

## Coiled Tubing 2507 UNS S32750

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	0.59	0.590	0.161	0.281	15,200	19,500	15,800	17,500	16,100	14.19	0.34	214
	0.750	0.083	0.083	0.079	0.61	0.584	0.167	0.275	15,700	20,200	16,600	18,400	16,900	13.91	0.33	219
	0.750	0.087	0.087	0.083	0.64	0.576	0.174	0.268	16,300	21,000	17,300	19,200	17,600	13.53	0.32	227
	0.750	0.095	0.095	0.090	0.69	0.560	0.187	0.255	17,600	22,700	18,900	21,000	19,100	12.79	0.30	239
	0.750	0.102	0.102	0.097	0.73	0.546	0.199	0.243	18,700	24,100	20,300	22,600	20,500	12.16	0.29	250
1	1.000	0.075	0.075	0.071	0.76	0.850	0.207	0.578	19,600	25,300	11,300	12,600	11,100	29.46	0.70	389
	1.000	0.080	0.080	0.076	0.81	0.840	0.221	0.565	20,800	26,800	12,000	13,300	12,200	28.77	0.69	411
	1.000	0.083	0.083	0.079	0.84	0.834	0.229	0.557	21,500	27,700	12,600	14,000	13,000	28.36	0.68	423
	1.000	0.087	0.087	0.083	0.87	0.826	0.239	0.546	22,500	28,900	13,100	14,600	13,600	27.82	0.66	439
	1.000	0.095	0.095	0.090	0.95	0.810	0.257	0.528	24,300	31,300	14,400	16,000	14,800	26.75	0.64	466
	1.000	0.102	0.102	0.097	1.01	0.796	0.275	0.510	25,900	33,400	15,600	17,300	16,000	25.83	0.62	491
	1.000	0.109	0.109	0.104	1.07	0.782	0.293	0.493	27,500	35,400	16,200	18,000	16,500	24.93	0.59	516
	1.000	0.118	0.118	0.113	1.14	0.764	0.315	0.471	29,400	37,900	17,300	19,200	17,600	23.80	0.57	545
	1.000	0.125	0.125	0.118	1.20	0.750	0.327	0.458	30,900	39,900	18,500	20,500	18,700	22.93	0.55	560
	1.000	0.134	0.134	0.127	1.27	0.732	0.348	0.437	32,800	42,300	19,600	21,800	19,800	21.85	0.52	587
1-1/4	1.250	0.075	0.075	0.071	0.97	1.100	0.263	0.964	24,900	32,100	9,100	10,100	7,100	49.34	1.18	635
	1.250	0.080	0.080	0.076	1.03	1.090	0.280	0.947	26,500	34,100	9,600	10,700	8,000	48.44	1.15	672
	1.250	0.087	0.087	0.083	1.11	1.076	0.304	0.923	28,600	36,900	10,600	11,800	9,700	47.21	1.12	721
	1.250	0.095	0.095	0.090	1.21	1.060	0.328	0.899	31,000	40,000	11,600	12,900	11,500	45.81	1.09	769
	1.250	0.102	0.102	0.097	1.29	1.046	0.351	0.876	33,100	42,700	12,500	13,900	13,000	44.61	1.06	815
	1.250	0.109	0.109	0.104	1.37	1.032	0.374	0.853	35,200	45,300	13,100	14,500	13,500	43.42	1.03	859
	1.250	0.118	0.118	0.113	1.47	1.014	0.404	0.824	37,800	48,700	14,000	15,600	14,400	41.92	1.00	913
	1.250	0.125	0.125	0.118	1.54	1.000	0.420	0.808	39,800	51,200	14,900	16,600	15,400	40.77	0.97	941
	1.250	0.134	0.134	0.127	1.64	0.982	0.448	0.779	42,300	54,500	15,900	17,700	16,300	39.32	0.94	991
	1.250	0.145	0.145	0.138	1.76	0.960	0.482	0.745	45,300	58,400	17,300	19,200	17,600	37.58	0.90	1048
	1.250	0.156	0.156	0.148	1.87	0.938	0.512	0.715	48,300	62,200	18,700	20,800	18,900	35.87	0.85	1097

