

Coiled Tubing CT90

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	15,200	16,300	15,800	17,500	16,100	14.19	0.34	214
	0.750	0.083	0.083	0.079	0.59	0.584	0.167	0.275	15,700	16,900	16,600	18,400	16,900	13.91	0.33	219
	0.750	0.087	0.087	0.083	0.62	0.576	0.174	0.268	16,300	17,600	17,300	19,200	17,600	13.53	0.32	227
	0.750	0.095	0.095	0.090	0.67	0.560	0.187	0.255	17,600	19,000	18,900	21,000	19,100	12.79	0.30	239
	0.750	0.102	0.102	0.097	0.71	0.546	0.199	0.243	18,700	20,100	20,300	22,600	20,500	12.16	0.29	250
	0.750	0.109	0.109	0.104	0.75	0.532	0.211	0.231	19,800	21,300	21,100	23,400	21,200	11.54	0.27	261
	0.750	0.118	0.118	0.113	0.80	0.514	0.226	0.216	21,100	22,700	22,600	25,100	22,500	10.77	0.26	273
1	1.000	0.075	0.075	0.071	0.74	0.850	0.207	0.578	19,600	21,100	11,300	12,600	11,100	29.46	0.70	389
	1.000	0.080	0.080	0.076	0.79	0.840	0.221	0.565	20,800	22,400	12,000	13,300	12,200	28.77	0.69	411
	1.000	0.083	0.083	0.079	0.81	0.834	0.229	0.557	21,500	23,200	12,600	14,000	13,000	28.36	0.68	423
	1.000	0.087	0.087	0.083	0.85	0.826	0.239	0.546	22,500	24,200	13,100	14,600	13,600	27.82	0.66	439
	1.000	0.095	0.095	0.090	0.92	0.810	0.257	0.528	24,300	26,200	14,400	16,000	14,800	26.75	0.64	466
	1.000	0.102	0.102	0.097	0.98	0.796	0.275	0.510	25,900	27,900	15,600	17,300	16,000	25.83	0.62	491
	1.000	0.109	0.109	0.104	1.04	0.782	0.293	0.493	27,500	29,600	16,200	18,000	16,500	24.93	0.59	516
	1.000	0.118	0.118	0.113	1.11	0.764	0.315	0.471	29,400	31,700	17,300	19,200	17,600	23.80	0.57	545
	1.000	0.125	0.125	0.118	1.17	0.750	0.327	0.458	30,900	33,300	18,500	20,500	18,700	22.93	0.55	560
	1.000	0.134	0.134	0.127	1.24	0.732	0.348	0.437	32,800	35,400	19,600	21,800	19,800	21.85	0.52	587
1-1/4	1.250	0.075	0.075	0.071	0.94	1.100	0.263	0.964	24,900	26,900	9,100	10,100	7,100	49.34	1.18	635
	1.250	0.080	0.080	0.076	1.00	1.090	0.280	0.947	26,500	28,500	9,600	10,700	8,000	48.44	1.15	672
	1.250	0.087	0.087	0.083	1.08	1.076	0.304	0.923	28,600	30,800	10,600	11,800	9,700	47.21	1.12	721
	1.250	0.095	0.095	0.090	1.17	1.060	0.328	0.899	31,000	33,400	11,600	12,900	11,500	45.81	1.09	769
	1.250	0.102	0.102	0.097	1.25	1.046	0.351	0.876	33,100	35,700	12,500	13,900	13,000	44.61	1.06	815
	1.250	0.109	0.109	0.104	1.33	1.032	0.374	0.853	35,200	37,900	13,100	14,500	13,500	43.42	1.03	859
	1.250	0.118	0.118	0.113	1.43	1.014	0.404	0.824	37,800	40,700	14,000	15,600	14,400	41.92	1.00	913
	1.250	0.125	0.125	0.118	1.50	1.000	0.420	0.808	39,800	42,900	14,900	16,600	15,400	40.77	0.97	941
	1.250	0.134	0.134	0.127	1.60	0.982	0.448	0.779	42,300	45,600	15,900	17,700	16,300	39.32	0.94	991
	1.250	0.145	0.145	0.138	1.71	0.960	0.482	0.745	45,300	48,800	17,300	19,200	17,600	37.58	0.90	1048

