>2</sup>	lb	lb	psig	psig	psig	gal	bar
3/4	0.750	0.080	0.080	0.076	0.57	0.590	0.161	0.281	13,500	15,200	14,000	15,600	14,400	14.19	0.34	190
	0.750	0.083	0.083	0.079	0.59	0.584	0.167	0.275	13,900	15,700	14,700	16,300	15,000	13.91	0.33	195
	0.750	0.087	0.087	0.083	0.62	0.576	0.174	0.268	14,500	16,300	15,400	17,100	15,700	13.53	0.32	202
	0.750	0.095	0.095	0.090	0.67	0.560	0.187	0.255	15,600	17,600	16,700	18,600	17,000	12.79	0.30	212
	0.750	0.102	0.102	0.097	0.71	0.546	0.199	0.243	16,600	18,700	18,100	20,100	18,300	12.16	0.29	223
	0.750	0.109	0.109	0.104	0.75	0.532	0.211	0.231	17,600	19,800	18,700	20,800	18,900	11.54	0.27	232
	0.750	0.118	0.118	0.113	0.80	0.514	0.226	0.216	18,700	21,100	20,100	22,300	20,100	10.77	0.26	243
1	1.000	0.075	0.075	0.071	0.74	0.850	0.207	0.578	17,400	19,600	10,100	11,200	10,100	29.46	0.70	346
	1.000	0.080	0.080	0.076	0.79	0.840	0.221	0.565	18,500	20,800	10,600	11,800	11,100	28.77	0.69	365
	1.000	0.083	0.083	0.079	0.81	0.834	0.229	0.557	19,100	21,500	11,200	12,400	11,600	28.36	0.68	376
	1.000	0.087	0.087	0.083	0.85	0.826	0.239	0.546	20,000	22,500	11,700	13,000	12,100	27.82	0.66	390
	1.000	0.095	0.095	0.090	0.92	0.810	0.257	0.528	21,600	24,300	12,800	14,200	13,200	26.75	0.64	414
	1.000	0.102	0.102	0.097	0.98	0.796	0.275	0.510	23,000	25,900	13,900	15,400	14,200	25.83	0.62	437
	1.000	0.109	0.109	0.104	1.04	0.782	0.293	0.493	24,400	27,500	14,400	16,000	14,700	24.93	0.59	458
	1.000	0.118	0.118	0.113	1.11	0.764	0.315	0.471	26,200	29,400	15,400	17,100	15,700	23.80	0.57	484
	1.000	0.125	0.125	0.118	1.17	0.750	0.327	0.458	27,500	30,900	16,500	18,300	16,700	22.93	0.55	498
	1.000	0.134	0.134	0.127	1.24	0.732	0.348	0.437	29,200	32,800	17,500	19,400	17,600	21.85	0.52	522
1-1/4	1.250	0.075	0.075	0.071	0.94	1.100	0.263	0.964	22,100	24,900	8,100	9,000	6,600	49.34	1.18	565
	1.250	0.080	0.080	0.076	1.00	1.090	0.280	0.947	23,500	26,500	8,600	9,500	7,400	48.44	1.15	597
	1.250	0.087	0.087	0.083	1.08	1.076	0.304	0.923	25,400	28,600	9,500	10,500	8,900	47.21	1.12	641
	1.250	0.095	0.095	0.090	1.17	1.060	0.328	0.899	27,600	31,000	10,300	11,400	10,700	45.81	1.09	684
	1.250	0.102	0.102	0.097	1.25	1.046	0.351	0.876	29,400	33,100	11,200	12,400	11,600	44.61	1.06	724
	1.250	0.109	0.109	0.104	1.33	1.032	0.374	0.853	31,300	35,200	11,600	12,900	12,000	43.42	1.03	763
	1.250	0.118	0.118	0.113	1.43	1.014	0.404	0.824	33,600	37,800	12,400	13,800	12,800	41.92	1.00	811
	1.250	0.125	0.125	0.118	1.50	1.000	0.420	0.808	35,300	39,800	13,300	14,800	13,700	40.77	0.97	837
	1.250	0.134	0.134	0.127	1.60	0.982	0.448	0.779	37,600	42,300	14,100	15,700	14,500	39.32	0.94	881
	1.250	0.145	0.145	0.138	1.71	0.960	0.482	0.745	40,300	45,300	15,400	17,100	15,700	37.58	0.90	932