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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	0.175	0.175	0.167	2.06	0.900	0.568	0.659	53,200	68,600	20,500	22,800	20,600	33.03	0.79	1182
1-1/2	1.500	0.087	0.087	0.083	1.35	1.326	0.369	1.398	34,800	44,800	8,900	9,900	6,700	71.69	1.71	1074
	1.500	0.095	0.095	0.090	1.47	1.310	0.399	1.368	37,700	48,600	9,700	10,800	8,100	69.97	1.67	1149
	1.500	0.102	0.102	0.097	1.56	1.296	0.428	1.340	40,300	52,000	10,500	11,700	9,600	68.48	1.63	1220
	1.500	0.109	0.109	0.104	1.66	1.282	0.456	1.311	42,900	55,300	11,000	12,200	10,400	67.01	1.60	1290
	1.500	0.118	0.118	0.113	1.79	1.264	0.492	1.275	46,100	59,400	11,800	13,100	11,800	65.14	1.55	1376
	1.500	0.125	0.125	0.118	1.89	1.250	0.512	1.255	48,600	62,600	12,600	14,000	13,000	63.71	1.52	1422
	1.500	0.134	0.134	0.127	2.01	1.232	0.548	1.219	51,800	66,700	13,400	14,900	13,800	61.89	1.47	1503
	1.500	0.145	0.145	0.138	2.15	1.210	0.590	1.177	55,600	71,600	14,600	16,200	15,000	59.70	1.42	1597
	1.500	0.156	0.156	0.148	2.30	1.188	0.629	1.139	59,300	76,400	15,800	17,500	16,100	57.55	1.37	1678
	1.500	0.175	0.175	0.167	2.54	1.150	0.699	1.068	65,600	84,500	17,300	19,200	17,600	53.92	1.28	1822
	1.500	0.188	0.188	0.180	2.70	1.124	0.746	1.021	69,700	89,900	18,500	20,500	18,700	51.51	1.23	1912
1.500	0.204	0.204	0.194	2.90	1.092	0.796	0.971	74,800	96,300	20,000	22,200	20,200	48.62	1.16	2003	
1-3/4	1.750	0.095	0.095	0.090	1.72	1.560	0.469	1.936	44,500	57,300	8,300	9,200	5,700	99.23	2.36	1605
	1.750	0.102	0.102	0.097	1.84	1.546	0.504	1.902	47,500	61,300	9,000	10,000	7,000	97.45	2.32	1709
	1.750	0.109	0.109	0.104	1.96	1.532	0.538	1.867	50,600	65,200	9,400	10,400	7,600	95.70	2.28	1810
	1.750	0.118	0.118	0.113	2.11	1.514	0.581	1.824	54,400	70,200	10,100	11,200	8,900	93.46	2.23	1936
	1.750	0.125	0.125	0.118	2.23	1.500	0.605	1.800	57,400	74,000	10,800	12,000	10,100	91.74	2.19	2004
	1.750	0.134	0.134	0.127	2.37	1.482	0.648	1.758	61,200	78,900	11,500	12,800	11,400	89.55	2.13	2123
	1.750	0.145	0.145	0.138	2.55	1.460	0.699	1.706	65,800	84,800	12,500	13,900	13,000	86.91	2.07	2263
	1.750	0.156	0.156	0.148	2.73	1.438	0.745	1.660	70,300	90,600	13,600	15,100	14,000	84.31	2.01	2385
	1.750	0.175	0.175	0.167	3.02	1.400	0.831	1.575	77,900	100,400	14,900	16,600	15,400	79.92	1.90	2603
	1.750	0.188	0.188	0.180	3.22	1.374	0.888	1.517	83,000	107,000	15,900	17,700	16,300	76.97	1.83	2743
	1.750	0.204	0.204	0.194	3.45	1.342	0.948	1.457	89,200	114,900	17,300	19,200	17,600	73.43	1.75	2885
1.750	0.224	0.224	0.214	3.74	1.302	1.033	1.373	96,600	124,600	19,000	21,100	19,200	69.12	1.65	3072	
1.750	0.250	0.250	0.240	4.11	1.250	1.139	1.267	106,000	136,700	21,200	23,500	21,300	63.71	1.52	3292	

