

Coiled Tubing CT70

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	11,800	13,500	12,200	13,600	12,600	14.19	0.34	166
	0.750	0.083	0.083	0.079	0.59	0.584	0.167	0.275	12,200	13,900	12,900	14,300	13,200	13.91	0.33	171
	0.750	0.087	0.087	0.083	0.62	0.576	0.174	0.268	12,700	14,500	13,500	15,000	13,700	13.53	0.32	176
	0.750	0.095	0.095	0.090	0.67	0.560	0.187	0.255	13,700	15,600	14,700	16,300	14,900	12.79	0.30	186
	0.750	0.102	0.102	0.097	0.71	0.546	0.199	0.243	14,500	16,600	15,800	17,600	16,000	12.16	0.29	195
	0.750	0.109	0.109	0.104	0.75	0.532	0.211	0.231	15,400	17,600	16,400	18,200	16,500	11.54	0.27	203
	0.750	0.118	0.118	0.113	0.80	0.514	0.226	0.216	16,400	18,700	17,600	19,500	17,600	10.77	0.26	212
1	1.000	0.075	0.075	0.071	0.74	0.850	0.207	0.578	15,300	17,400	8,800	9,800	9,100	29.46	0.70	303
	1.000	0.080	0.080	0.076	0.79	0.840	0.221	0.565	16,200	18,500	9,300	10,300	9,700	28.77	0.69	319
	1.000	0.083	0.083	0.079	0.81	0.834	0.229	0.557	16,700	19,100	9,800	10,900	10,200	28.36	0.68	329
	1.000	0.087	0.087	0.083	0.85	0.826	0.239	0.546	17,500	20,000	10,300	11,400	10,600	27.82	0.66	341
	1.000	0.095	0.095	0.090	0.92	0.810	0.257	0.528	18,900	21,600	11,200	12,400	11,500	26.75	0.64	362
	1.000	0.102	0.102	0.097	0.98	0.796	0.275	0.510	20,100	23,000	12,200	13,500	12,400	25.83	0.62	382
	1.000	0.109	0.109	0.104	1.04	0.782	0.293	0.493	21,400	24,400	12,600	14,000	12,900	24.93	0.59	401
	1.000	0.118	0.118	0.113	1.11	0.764	0.315	0.471	22,900	26,200	13,500	15,000	13,700	23.80	0.57	424
	1.000	0.125	0.125	0.118	1.17	0.750	0.327	0.458	24,100	27,500	14,400	16,000	14,600	22.93	0.55	436
	1.000	0.134	0.134	0.127	1.24	0.732	0.348	0.437	25,500	29,200	15,300	17,000	15,400	21.85	0.52	456
1-1/4	1.250	0.075	0.075	0.071	0.94	1.100	0.263	0.964	19,400	22,100	7,100	7,900	6,100	49.34	1.18	494
	1.250	0.080	0.080	0.076	1.00	1.090	0.280	0.947	20,600	23,500	7,500	8,300	6,700	48.44	1.15	523
	1.250	0.087	0.087	0.083	1.08	1.076	0.304	0.923	22,300	25,400	8,300	9,200	8,100	47.21	1.12	561
	1.250	0.095	0.095	0.090	1.17	1.060	0.328	0.899	24,100	27,600	9,000	10,000	9,400	45.81	1.09	598
	1.250	0.102	0.102	0.097	1.25	1.046	0.351	0.876	25,800	29,400	9,700	10,800	10,200	44.61	1.06	634
	1.250	0.109	0.109	0.104	1.33	1.032	0.374	0.853	27,400	31,300	10,200	11,300	10,500	43.42	1.03	668
	1.250	0.118	0.118	0.113	1.43	1.014	0.404	0.824	29,400	33,600	10,900	12,100	11,300	41.92	1.00	710
	1.250	0.125	0.125	0.118	1.50	1.000	0.420	0.808	30,900	35,300	11,600	12,900	12,000	40.77	0.97	732
	1.250	0.134	0.134	0.127	1.60	0.982	0.448	0.779	32,900	37,600	12,300	13,700	12,700	39.32	0.94	771
	1.250	0.145	0.145	0.138	1.71	0.960	0.482	0.745	35,200	40,300	13,500	15,000	13,700	37.58	0.90	815