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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	42,900	48,300	16,700	18,500	16,800	35.87	0.85	975
	1.250	0.175	0.175	0.167	2.01	0.900	0.568	0.659	47,300	53,200	18,200	20,200	18,400	33.03	0.79	1050
1-1/2	1.500	0.087	0.087	0.083	1.31	1.326	0.369	1.398	30,900	34,800	7,900	8,800	6,200	71.69	1.71	955
	1.500	0.095	0.095	0.090	1.43	1.310	0.399	1.368	33,500	37,700	8,600	9,600	7,500	69.97	1.67	1021
	1.500	0.102	0.102	0.097	1.52	1.296	0.428	1.340	35,800	40,300	9,400	10,400	8,800	68.48	1.63	1085
	1.500	0.109	0.109	0.104	1.62	1.282	0.456	1.311	38,100	42,900	9,700	10,800	9,500	67.01	1.60	1147
	1.500	0.118	0.118	0.113	1.74	1.264	0.492	1.275	41,000	46,100	10,400	11,600	10,900	65.14	1.55	1223
	1.500	0.125	0.125	0.118	1.84	1.250	0.512	1.255	43,200	48,600	11,200	12,400	11,600	63.71	1.52	1264
	1.500	0.134	0.134	0.127	1.96	1.232	0.548	1.219	46,000	51,800	11,900	13,200	12,300	61.89	1.47	1336
	1.500	0.145	0.145	0.138	2.10	1.210	0.590	1.177	49,400	55,600	13,000	14,400	13,400	59.70	1.42	1420
	1.500	0.156	0.156	0.148	2.24	1.188	0.629	1.139	52,700	59,300	14,000	15,600	14,400	57.55	1.37	1492
	1.500	0.175	0.175	0.167	2.48	1.150	0.699	1.068	58,300	65,600	15,400	17,100	15,700	53.92	1.28	1619
	1.500	0.188	0.188	0.180	2.64	1.124	0.746	1.021	62,000	69,700	16,500	18,300	16,700	51.51	1.23	1700
	1.500	0.204	0.204	0.194	2.83	1.092	0.796	0.971	66,400	74,800	17,700	19,700	17,900	48.62	1.16	1780
1-3/4	1.750	0.095	0.095	0.090	1.68	1.560	0.469	1.936	39,500	44,500	7,400	8,200	5,400	99.23	2.36	1426
	1.750	0.102	0.102	0.097	1.80	1.546	0.504	1.902	42,200	47,500	8,000	8,900	6,500	97.45	2.32	1519
	1.750	0.109	0.109	0.104	1.91	1.532	0.538	1.867	45,000	50,600	8,400	9,300	7,100	95.70	2.28	1609
	1.750	0.118	0.118	0.113	2.06	1.514	0.581	1.824	48,400	54,400	9,000	10,000	8,200	93.46	2.23	1721
	1.750	0.125	0.125	0.118	2.17	1.500	0.605	1.800	51,100	57,400	9,600	10,700	9,300	91.74	2.19	1781
	1.750	0.134	0.134	0.127	2.31	1.482	0.648	1.758	54,400	61,200	10,300	11,400	10,700	89.55	2.13	1887
	1.750	0.145	0.145	0.138	2.49	1.460	0.699	1.706	58,500	65,800	11,200	12,400	11,600	86.91	2.07	2012
	1.750	0.156	0.156	0.148	2.66	1.438	0.745	1.660	62,500	70,300	12,100	13,400	12,500	84.31	2.01	2120
	1.750	0.175	0.175	0.167	2.95	1.400	0.831	1.575	69,300	77,900	13,300	14,800	13,700	79.92	1.90	2314
	1.750	0.188	0.188	0.180	3.14	1.374	0.888	1.517	73,800	83,000	14,200	15,800	14,600	76.97	1.83	2438
	1.750	0.204	0.204	0.194	3.37	1.342	0.948	1.457	79,300	89,200	15,400	17,100	15,700	73.43	1.75	2564
	1.750	0.224	0.224	0.214	3.65	1.302	1.033	1.373	85,900	96,600	16,800	18,700	17,100	69.12	1.65	2731
1.750	0.250	0.250	0.240	4.01	1.250	1.139	1.267	94,200	106,000	18,800	20,900	18,900	63.71	1.52	2927	