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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	2.000	0.109	0.109	0.104	2.26	1.782	0.619	2.522	58,300	75,100	8,300	9,200	5,600	129.48	3.08	2418
	2.000	0.118	0.118	0.113	2.43	1.764	0.670	2.472	62,800	80,900	8,900	9,900	6,700	126.87	3.02	2591
	2.000	0.125	0.125	0.118	2.57	1.750	0.698	2.444	66,300	85,400	9,500	10,600	7,800	124.87	2.97	2685
	2.000	0.134	0.134	0.127	2.74	1.732	0.747	2.394	70,700	91,100	10,100	11,200	8,900	122.31	2.91	2851
	2.000	0.145	0.145	0.138	2.95	1.710	0.807	2.334	76,100	98,000	11,100	12,300	10,500	119.23	2.84	3046
	2.000	0.156	0.156	0.148	3.15	1.688	0.861	2.280	81,300	104,800	12,000	13,300	12,200	116.18	2.77	3217
	2.000	0.175	0.175	0.167	3.50	1.650	0.962	2.180	90,300	116,400	13,100	14,600	13,600	111.01	2.64	3527
	2.000	0.188	0.188	0.180	3.73	1.624	1.029	2.112	96,300	124,100	14,000	15,600	14,500	107.53	2.56	3726
	2.000	0.204	0.204	0.194	4.01	1.592	1.101	2.041	103,600	133,500	15,300	17,000	15,700	103.34	2.46	3931
	2.000	0.224	0.224	0.214	4.36	1.552	1.201	1.941	112,500	145,000	16,700	18,600	17,100	98.21	2.34	4205
	2.000	0.250	0.250	0.240	4.79	1.500	1.327	1.815	123,700	159,400	18,700	20,800	19,000	91.74	2.19	4532
	2.000	0.276	0.276	0.266	5.21	1.448	1.449	1.693	134,500	173,400	20,200	22,400	20,300	85.49	2.04	4827
2.000	0.281	0.281	0.271	5.29	1.438	1.472	1.670	136,600	176,000	20,400	22,700	20,600	84.31	2.01	4880	
2-3/8	2.375	0.109	0.109	0.104	2.71	2.157	0.742	3.688	69,800	90,000	6,900	7,700	3,600	189.70	4.52	3496
	2.375	0.118	0.118	0.113	2.92	2.139	0.803	3.627	75,300	97,100	7,500	8,300	4,300	186.55	4.44	3755
	2.375	0.125	0.125	0.118	3.08	2.125	0.837	3.593	79,500	102,500	8,000	8,900	5,200	184.12	4.39	3896
	2.375	0.134	0.134	0.127	3.29	2.107	0.897	3.533	84,900	109,400	8,600	9,500	6,100	181.01	4.31	4145
	2.375	0.145	0.145	0.138	3.54	2.085	0.970	3.460	91,400	117,800	9,400	10,400	7,500	177.25	4.22	4441
	2.375	0.156	0.156	0.148	3.79	2.063	1.035	3.395	97,900	126,200	10,100	11,200	8,900	173.53	4.13	4702
	2.375	0.175	0.175	0.167	4.22	2.025	1.158	3.272	108,900	140,300	11,200	12,400	10,700	167.20	3.98	5177
	2.375	0.188	0.188	0.180	4.50	1.999	1.241	3.189	116,300	149,800	12,000	13,300	12,100	162.93	3.88	5488
	2.375	0.204	0.204	0.194	4.85	1.967	1.329	3.101	125,200	161,400	13,000	14,400	13,400	157.76	3.76	5809
	2.375	0.224	0.224	0.214	5.28	1.927	1.453	2.977	136,200	175,600	14,200	15,800	14,700	151.40	3.61	6245
	2.375	0.250	0.250	0.240	5.82	1.875	1.610	2.820	150,200	193,600	16,000	17,800	16,300	143.34	3.42	6773
	2.375	0.276	0.276	0.266	6.34	1.823	1.762	2.668	163,800	211,100	17,200	19,100	17,500	135.50	3.23	7259
2.375	0.281	0.281	0.271	6.44	1.813	1.791	2.639	166,400	214,400	17,500	19,400	17,800	134.02	3.19	7348	