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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	
1-1/4	1.250	0.156	0.156	0.148	1.82	0.938	0.512	0.715	48,300	52,000	18,700	20,800	18,900	35.87	0.85	1097
	1.250	0.175	0.175	0.167	2.01	0.900	0.568	0.659	53,200	57,300	20,500	22,800	20,600	33.03	0.79	1182
1-1/2	1.500	0.087	0.087	0.083	1.31	1.326	0.369	1.398	34,800	37,500	8,900	9,900	6,700	71.69	1.71	1074
	1.500	0.095	0.095	0.090	1.43	1.310	0.399	1.368	37,700	40,700	9,700	10,800	8,100	69.97	1.67	1149
	1.500	0.102	0.102	0.097	1.52	1.296	0.428	1.340	40,300	43,500	10,500	11,700	9,600	68.48	1.63	1220
	1.500	0.109	0.109	0.104	1.62	1.282	0.456	1.311	42,900	46,200	11,000	12,200	10,400	67.01	1.60	1290
	1.500	0.118	0.118	0.113	1.74	1.264	0.492	1.275	46,100	49,700	11,800	13,100	11,800	65.14	1.55	1376
	1.500	0.125	0.125	0.118	1.84	1.250	0.512	1.255	48,600	52,400	12,600	14,000	13,000	63.71	1.52	1422
	1.500	0.134	0.134	0.127	1.96	1.232	0.548	1.219	51,800	55,800	13,400	14,900	13,800	61.89	1.47	1503
	1.500	0.145	0.145	0.138	2.10	1.210	0.590	1.177	55,600	59,900	14,600	16,200	15,000	59.70	1.42	1597
	1.500	0.156	0.156	0.148	2.24	1.188	0.629	1.139	59,300	63,900	15,800	17,500	16,100	57.55	1.37	1678
	1.500	0.175	0.175	0.167	2.48	1.150	0.699	1.068	65,600	70,700	17,300	19,200	17,600	53.92	1.28	1822
	1.500	0.188	0.188	0.180	2.64	1.124	0.746	1.021	69,700	75,200	18,500	20,500	18,700	51.51	1.23	1912
	1.500	0.204	0.204	0.194	2.83	1.092	0.796	0.971	74,800	80,600	20,000	22,200	20,200	48.62	1.16	2003
1-3/4	1.750	0.095	0.095	0.090	1.68	1.560	0.469	1.936	44,500	47,900	8,300	9,200	5,700	99.23	2.36	1605
	1.750	0.102	0.102	0.097	1.80	1.546	0.504	1.902	47,500	51,200	9,000	10,000	7,000	97.45	2.32	1709
	1.750	0.109	0.109	0.104	1.91	1.532	0.538	1.867	50,600	54,500	9,400	10,400	7,600	95.70	2.28	1810
	1.750	0.118	0.118	0.113	2.06	1.514	0.581	1.824	54,400	58,700	10,100	11,200	8,900	93.46	2.23	1936
	1.750	0.125	0.125	0.118	2.17	1.500	0.605	1.800	57,400	61,900	10,800	12,000	10,100	91.74	2.19	2004
	1.750	0.134	0.134	0.127	2.31	1.482	0.648	1.758	61,200	66,000	11,500	12,800	11,400	89.55	2.13	2123
	1.750	0.145	0.145	0.138	2.49	1.460	0.699	1.706	65,800	70,900	12,500	13,900	13,000	86.91	2.07	2263
	1.750	0.156	0.156	0.148	2.66	1.438	0.745	1.660	70,300	75,800	13,600	15,100	14,000	84.31	2.01	2385
	1.750	0.175	0.175	0.167	2.95	1.400	0.831	1.575	77,900	84,000	14,900	16,600	15,400	79.92	1.90	2603
	1.750	0.188	0.188	0.180	3.14	1.374	0.888	1.517	83,000	89,500	15,900	17,700	16,300	76.97	1.83	2743
	1.750	0.204	0.204	0.194	3.37	1.342	0.948	1.457	89,200	96,100	17,300	19,200	17,600	73.43	1.75	2885
	1.750	0.224	0.224	0.214	3.65	1.302	1.033	1.373	96,600	104,200	19,000	21,100	19,200	69.12	1.65	3072
1.750	0.250	0.250	0.240	4.01	1.250	1.139	1.267	106,000	114,300	21,200	23,500	21,300	63.71	1.52	3292	