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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
1-1/4	1.250	0.156	0.156	0.148	1.82	0.938	0.512	0.715	37,500	42,900	14,600	16,200	14,700	35.87	0.85	853
	1.250	0.175	0.175	0.167	2.01	0.900	0.568	0.659	41,400	47,300	15,900	17,700	16,100	33.03	0.79	919
1-1/2	1.500	0.087	0.087	0.083	1.31	1.326	0.369	1.398	27,000	30,900	6,900	7,700	5,700	71.69	1.71	836
	1.500	0.095	0.095	0.090	1.43	1.310	0.399	1.368	29,400	33,500	7,600	8,400	6,900	69.97	1.67	893
	1.500	0.102	0.102	0.097	1.52	1.296	0.428	1.340	31,400	35,800	8,200	9,100	8,000	68.48	1.63	949
	1.500	0.109	0.109	0.104	1.62	1.282	0.456	1.311	33,300	38,100	8,600	9,500	8,500	67.01	1.60	1003
	1.500	0.118	0.118	0.113	1.74	1.264	0.492	1.275	35,900	41,000	9,200	10,200	9,500	65.14	1.55	1070
	1.500	0.125	0.125	0.118	1.84	1.250	0.512	1.255	37,800	43,200	9,800	10,900	10,200	63.71	1.52	1106
	1.500	0.134	0.134	0.127	1.96	1.232	0.548	1.219	40,300	46,000	10,400	11,600	10,800	61.89	1.47	1169
	1.500	0.145	0.145	0.138	2.10	1.210	0.590	1.177	43,200	49,400	11,300	12,600	11,700	59.70	1.42	1242
	1.500	0.156	0.156	0.148	2.24	1.188	0.629	1.139	46,100	52,700	12,200	13,600	12,600	57.55	1.37	1305
	1.500	0.175	0.175	0.167	2.48	1.150	0.699	1.068	51,000	58,300	13,500	15,000	13,700	53.92	1.28	1417
	1.500	0.188	0.188	0.180	2.64	1.124	0.746	1.021	54,200	62,000	14,400	16,000	14,600	51.51	1.23	1487
	1.500	0.204	0.204	0.194	2.83	1.092	0.796	0.971	58,100	66,400	15,600	17,300	15,700	48.62	1.16	1558
1-3/4	1.750	0.095	0.095	0.090	1.68	1.560	0.469	1.936	34,600	39,500	6,500	7,200	5,000	99.23	2.36	1248
	1.750	0.102	0.102	0.097	1.80	1.546	0.504	1.902	37,000	42,200	7,000	7,800	6,000	97.45	2.32	1329
	1.750	0.109	0.109	0.104	1.91	1.532	0.538	1.867	39,300	45,000	7,300	8,100	6,500	95.70	2.28	1408
	1.750	0.118	0.118	0.113	2.06	1.514	0.581	1.824	42,300	48,400	7,800	8,700	7,400	93.46	2.23	1506
	1.750	0.125	0.125	0.118	2.17	1.500	0.605	1.800	44,700	51,100	8,400	9,300	8,400	91.74	2.19	1559
	1.750	0.134	0.134	0.127	2.31	1.482	0.648	1.758	47,600	54,400	8,900	9,900	9,300	89.55	2.13	1651
	1.750	0.145	0.145	0.138	2.49	1.460	0.699	1.706	51,200	58,500	9,700	10,800	10,200	86.91	2.07	1760
	1.750	0.156	0.156	0.148	2.66	1.438	0.745	1.660	54,700	62,500	10,500	11,700	10,900	84.31	2.01	1855
	1.750	0.175	0.175	0.167	2.95	1.400	0.831	1.575	60,600	69,300	11,600	12,900	12,000	79.92	1.90	2025
	1.750	0.188	0.188	0.180	3.14	1.374	0.888	1.517	64,600	73,800	12,400	13,800	12,700	76.97	1.83	2133
	1.750	0.204	0.204	0.194	3.37	1.342	0.948	1.457	69,400	79,300	13,500	15,000	13,700	73.43	1.75	2244
	1.750	0.224	0.224	0.214	3.65	1.302	1.033	1.373	75,200	85,900	14,800	16,400	14,900	69.12	1.65	2390
1.750	0.250	0.250	0.240	4.01	1.250	1.139	1.267	82,500	94,200	16,500	18,300	16,600	63.71	1.52	2561	