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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
2-3/8	2.375	0.300	0.300	0.288	6.81	1.775	1.888	2.542	176,000	226,900	18,600	20,700	18,900	128.46	3.06	7640
2-5/8	2.625	0.145	0.145	0.138	3.94	2.335	1.078	4.334	101,700	131,000	8,500	9,400	5,900	222.31	5.30	5517
	2.625	0.156	0.156	0.148	4.22	2.313	1.152	4.260	108,900	140,400	9,200	10,200	7,200	218.14	5.20	5848
	2.625	0.175	0.175	0.167	4.69	2.275	1.290	4.122	121,200	156,200	10,100	11,200	8,900	211.03	5.03	6455
	2.625	0.188	0.188	0.180	5.02	2.249	1.383	4.029	129,500	167,000	10,800	12,000	10,100	206.23	4.91	6853
	2.625	0.204	0.204	0.194	5.41	2.217	1.482	3.930	139,600	180,000	11,800	13,100	11,800	200.40	4.77	7267
	2.625	0.224	0.224	0.214	5.89	2.177	1.621	3.791	152,100	196,000	12,900	14,300	13,400	193.24	4.60	7832
	2.625	0.250	0.250	0.240	6.50	2.125	1.798	3.614	167,900	216,400	14,500	16,100	14,900	184.12	4.39	8521
	2.625	0.276	0.276	0.266	7.10	2.073	1.971	3.441	183,300	236,300	15,700	17,400	16,000	175.22	4.17	9162
	2.625	0.281	0.281	0.271	7.21	2.063	2.004	3.408	186,200	240,000	15,800	17,600	16,200	173.53	4.13	9280
2-7/8	2.875	0.134	0.134	0.127	4.02	2.607	1.096	5.395	103,800	133,900	7,100	7,900	3,800	277.11	6.60	6248
	2.875	0.145	0.145	0.138	4.33	2.585	1.187	5.305	111,900	144,300	7,700	8,600	4,700	272.46	6.49	6710
	2.875	0.156	0.156	0.148	4.64	2.563	1.268	5.224	119,900	154,600	8,400	9,300	5,800	267.84	6.38	7121
	2.875	0.175	0.175	0.167	5.17	2.525	1.421	5.071	133,600	172,200	9,300	10,300	7,400	259.96	6.19	7875
	2.875	0.188	0.188	0.180	5.53	2.499	1.524	4.968	142,800	184,100	9,900	11,000	8,500	254.63	6.07	8372
	2.875	0.204	0.204	0.194	5.97	2.467	1.634	4.858	154,100	198,600	10,800	12,000	10,000	248.15	5.91	8890
	2.875	0.224	0.224	0.214	6.50	2.427	1.789	4.703	167,900	216,400	11,800	13,100	11,900	240.17	5.72	9600
	2.875	0.250	0.250	0.240	7.18	2.375	1.987	4.505	185,600	239,200	13,300	14,800	13,800	229.99	5.48	10473
	2.875	0.276	0.276	0.266	7.85	2.323	2.180	4.312	202,800	261,400	14,400	16,000	14,800	220.03	5.24	11291
	2.875	0.281	0.281	0.271	7.98	2.313	2.217	4.275	206,100	265,600	14,600	16,200	15,000	218.14	5.20	11442
3-1/4	3.250	0.145	0.145	0.138	4.93	2.960	1.349	6.947	127,300	164,100	6,800	7,600	3,500	357.24	8.51	8721
	3.250	0.156	0.156	0.148	5.28	2.938	1.442	6.853	136,500	175,900	7,500	8,300	4,100	351.95	8.39	9266
	3.250	0.175	0.175	0.167	5.89	2.900	1.617	6.678	152,200	196,100	8,200	9,100	5,500	342.90	8.17	10271
	3.250	0.188	0.188	0.180	6.30	2.874	1.736	6.560	162,800	209,800	8,700	9,700	6,500	336.78	8.02	10936