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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	51,800	58,300	7,300	8,100	5,300	129.48	3.08	2149
	2.000	0.118	0.118	0.113	2.37	1.764	0.670	2.472	55,800	62,800	7,900	8,800	6,200	126.87	3.02	2303
	2.000	0.125	0.125	0.118	2.51	1.750	0.698	2.444	58,900	66,300	8,500	9,400	7,200	124.87	2.97	2387
	2.000	0.134	0.134	0.127	2.67	1.732	0.747	2.394	62,800	70,700	9,000	10,000	8,200	122.31	2.91	2534
	2.000	0.145	0.145	0.138	2.88	1.710	0.807	2.334	67,600	76,100	9,800	10,900	9,600	119.23	2.84	2708
	2.000	0.156	0.156	0.148	3.08	1.688	0.861	2.280	72,300	81,300	10,600	11,800	11,100	116.18	2.77	2860
	2.000	0.175	0.175	0.167	3.41	1.650	0.962	2.180	80,300	90,300	11,700	13,000	12,100	111.01	2.64	3135
	2.000	0.188	0.188	0.180	3.64	1.624	1.029	2.112	85,600	96,300	12,500	13,900	12,900	107.53	2.56	3312
	2.000	0.204	0.204	0.194	3.92	1.592	1.101	2.041	92,100	103,600	13,600	15,100	13,900	103.34	2.46	3494
	2.000	0.224	0.224	0.214	4.25	1.552	1.201	1.941	100,000	112,500	14,900	16,500	15,200	98.21	2.34	3738
	2.000	0.250	0.250	0.240	4.68	1.500	1.327	1.815	110,000	123,700	16,700	18,500	16,900	91.74	2.19	4029
	2.000	0.276	0.276	0.266	5.09	1.448	1.449	1.693	119,600	134,500	17,900	19,900	18,100	85.49	2.04	4291
2.000	0.281	0.281	0.271	5.16	1.438	1.472	1.670	121,400	136,600	18,200	20,200	18,300	84.31	2.01	4338	
2-3/8	2.375	0.109	0.109	0.104	2.64	2.157	0.742	3.688	62,100	69,800	6,200	6,900	3,400	189.70	4.52	3107
	2.375	0.118	0.118	0.113	2.85	2.139	0.803	3.627	66,900	75,300	6,700	7,400	4,100	186.55	4.44	3337
	2.375	0.125	0.125	0.118	3.01	2.125	0.837	3.593	70,700	79,500	7,100	7,900	4,900	184.12	4.39	3463
	2.375	0.134	0.134	0.127	3.21	2.107	0.897	3.533	75,500	84,900	7,600	8,400	5,800	181.01	4.31	3684
	2.375	0.145	0.145	0.138	3.46	2.085	0.970	3.460	81,300	91,400	8,300	9,200	7,000	177.25	4.22	3947
	2.375	0.156	0.156	0.148	3.70	2.063	1.035	3.395	87,000	97,900	9,000	10,000	8,200	173.53	4.13	4179
	2.375	0.175	0.175	0.167	4.12	2.025	1.158	3.272	96,800	108,900	9,900	11,000	9,800	167.20	3.98	4602
	2.375	0.188	0.188	0.180	4.40	1.999	1.241	3.189	103,300	116,300	10,600	11,800	11,000	162.93	3.88	4878
	2.375	0.204	0.204	0.194	4.73	1.967	1.329	3.101	111,300	125,200	11,500	12,800	11,900	157.76	3.76	5164
	2.375	0.224	0.224	0.214	5.15	1.927	1.453	2.977	121,100	136,200	12,700	14,100	13,100	151.40	3.61	5551
	2.375	0.250	0.250	0.240	5.68	1.875	1.610	2.820	133,500	150,200	14,200	15,800	14,600	143.34	3.42	6020
	2.375	0.276	0.276	0.266	6.19	1.823	1.762	2.668	145,600	163,800	15,300	17,000	15,600	135.50	3.23	6453
2.375	0.281	0.281	0.271	6.29	1.813	1.791	2.639	147,900	166,400	15,500	17,200	15,800	134.02	3.19	6532	
2.375	0.300	0.300	0.288	6.65	1.775	1.888	2.542	156,500	176,000	16,600	18,400	16,800	128.46	3.06	6791	