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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	45,300	51,800	6,400	7,100	4,900	129.48	3.08	1880
	2.000	0.118	0.118	0.113	2.37	1.764	0.670	2.472	48,800	55,800	6,900	7,700	5,700	126.87	3.02	2015
	2.000	0.125	0.125	0.118	2.51	1.750	0.698	2.444	51,500	58,900	7,400	8,200	6,600	124.87	2.97	2089
	2.000	0.134	0.134	0.127	2.67	1.732	0.747	2.394	55,000	62,800	7,800	8,700	7,400	122.31	2.91	2217
	2.000	0.145	0.145	0.138	2.88	1.710	0.807	2.334	59,200	67,600	8,600	9,500	8,700	119.23	2.84	2369
	2.000	0.156	0.156	0.148	3.08	1.688	0.861	2.280	63,300	72,300	9,300	10,300	9,700	116.18	2.77	2502
	2.000	0.175	0.175	0.167	3.41	1.650	0.962	2.180	70,200	80,300	10,300	11,400	10,600	111.01	2.64	2743
	2.000	0.188	0.188	0.180	3.64	1.624	1.029	2.112	74,900	85,600	11,000	12,200	11,300	107.53	2.56	2898
	2.000	0.204	0.204	0.194	3.92	1.592	1.101	2.041	80,600	92,100	11,900	13,200	12,200	103.34	2.46	3057
	2.000	0.224	0.224	0.214	4.25	1.552	1.201	1.941	87,500	100,000	13,100	14,500	13,300	98.21	2.34	3271
	2.000	0.250	0.250	0.240	4.68	1.500	1.327	1.815	96,200	110,000	14,600	16,200	14,800	91.74	2.19	3525
	2.000	0.276	0.276	0.266	5.09	1.448	1.449	1.693	104,600	119,600	15,700	17,400	15,800	85.49	2.04	3754
2.000	0.281	0.281	0.271	5.16	1.438	1.472	1.670	106,200	121,400	15,900	17,700	16,000	84.31	2.01	3796	
2-3/8	2.375	0.109	0.109	0.104	2.64	2.157	0.742	3.688	54,300	62,100	5,400	6,000	3,200	189.70	4.52	2719
	2.375	0.118	0.118	0.113	2.85	2.139	0.803	3.627	58,600	66,900	5,900	6,500	3,900	186.55	4.44	2920
	2.375	0.125	0.125	0.118	3.01	2.125	0.837	3.593	61,900	70,700	6,200	6,900	4,600	184.12	4.39	3030
	2.375	0.134	0.134	0.127	3.21	2.107	0.897	3.533	66,000	75,500	6,700	7,400	5,300	181.01	4.31	3224
	2.375	0.145	0.145	0.138	3.46	2.085	0.970	3.460	71,100	81,300	7,300	8,100	6,400	177.25	4.22	3454
	2.375	0.156	0.156	0.148	3.70	2.063	1.035	3.395	76,100	87,000	7,800	8,700	7,400	173.53	4.13	3657
	2.375	0.175	0.175	0.167	4.12	2.025	1.158	3.272	84,700	96,800	8,600	9,600	8,800	167.20	3.98	4027
	2.375	0.188	0.188	0.180	4.40	1.999	1.241	3.189	90,400	103,300	9,300	10,300	9,700	162.93	3.88	4268
	2.375	0.204	0.204	0.194	4.73	1.967	1.329	3.101	97,400	111,300	10,100	11,200	10,500	157.76	3.76	4518
	2.375	0.224	0.224	0.214	5.15	1.927	1.453	2.977	106,000	121,100	11,100	12,300	11,400	151.40	3.61	4857
	2.375	0.250	0.250	0.240	5.68	1.875	1.610	2.820	116,800	133,500	12,400	13,800	12,700	143.34	3.42	5268
	2.375	0.276	0.276	0.266	6.19	1.823	1.762	2.668	127,400	145,600	13,400	14,900	13,700	135.50	3.23	5646
2.375	0.281	0.281	0.271	6.29	1.813	1.791	2.639	129,400	147,900	13,600	15,100	13,800	134.02	3.19	5715	
2.375	0.300	0.300	0.288	6.65	1.775	1.888	2.542	136,900	156,500	14,500	16,100	14,700	128.46	3.06	5942	