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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	ft.lbs	
3-1/4	3.250	0.204	0.204	0.194	6.80	2.842	1.863	6.433	175,700	226,400	9,500	10,600	7,900	329.32	7.85	11633
	3.250	0.224	0.224	0.214	7.42	2.802	2.041	6.255	191,700	247,000	10,400	11,600	9,500	320.12	7.63	12594
	3.250	0.250	0.250	0.240	8.21	2.750	2.269	6.026	212,100	273,300	11,800	13,100	11,900	308.35	7.35	13784
	3.250	0.276	0.276	0.266	8.98	2.698	2.494	5.802	232,100	299,100	12,800	14,200	13,200	296.80	7.07	14908
	3.250	0.281	0.281	0.271	9.13	2.688	2.536	5.760	235,900	304,000	13,000	14,400	13,400	294.60	7.02	15117
	3.250	0.300	0.300	0.288	9.69	2.650	2.680	5.616	250,200	322,500	13,900	15,400	14,300	286.33	6.82	15810
3-1/2	3.500	0.156	0.156	0.148	5.71	3.188	1.559	8.063	147,500	190,100	6,900	7,700	3,600	414.39	9.87	10853
	3.500	0.175	0.175	0.167	6.37	3.150	1.749	7.872	164,500	212,000	7,700	8,500	4,500	404.57	9.64	12046
	3.500	0.188	0.188	0.180	6.82	3.124	1.877	7.744	176,100	226,900	8,200	9,100	5,400	397.92	9.48	12837
	3.500	0.204	0.204	0.194	7.36	3.092	2.015	7.606	190,100	245,000	8,900	9,900	6,700	389.81	9.29	13668
	3.500	0.224	0.224	0.214	8.03	3.052	2.209	7.412	207,500	267,400	9,700	10,800	8,300	379.79	9.05	14817
	3.500	0.250	0.250	0.240	8.89	3.000	2.458	7.163	229,700	296,100	11,000	12,200	10,500	366.96	8.74	16245
	3.500	0.276	0.276	0.266	9.74	2.948	2.703	6.919	251,600	324,300	11,900	13,200	12,000	354.35	8.44	17601
	3.500	0.281	0.281	0.271	9.90	2.938	2.749	6.872	255,800	329,600	12,100	13,400	12,300	351.95	8.39	17854
	3.500	0.300	0.300	0.288	10.51	2.900	2.906	6.715	271,400	349,800	13,000	14,400	13,400	342.90	8.17	18694

### Chemistry Composition

C,% 0.03 max Mn,% 1.20 max P,% 0.035 max S,% 0.020 max Si,% 0.80 max  
Cr,% 24.0-26.0 Ni,% 6.00-8.00 Mo,% 3.00-5.00 N,% 0.24-0.32 Cu,% 0.50 max

### Mechanical Properties

Tensile Strength: 116,000psi (800MPa) min  
Yield Strength: 90,000psi (621MPa) min  
Hardness: 300HBW or 32HRC max

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