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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	74,300	83,600	6,000	6,700	3,200	232.71	5.54	4133
	2.625	0.125	0.125	0.118	3.33	2.375	0.929	4.483	78,500	88,400	6,500	7,200	3,800	229.99	5.48	4291
	2.625	0.134	0.134	0.127	3.55	2.357	0.997	4.415	83,900	94,400	6,800	7,600	4,500	226.51	5.40	4571
	2.625	0.145	0.145	0.138	3.84	2.335	1.078	4.334	90,400	101,700	7,600	8,400	5,600	222.31	5.30	4904
	2.625	0.156	0.156	0.148	4.12	2.313	1.152	4.260	96,800	108,900	8,100	9,000	6,700	218.14	5.20	5199
	2.625	0.175	0.175	0.167	4.58	2.275	1.290	4.122	107,800	121,200	9,000	10,000	8,200	211.03	5.03	5738
	2.625	0.188	0.188	0.180	4.90	2.249	1.383	4.029	115,100	129,500	9,600	10,700	9,300	206.23	4.91	6092
	2.625	0.204	0.204	0.194	5.28	2.217	1.482	3.930	124,100	139,600	10,400	11,600	10,900	200.40	4.77	6460
	2.625	0.224	0.224	0.214	5.75	2.177	1.621	3.791	135,200	152,100	11,400	12,700	11,900	193.24	4.60	6962
	2.625	0.250	0.250	0.240	6.35	2.125	1.798	3.614	149,200	167,900	12,900	14,300	13,300	184.12	4.39	7574
	2.625	0.276	0.276	0.266	6.93	2.073	1.971	3.441	162,900	183,300	14,000	15,500	14,300	175.22	4.17	8144
	2.625	0.281	0.281	0.271	7.04	2.063	2.004	3.408	165,500	186,200	14,100	15,700	14,500	173.53	4.13	8249
2.625	0.300	0.300	0.288	7.46	2.025	2.114	3.297	175,300	197,200	15,100	16,800	15,400	167.20	3.98	8594	
2-7/8	2.875	0.134	0.134	0.127	3.93	2.607	1.096	5.395	92,300	103,800	6,300	7,000	3,500	277.11	6.60	5554
	2.875	0.145	0.145	0.138	4.23	2.585	1.187	5.305	99,500	111,900	6,800	7,600	4,500	272.46	6.49	5965
	2.875	0.156	0.156	0.148	4.53	2.563	1.268	5.224	106,600	119,900	7,500	8,300	5,500	267.84	6.38	6330
	2.875	0.175	0.175	0.167	5.05	2.525	1.421	5.071	118,800	133,600	8,200	9,100	6,800	259.96	6.19	7000
	2.875	0.188	0.188	0.180	5.40	2.499	1.524	4.968	127,000	142,800	8,800	9,800	7,900	254.63	6.07	7442
	2.875	0.204	0.204	0.194	5.82	2.467	1.634	4.858	136,900	154,100	9,500	10,600	9,200	248.15	5.91	7902
	2.875	0.224	0.224	0.214	6.35	2.427	1.789	4.703	149,200	167,900	10,500	11,700	11,000	240.17	5.72	8534
	2.875	0.250	0.250	0.240	7.02	2.375	1.987	4.505	164,900	185,600	11,900	13,200	12,300	229.99	5.48	9310
	2.875	0.276	0.276	0.266	7.67	2.323	2.180	4.312	180,300	202,800	12,800	14,200	13,200	220.03	5.24	10037
	2.875	0.281	0.281	0.271	7.79	2.313	2.217	4.275	183,200	206,100	13,000	14,400	13,300	218.14	5.20	10171
	2.875	0.300	0.300	0.288	8.26	2.275	2.341	4.151	194,200	218,400	13,900	15,400	14,200	211.03	5.03	10615
3-1/4	3.250	0.145	0.145	0.138	4.81	2.960	1.349	6.947	113,200	127,300	6,100	6,800	3,300	357.24	8.51	7752
	3.250	0.156	0.156	0.148	5.16	2.938	1.442	6.853	121,300	136,500	6,600	7,300	4,000	351.95	8.39	8236
	3.250	0.175	0.175	0.167	5.75	2.900	1.617	6.678	135,200	152,200	7,300	8,100	5,200	342.90	8.17	9130