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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	65,100	74,300	5,300	5,900	3,000	232.71	5.54	3617
	2.625	0.125	0.125	0.118	3.33	2.375	0.929	4.483	68,700	78,500	5,700	6,300	3,600	229.99	5.48	3755
	2.625	0.134	0.134	0.127	3.55	2.357	0.997	4.415	73,400	83,900	6,000	6,700	4,200	226.51	5.40	4000
	2.625	0.145	0.145	0.138	3.84	2.335	1.078	4.334	79,100	90,400	6,600	7,300	5,200	222.31	5.30	4291
	2.625	0.156	0.156	0.148	4.12	2.313	1.152	4.260	84,700	96,800	7,100	7,900	6,100	218.14	5.20	4549
	2.625	0.175	0.175	0.167	4.58	2.275	1.290	4.122	94,300	107,800	7,800	8,700	7,400	211.03	5.03	5021
	2.625	0.188	0.188	0.180	4.90	2.249	1.383	4.029	100,800	115,100	8,500	9,400	8,400	206.23	4.91	5330
	2.625	0.204	0.204	0.194	5.28	2.217	1.482	3.930	108,600	124,100	9,200	10,200	9,500	200.40	4.77	5652
	2.625	0.224	0.224	0.214	5.75	2.177	1.621	3.791	118,300	135,200	10,100	11,200	10,400	193.24	4.60	6091
	2.625	0.250	0.250	0.240	6.35	2.125	1.798	3.614	130,600	149,200	11,300	12,500	11,600	184.12	4.39	6628
	2.625	0.276	0.276	0.266	6.93	2.073	1.971	3.441	142,600	162,900	12,200	13,500	12,500	175.22	4.17	7126
	2.625	0.281	0.281	0.271	7.04	2.063	2.004	3.408	144,800	165,500	12,300	13,700	12,700	173.53	4.13	7218
2.625	0.300	0.300	0.288	7.46	2.025	2.114	3.297	153,400	175,300	13,200	14,700	13,500	167.20	3.98	7520	
2-7/8	2.875	0.134	0.134	0.127	3.93	2.607	1.096	5.395	80,800	92,300	5,500	6,100	3,300	277.11	6.60	4859
	2.875	0.145	0.145	0.138	4.23	2.585	1.187	5.305	87,100	99,500	6,000	6,700	4,200	272.46	6.49	5219
	2.875	0.156	0.156	0.148	4.53	2.563	1.268	5.224	93,300	106,600	6,500	7,200	5,100	267.84	6.38	5539
	2.875	0.175	0.175	0.167	5.05	2.525	1.421	5.071	103,900	118,800	7,200	8,000	6,300	259.96	6.19	6125
	2.875	0.188	0.188	0.180	5.40	2.499	1.524	4.968	111,100	127,000	7,700	8,600	7,100	254.63	6.07	6512
	2.875	0.204	0.204	0.194	5.82	2.467	1.634	4.858	119,800	136,900	8,400	9,300	8,300	248.15	5.91	6914
	2.875	0.224	0.224	0.214	6.35	2.427	1.789	4.703	130,600	149,200	9,200	10,200	9,600	240.17	5.72	7467
	2.875	0.250	0.250	0.240	7.02	2.375	1.987	4.505	144,300	164,900	10,400	11,500	10,700	229.99	5.48	8146
	2.875	0.276	0.276	0.266	7.67	2.323	2.180	4.312	157,700	180,300	11,200	12,400	11,500	220.03	5.24	8782
	2.875	0.281	0.281	0.271	7.79	2.313	2.217	4.275	160,300	183,200	11,300	12,600	11,700	218.14	5.20	8900
2.875	0.300	0.300	0.288	8.26	2.275	2.341	4.151	169,900	194,200	12,200	13,500	12,500	211.03	5.03	9288	
3-1/4	3.250	0.145	0.145	0.138	4.81	2.960	1.349	6.947	99,000	113,200	5,300	5,900	3,100	357.24	8.51	6783
	3.250	0.156	0.156	0.148	5.16	2.938	1.442	6.853	106,100	121,300	5,800	6,400	3,800	351.95	8.39	7207
	3.250	0.175	0.175	0.167	5.75	2.900	1.617	6.678	118,300	135,200	6,400	7,100	4,800	342.90	8.17	7988