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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	58,300	62,800	8,300	9,200	5,600	129.48	3.08	2418
	2.000	0.118	0.118	0.113	2.37	1.764	0.670	2.472	62,800	67,700	8,900	9,900	6,700	126.87	3.02	2591
	2.000	0.125	0.125	0.118	2.51	1.750	0.698	2.444	66,300	71,400	9,500	10,600	7,800	124.87	2.97	2685
	2.000	0.134	0.134	0.127	2.67	1.732	0.747	2.394	70,700	76,200	10,100	11,200	8,900	122.31	2.91	2851
	2.000	0.145	0.145	0.138	2.88	1.710	0.807	2.334	76,100	82,000	11,100	12,300	10,500	119.23	2.84	3046
	2.000	0.156	0.156	0.148	3.08	1.688	0.861	2.280	81,300	87,700	12,000	13,300	12,200	116.18	2.77	3217
	2.000	0.175	0.175	0.167	3.41	1.650	0.962	2.180	90,300	97,300	13,100	14,600	13,600	111.01	2.64	3527
	2.000	0.188	0.188	0.180	3.64	1.624	1.029	2.112	96,300	103,800	14,000	15,600	14,500	107.53	2.56	3726
	2.000	0.204	0.204	0.194	3.92	1.592	1.101	2.041	103,600	111,600	15,300	17,000	15,700	103.34	2.46	3931
	2.000	0.224	0.224	0.214	4.25	1.552	1.201	1.941	112,500	121,200	16,700	18,600	17,100	98.21	2.34	4205
	2.000	0.250	0.250	0.240	4.68	1.500	1.327	1.815	123,700	133,300	18,700	20,800	19,000	91.74	2.19	4532
	2.000	0.276	0.276	0.266	5.09	1.448	1.449	1.693	134,500	145,000	20,200	22,400	20,300	85.49	2.04	4827
2.000	0.281	0.281	0.271	5.16	1.438	1.472	1.670	136,600	147,200	20,400	22,700	20,600	84.31	2.01	4880	
2-3/8	2.375	0.109	0.109	0.104	2.64	2.157	0.742	3.688	69,800	75,300	6,900	7,700	3,600	189.70	4.52	3496
	2.375	0.118	0.118	0.113	2.85	2.139	0.803	3.627	75,300	81,200	7,500	8,300	4,300	186.55	4.44	3755
	2.375	0.125	0.125	0.118	3.01	2.125	0.837	3.593	79,500	85,700	8,000	8,900	5,200	184.12	4.39	3896
	2.375	0.134	0.134	0.127	3.21	2.107	0.897	3.533	84,900	91,500	8,600	9,500	6,100	181.01	4.31	4145
	2.375	0.145	0.145	0.138	3.46	2.085	0.970	3.460	91,400	98,500	9,400	10,400	7,500	177.25	4.22	4441
	2.375	0.156	0.156	0.148	3.70	2.063	1.035	3.395	97,900	105,500	10,100	11,200	8,900	173.53	4.13	4702
	2.375	0.175	0.175	0.167	4.12	2.025	1.158	3.272	108,900	117,300	11,200	12,400	10,700	167.20	3.98	5177
	2.375	0.188	0.188	0.180	4.40	1.999	1.241	3.189	116,300	125,300	12,000	13,300	12,100	162.93	3.88	5488
	2.375	0.204	0.204	0.194	4.73	1.967	1.329	3.101	125,200	135,000	13,000	14,400	13,400	157.76	3.76	5809
	2.375	0.224	0.224	0.214	5.15	1.927	1.453	2.977	136,200	146,800	14,200	15,800	14,700	151.40	3.61	6245
	2.375	0.250	0.250	0.240	5.68	1.875	1.610	2.820	150,200	161,900	16,000	17,800	16,300	143.34	3.42	6773
	2.375	0.276	0.276	0.266	6.19	1.823	1.762	2.668	163,800	176,500	17,200	19,100	17,500	135.50	3.23	7259
2.375	0.281	0.281	0.271	6.29	1.813	1.791	2.639	166,400	179,300	17,500	19,400	17,800	134.02	3.19	7348	
2.375	0.300	0.300	0.288	6.65	1.775	1.888	2.542	176,000	189,700	18,600	20,700	18,900	128.46	3.06	7640	