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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>	inch <sup>2</sup>	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	144,700	162,800	7,800	8,700	6,100	336.78	8.02	9721
	3.250	0.204	0.204	0.194	6.64	2.842	1.863	6.433	156,200	175,700	8,500	9,400	7,300	329.32	7.85	10341
	3.250	0.224	0.224	0.214	7.25	2.802	2.041	6.255	170,400	191,700	9,400	10,400	8,800	320.12	7.63	11195
	3.250	0.250	0.250	0.240	8.02	2.750	2.269	6.026	188,500	212,100	10,500	11,700	10,900	308.35	7.35	12252
	3.250	0.276	0.276	0.266	8.77	2.698	2.494	5.802	206,300	232,100	11,300	12,600	11,800	296.80	7.07	13251
	3.250	0.281	0.281	0.271	8.92	2.688	2.536	5.760	209,700	235,900	11,500	12,800	11,900	294.60	7.02	13437
	3.250	0.300	0.300	0.288	9.46	2.650	2.680	5.616	222,400	250,200	12,300	13,700	12,700	286.33	6.82	14053
3-1/2	3.500	0.156	0.156	0.148	5.58	3.188	1.559	8.063	131,100	147,500	6,100	6,800	3,400	414.39	9.87	9647
	3.500	0.175	0.175	0.167	6.22	3.150	1.749	7.872	146,200	164,500	6,800	7,500	4,300	404.57	9.64	10707
	3.500	0.188	0.188	0.180	6.66	3.124	1.877	7.744	156,500	176,100	7,300	8,100	5,100	397.92	9.48	11411
	3.500	0.204	0.204	0.194	7.19	3.092	2.015	7.606	169,000	190,100	7,900	8,800	6,200	389.81	9.29	12150
	3.500	0.224	0.224	0.214	7.84	3.052	2.209	7.412	184,400	207,500	8,600	9,600	7,600	379.79	9.05	13171
	3.500	0.250	0.250	0.240	8.69	3.000	2.458	7.163	204,200	229,700	9,800	10,900	9,600	366.96	8.74	14440
	3.500	0.276	0.276	0.266	9.51	2.948	2.703	6.919	223,600	251,600	10,500	11,700	11,000	354.35	8.44	15646
	3.500	0.281	0.281	0.271	9.67	2.938	2.749	6.872	227,300	255,800	10,700	11,900	11,200	351.95	8.39	15870
	3.500	0.300	0.300	0.288	10.26	2.900	2.906	6.715	241,300	271,400	11,500	12,800	11,900	342.90	8.17	16617

### Chemistry Composition

C,% 0.16 max Mn,% 1.20 max P,% 0.020 max S,% 0.005 max Si,% 0.50 max

### Mechanical Properties

Tensile Strength: 88,000psi (607MPa) min

Yield Strength: 80,000psi (552MPa) min

Hardness: 22HRC max

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

Other dimensions are available on request.