

Coiled Tubing 13Cr

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 ²	inch ²	lb	lb	psig	psig	psig	gal	bar
1-1/4	1.250	0.080	0.080	0.076	0.99	1.090	0.280	0.947	23,500	25,900	8,600	9,500	7,400	48.44	1.15	597
	1.250	0.087	0.087	0.083	1.07	1.076	0.304	0.923	25,400	28,000	9,500	10,500	8,900	47.21	1.12	641
	1.250	0.095	0.095	0.090	1.16	1.060	0.328	0.899	27,600	30,300	10,300	11,400	10,700	45.81	1.09	684
	1.250	0.102	0.102	0.097	1.23	1.046	0.351	0.876	29,400	32,400	11,200	12,400	11,600	44.61	1.06	724
	1.250	0.109	0.109	0.104	1.31	1.032	0.374	0.853	31,300	34,400	11,600	12,900	12,000	43.42	1.03	763
	1.250	0.118	0.118	0.113	1.41	1.014	0.404	0.824	33,600	36,900	12,400	13,800	12,800	41.92	1.00	811
	1.250	0.125	0.125	0.118	1.48	1.000	0.420	0.808	35,300	38,900	13,300	14,800	13,700	40.77	0.97	837
	1.250	0.134	0.134	0.127	1.57	0.982	0.448	0.779	37,600	41,300	14,100	15,700	14,500	39.32	0.94	881
	1.250	0.145	0.145	0.138	1.69	0.960	0.482	0.745	40,300	44,300	15,400	17,100	15,700	37.58	0.90	932
	1.250	0.156	0.156	0.148	1.80	0.938	0.512	0.715	42,900	47,200	16,700	18,500	16,800	35.87	0.85	975
1-1/2	1.500	0.087	0.087	0.083	1.29	1.326	0.369	1.398	30,900	34,000	7,900	8,800	6,200	71.69	1.71	955
	1.500	0.095	0.095	0.090	1.41	1.310	0.399	1.368	33,500	36,900	8,600	9,600	7,500	69.97	1.67	1021
	1.500	0.102	0.102	0.097	1.50	1.296	0.428	1.340	35,800	39,400	9,400	10,400	8,800	68.48	1.63	1085
	1.500	0.109	0.109	0.104	1.60	1.282	0.456	1.311	38,100	41,900	9,700	10,800	9,500	67.01	1.60	1147
	1.500	0.118	0.118	0.113	1.72	1.264	0.492	1.275	41,000	45,100	10,400	11,600	10,900	65.14	1.55	1223
	1.500	0.125	0.125	0.118	1.81	1.250	0.512	1.255	43,200	47,500	11,200	12,400	11,600	63.71	1.52	1264
	1.500	0.134	0.134	0.127	1.92	1.232	0.548	1.219	46,000	50,600	11,900	13,200	12,300	61.89	1.47	1336
	1.500	0.145	0.145	0.138	2.07	1.210	0.590	1.177	49,400	54,300	13,000	14,400	13,400	59.70	1.42	1420
	1.500	0.156	0.156	0.148	2.20	1.188	0.629	1.139	52,700	58,000	14,000	15,600	14,400	57.55	1.37	1492
	1.500	0.175	0.175	0.167	2.44	1.150	0.699	1.068	58,300	64,100	15,400	17,100	15,700	53.92	1.28	1619
	1.500	0.188	0.188	0.180	2.59	1.124	0.746	1.021	62,000	68,200	16,500	18,300	16,700	51.51	1.23	1700
1-3/4	1.750	0.095	0.095	0.090	1.65	1.560	0.469	1.936	39,500	43,500	7,400	8,200	5,400	99.23	2.36	1426
	1.750	0.102	0.102	0.097	1.77	1.546	0.504	1.902	42,200	46,500	8,000	8,900	6,500	97.45	2.32	1519
	1.750	0.109	0.109	0.104	1.88	1.532	0.538	1.867	45,000	49,500	8,400	9,300	7,100	95.70	2.28	1609
	1.750	0.118	0.118	0.113	2.02	1.514	0.581	1.824	48,400	53,200	9,000	10,000	8,200	93.46	2.23	1721
	1.750	0.125	0.125	0.118	2.14	1.500	0.605	1.800	51,100	56,200	9,600	10,700	9,300	91.74	2.19	1781
	1.750	0.134	0.134	0.127	2.28	1.482	0.648	1.758	54,400	59,900	10,300	11,400	10,700	89.55	2.13	1887