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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	83,600	90,100	6,800	7,500	3,400	232.71	5.54	4650
	2.625	0.125	0.125	0.118	3.33	2.375	0.929	4.483	88,400	95,200	7,300	8,100	4,000	229.99	5.48	4828
	2.625	0.134	0.134	0.127	3.55	2.357	0.997	4.415	94,400	101,700	7,700	8,600	4,700	226.51	5.40	5142
	2.625	0.145	0.145	0.138	3.84	2.335	1.078	4.334	101,700	109,600	8,500	9,400	5,900	222.31	5.30	5517
	2.625	0.156	0.156	0.148	4.12	2.313	1.152	4.260	108,900	117,400	9,200	10,200	7,200	218.14	5.20	5848
	2.625	0.175	0.175	0.167	4.58	2.275	1.290	4.122	121,200	130,700	10,100	11,200	8,900	211.03	5.03	6455
	2.625	0.188	0.188	0.180	4.90	2.249	1.383	4.029	129,500	139,600	10,800	12,000	10,100	206.23	4.91	6853
	2.625	0.204	0.204	0.194	5.28	2.217	1.482	3.930	139,600	150,500	11,800	13,100	11,800	200.40	4.77	7267
	2.625	0.224	0.224	0.214	5.75	2.177	1.621	3.791	152,100	163,900	12,900	14,300	13,400	193.24	4.60	7832
	2.625	0.250	0.250	0.240	6.35	2.125	1.798	3.614	167,900	180,900	14,500	16,100	14,900	184.12	4.39	8521
	2.625	0.276	0.276	0.266	6.93	2.073	1.971	3.441	183,300	197,600	15,700	17,400	16,000	175.22	4.17	9162
	2.625	0.281	0.281	0.271	7.04	2.063	2.004	3.408	186,200	200,700	15,800	17,600	16,200	173.53	4.13	9280
2.625	0.300	0.300	0.288	7.46	2.025	2.114	3.297	197,200	212,600	17,000	18,900	17,300	167.20	3.98	9669	
2-7/8	2.875	0.134	0.134	0.127	3.93	2.607	1.096	5.395	103,800	111,900	7,100	7,900	3,800	277.11	6.60	6248
	2.875	0.145	0.145	0.138	4.23	2.585	1.187	5.305	111,900	120,600	7,700	8,600	4,700	272.46	6.49	6710
	2.875	0.156	0.156	0.148	4.53	2.563	1.268	5.224	119,900	129,300	8,400	9,300	5,800	267.84	6.38	7121
	2.875	0.175	0.175	0.167	5.05	2.525	1.421	5.071	133,600	144,000	9,300	10,300	7,400	259.96	6.19	7875
	2.875	0.188	0.188	0.180	5.40	2.499	1.524	4.968	142,800	153,900	9,900	11,000	8,500	254.63	6.07	8372
	2.875	0.204	0.204	0.194	5.82	2.467	1.634	4.858	154,100	166,000	10,800	12,000	10,000	248.15	5.91	8890
	2.875	0.224	0.224	0.214	6.35	2.427	1.789	4.703	167,900	181,000	11,800	13,100	11,900	240.17	5.72	9600
	2.875	0.250	0.250	0.240	7.02	2.375	1.987	4.505	185,600	200,000	13,300	14,800	13,800	229.99	5.48	10473
	2.875	0.276	0.276	0.266	7.67	2.323	2.180	4.312	202,800	218,600	14,400	16,000	14,800	220.03	5.24	11291
	2.875	0.281	0.281	0.271	7.79	2.313	2.217	4.275	206,100	222,100	14,600	16,200	15,000	218.14	5.20	11442
	2.875	0.300	0.300	0.288	8.26	2.275	2.341	4.151	218,400	235,400	15,600	17,300	16,000	211.03	5.03	11942
3-1/4	3.250	0.145	0.145	0.138	4.81	2.960	1.349	6.947	127,300	137,200	6,800	7,600	3,500	357.24	8.51	8721
	3.250	0.156	0.156	0.148	5.16	2.938	1.442	6.853	136,500	147,100	7,500	8,300	4,100	351.95	8.39	9266
	3.250	0.175	0.175	0.167	5.75	2.900	1.617	6.678	152,200	164,000	8,200	9,100	5,500	342.90	8.17	10271

