LaserLine® Coiled Tubing - 316L Stainless Steel per ASTM A269

Coiled Tubing Plants - Mannford & Kellyville, OK USA

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OD inches	Ave. Wall inches	Wt/Ft (lbs.)	D/t Ratio	ID inches	Tube Cross Sectional Area (in^2)	Internal Area (in^2)	Min Yield Strength (PSI)	Min Tensile Strength (PSI)	Theoretical Burst Pressure * (PSI)	Working Pressure (PSI) 25% of Burst	Theoretical Yield Point ** (PSI)	Collapse Pressure *** (PSI)
0.250	0.028	0.067	8.93	0.194	0.0195	0.0296	40,000	80,000	23,093	5,773	11,546	7,956
0.250	0.035	0.081	7.14	0.180	0.0236	0.0254	40,000	80,000	31,111	7,778	15,556	9,632
0.250	0.049	0.106	5.10	0.152	0.0309	0.0181	40,000	80,000	51,579	12,895	25,789	12,607
0.250	0.065	0.130	3.85	0.120	0.0378	0.0113	40,000	80,000	86,667	21,667	43,333	15,392
0.313	0.035	0.105	8.94	0.243	0.0306	0.0464	40,000	80,000	23,045	5,761	11,523	7,945
0.313	0.049	0.139	6.39	0.215	0.0406	0.0363	40,000	80,000	36,465	9,116	18,233	10,563
0.313	0.065	0.174	4.82	0.183	0.0506	0.0263	40,000	80,000	56,831	14,208	28,415	13,163
0.375	0.035	0.128	10.71	0.305	0.0374	0.0731	40,000	80,000	18,361	4,590	9,180	6,770
0.375	0.049	0.172	7.65	0.277	0.0502	0.0603	40,000	80,000	28,303	7,076	14,152	9,087
0.375	0.065	0.217	5.77	0.245	0.0633	0.0471	40,000	80,000	42,449	10,612	21,224	11,463
0.500	0.035	0.175	14.29	0.430	0.0511	0.1452	40,000	80,000	13,023	3,256	6,512	5,208
0.500	0.049	0.238	10.20	0.402	0.0694	0.1269	40,000	80,000	19,502	4,876	9,751	7,072
0.500	0.065	0.305	7.69	0.370	0.0888	0.1075	40,000	80,000	28,108	7,027	14,054	9,048
0.500	0.083	0.373	6.02	0.334	0.1087	0.0876	40,000	80,000	39,760	9,940	19,880	11,076
0.625	0.035	0.223	17.86	0.555	0.0649	0.2419	40,000	80,000	10,090	2,523	5,045	4,229
0.625	0.049	0.304	12.76	0.527	0.0887	0.2181	40,000	80,000	14,877	3,719	7,438	5,780
0.625	0.065	0.392	9.62	0.495	0.1144	0.1924	40,000	80,000	21,010	5,253	10,505	7,455
0.625	0.083	0.485	7.53	0.459	0.1413	0.1655	40,000	80,000	28,932	7,233	14,466	9,213
0.750	0.035	0.270	21.43	0.680	0.0786	0.3632	40,000	80,000	8,235	2,059	4,118	3,559
0.750	0.049	0.370	15.31	0.652	0.1079	0.3339	40,000	80,000	12,025	3,006	6,012	4,885
0.750	0.065	0.480	11.54	0.620	0.1399	0.3019	40,000	80,000	16,774	4,194	8,387	6,332
0.750	0.083	0.597	9.04	0.584	0.1739	0.2679	40,000	80,000	22,740	5,685	11,370	7,874
1.000	0.049	0.502	20.41	0.902	0.1464	0.6390	40,000	80,000	8,692	2,173	4,346	3,728
1.000	0.065	0.655	15.38	0.870	0.1909	0.5945	40,000	80,000	11,954	2,989	5,977	4,862
1.000	0.083	0.820	12.05	0.834	0.2391	0.5463	40,000	80,000	15,923	3,981	7,962	6,089
1.000	0.095	0.927	10.53	0.810	0.2701	0.5153	40,000	80,000	18,765	4,691	9,383	6,878
1.000	0.109	1.047	9.17	0.782	0.3051	0.4803	40,000	80,000	22,302	5,575	11,151	7,770
1.250	0.065	0.830	19.23	1.120	0.2420	0.9852	40,000	80,000	9,286	2,321	4,643	3,944
1.250	0.083	1.044	15.06	1.084	0.3043	0.9229	40,000	80,000	12,251	3,063	6,125	4,959
1.250	0.109	1.341	11.47	1.032	0.3907	0.8365	40,000	80,000	16,899	4,225	8,450	6,368
1.250	0.120	1.462	10.42	1.010	0.4260	0.8012	40,000	80,000	19,010	4,752	9,505	6,943
1.500	0.065	1.006	23.08	1.370	0.2930	1.4741	40,000	80,000	7,591	1,898	3,796	3,316
1.500	0.083	1.268	18.07	1.334	0.3695	1.3977	40,000	80,000	9,955	2,489	4,978	4,182
1.500	0.095	1.439	15.79	1.310	0.4193	1.3478	40,000	80,000	11,603	2,901	5,802	4,746
1.500	0.109	1.634	13.76	1.282	0.4763	1.2908	40,000	80,000	13,604	3,401	6,802	5,391
1.500	0.120	1.785	12.50	1.260	0.5202	1.2469	40,000	80,000	15,238	3,810	7,619	5,888

Burst pressure estimates are based on minimum tensile strength using Barlows Formula.

*** Barlows is expressed as ((2 * MTS * WT)/ID) for estimating theoretical burst pressure. The use of ID in the equation results in higher values. OD can be substituted in the calculation for a more conservative value.**

The end user should determine the appropriate working pressure and safety factor for the specific application given all relevant operating conditions.

**** Theoretical yield pressure is the point of permanent deformation and calculated by substituting the MYS value in the equation.**

***** Collapse pressure estimate shown is per API 5C3 calculation. Formula: 2 * MYS * (D/t Ratio - 1) / (D/t Ratio^2)**