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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	
1-3/4	1.750	0.145	0.145	0.138	2.45	1.460	0.699	1.706	58,500	64,300	11,200	12,400	11,600	86.91	2.07	2012
	1.750	0.156	0.156	0.148	2.61	1.438	0.745	1.660	62,500	68,700	12,100	13,400	12,500	84.31	2.01	2120
	1.750	0.175	0.175	0.167	2.90	1.400	0.831	1.575	69,300	76,200	13,300	14,800	13,700	79.92	1.90	2314
	1.750	0.188	0.188	0.180	3.09	1.374	0.888	1.517	73,800	81,200	14,200	15,800	14,600	76.97	1.83	2438
	1.750	0.204	0.204	0.194	3.31	1.342	0.948	1.457	79,300	87,200	15,400	17,100	15,700	73.43	1.75	2564
2	2.000	0.109	0.109	0.104	2.17	1.782	0.619	2.522	51,800	57,000	7,300	8,100	5,300	129.48	3.08	2149
	2.000	0.118	0.118	0.113	2.33	1.764	0.670	2.472	55,800	61,400	7,900	8,800	6,200	126.87	3.02	2303
	2.000	0.125	0.125	0.118	2.46	1.750	0.698	2.444	58,900	64,800	8,500	9,400	7,200	124.87	2.97	2387
	2.000	0.134	0.134	0.127	2.63	1.732	0.747	2.394	62,800	69,100	9,000	10,000	8,200	122.31	2.91	2534
	2.000	0.145	0.145	0.138	2.83	1.710	0.807	2.334	67,600	74,400	9,800	10,900	9,600	119.23	2.84	2708
	2.000	0.156	0.156	0.148	3.02	1.688	0.861	2.280	72,300	79,500	10,600	11,800	11,100	116.18	2.77	2860
	2.000	0.175	0.175	0.167	3.35	1.650	0.962	2.180	80,300	88,300	11,700	13,000	12,100	111.01	2.64	3135
	2.000	0.188	0.188	0.180	3.58	1.624	1.029	2.112	85,600	94,200	12,500	13,900	12,900	107.53	2.56	3312
	2.000	0.204	0.204	0.194	3.85	1.592	1.101	2.041	92,100	101,300	13,600	15,100	13,900	103.34	2.46	3494
2-3/8	2.375	0.125	0.125	0.118	2.96	2.125	0.837	3.593	70,700	77,800	7,100	7,900	4,900	184.12	4.39	3463
	2.375	0.134	0.134	0.127	3.15	2.107	0.897	3.533	75,500	83,000	7,600	8,400	5,800	181.01	4.31	3684
	2.375	0.145	0.145	0.138	3.40	2.085	0.970	3.460	81,300	89,400	8,300	9,200	7,000	177.25	4.22	3947
	2.375	0.156	0.156	0.148	3.64	2.063	1.035	3.395	87,000	95,700	9,000	10,000	8,200	173.53	4.13	4179
	2.375	0.175	0.175	0.167	4.04	2.025	1.158	3.272	96,800	106,400	9,900	11,000	9,800	167.20	3.98	4602
	2.375	0.188	0.188	0.180	4.32	1.999	1.241	3.189	103,300	113,700	10,600	11,800	11,000	162.93	3.88	4878
	2.375	0.204	0.204	0.194	4.65	1.967	1.329	3.101	111,300	122,400	11,500	12,800	11,900	157.76	3.76	5164

Chemistry Composition

C,% 0.15 max P,% 0.12 max S,% 0.03 max Cr,% 11.5 min

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

Hardness: 290HBW or 30HRC max

Mechanical Properties

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

Tensile strength & yield strength minimum are calculated on specified wall. Other dimensions are available on request.