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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	ft.lbs	
3-1/4	3.250	0.188	0.188	0.180	6.15	2.874	1.736	6.560	162,800	175,400	8,700	9,700	6,500	336.78	8.02	10936
	3.250	0.204	0.204	0.194	6.64	2.842	1.863	6.433	175,700	189,400	9,500	10,600	7,900	329.32	7.85	11633
	3.250	0.224	0.224	0.214	7.25	2.802	2.041	6.255	191,700	206,600	10,400	11,600	9,500	320.12	7.63	12594
	3.250	0.250	0.250	0.240	8.02	2.750	2.269	6.026	212,100	228,600	11,800	13,100	11,900	308.35	7.35	13784
	3.250	0.276	0.276	0.266	8.77	2.698	2.494	5.802	232,100	250,100	12,800	14,200	13,200	296.80	7.07	14908
	3.250	0.281	0.281	0.271	8.92	2.688	2.536	5.760	235,900	254,200	13,000	14,400	13,400	294.60	7.02	15117
	3.250	0.300	0.300	0.288	9.46	2.650	2.680	5.616	250,200	269,700	13,900	15,400	14,300	286.33	6.82	15810
3-1/2	3.500	0.156	0.156	0.148	5.58	3.188	1.559	8.063	147,500	159,000	6,900	7,700	3,600	414.39	9.87	10853
	3.500	0.175	0.175	0.167	6.22	3.150	1.749	7.872	164,500	177,300	7,700	8,500	4,500	404.57	9.64	12046
	3.500	0.188	0.188	0.180	6.66	3.124	1.877	7.744	176,100	189,700	8,200	9,100	5,400	397.92	9.48	12837
	3.500	0.204	0.204	0.194	7.19	3.092	2.015	7.606	190,100	204,900	8,900	9,900	6,700	389.81	9.29	13668
	3.500	0.224	0.224	0.214	7.84	3.052	2.209	7.412	207,500	223,600	9,700	10,800	8,300	379.79	9.05	14817
	3.500	0.250	0.250	0.240	8.69	3.000	2.458	7.163	229,700	247,600	11,000	12,200	10,500	366.96	8.74	16245
	3.500	0.276	0.276	0.266	9.51	2.948	2.703	6.919	251,600	271,200	11,900	13,200	12,000	354.35	8.44	17601
	3.500	0.281	0.281	0.271	9.67	2.938	2.749	6.872	255,800	275,600	12,100	13,400	12,300	351.95	8.39	17854
	3.500	0.300	0.300	0.288	10.26	2.900	2.906	6.715	271,400	292,500	13,000	14,400	13,400	342.90	8.17	18694

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: 97,000psi (669MPa) min

Yield Strength: 90,000psi (621MPa) min

Hardness: 22HRC max

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

Other dimensions are available on request.