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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	126,600	144,700	6,800	7,600	5,600	336.78	8.02	8506
	3.250	0.204	0.204	0.194	6.64	2.842	1.863	6.433	136,600	156,200	7,400	8,200	6,600	329.32	7.85	9048
	3.250	0.224	0.224	0.214	7.25	2.802	2.041	6.255	149,100	170,400	8,200	9,100	7,900	320.12	7.63	9795
	3.250	0.250	0.250	0.240	8.02	2.750	2.269	6.026	164,900	188,500	9,200	10,200	9,600	308.35	7.35	10721
	3.250	0.276	0.276	0.266	8.77	2.698	2.494	5.802	180,500	206,300	9,900	11,000	10,300	296.80	7.07	11595
	3.250	0.281	0.281	0.271	8.92	2.688	2.536	5.760	183,500	209,700	10,100	11,200	10,400	294.60	7.02	11757
	3.250	0.300	0.300	0.288	9.46	2.650	2.680	5.616	194,600	222,400	10,800	12,000	11,200	286.33	6.82	12297
3-1/2	3.500	0.156	0.156	0.148	5.58	3.188	1.559	8.063	114,700	131,100	5,400	6,000	3,100	414.39	9.87	8441
	3.500	0.175	0.175	0.167	6.22	3.150	1.749	7.872	128,000	146,200	5,900	6,600	4,100	404.57	9.64	9369
	3.500	0.188	0.188	0.180	6.66	3.124	1.877	7.744	136,900	156,500	6,400	7,100	4,800	397.92	9.48	9985
	3.500	0.204	0.204	0.194	7.19	3.092	2.015	7.606	147,900	169,000	6,900	7,700	5,700	389.81	9.29	10631
	3.500	0.224	0.224	0.214	7.84	3.052	2.209	7.412	161,400	184,400	7,600	8,400	6,900	379.79	9.05	11525
	3.500	0.250	0.250	0.240	8.69	3.000	2.458	7.163	178,700	204,200	8,600	9,500	8,600	366.96	8.74	12635
	3.500	0.276	0.276	0.266	9.51	2.948	2.703	6.919	195,700	223,600	9,300	10,300	9,600	354.35	8.44	13690
	3.500	0.281	0.281	0.271	9.67	2.938	2.749	6.872	198,900	227,300	9,400	10,400	9,800	351.95	8.39	13886
	3.500	0.300	0.300	0.288	10.26	2.900	2.906	6.715	211,100	241,300	10,100	11,200	10,400	342.90	8.17	14540

Chemistry Composition

C,% 0.16 max Mn,% 1.20 max P,% 0.025 max S,% 0.005 max Si,% 0.50 max

Mechanical Properties

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

Yield Strength: 70,000psi (483MPa) min

Hardness: 22HRC max

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

Other dimensions are available on request.