

DURACOIL 125

Coiled Tubing Technical Data

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS)	125,000 psi
Specified Min Tensile Strength (SMTS)	130,000 psi
Max Hardness	33 HRC
Min. Elongation, % (2" Gage Length)	Per API: Min% = 625000 * Area ^{0.2} / SMTS ^{0.9}

Specified Dimensions				Axial Load Capacity		Pressure Capacity		Torsional Strength		External Displacement per 1000 ft		Internal Capacity per 1000 ft	
Outside Diameter D (in)	Wall Thickness t (in)	Inside Diameter d (in)	Nominal Weight w (lb/ft)	Yield Load Ly (lb) t _{nom}	Tensile Load Lt (lb) t _{nom}	Yield Pressure Y _p (psi)	Hydrotest Pressure 90% Y _p (psi)	Yield (ft/lb) t _{min}	Ultimate (ft/lb) t _{min}	Gallons	Barrels	Gallons ²	Barrels ³
1.250	0.109	1.032	1.33	48,840	50,790	20,800	15,000	1,193	1,240	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	51,660	53,720	22,200	15,000	1,251	1,301	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	55,220	57,430	23,600	15,000	1,308	1,360	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	58,730	61,070	25,400	15,000	1,377	1,432	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	62,920	65,440	27,600	15,000	1,456	1,514	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	67,020	69,700	29,800	15,000	1,530	1,592	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	73,880	76,830	33,600	15,000	1,647	1,713	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	79,090	82,250	36,000	15,000	1,714	1,782	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	83,800	87,150	38,800	15,000	1,785	1,856	63.75	1.52	28.93	0.69
1.500	0.109	1.282	1.62	59,540	61,920	17,330	15,000	1,792	1,863	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	63,050	65,570	18,500	15,000	1,885	1,961	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	67,500	70,200	19,670	15,000	1,976	2,055	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	71,880	74,760	21,170	15,000	2,088	2,171	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	77,160	80,240	23,000	15,000	2,218	2,307	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	82,340	85,630	24,830	15,000	2,342	2,436	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	91,060	94,700	28,000	15,000	2,540	2,642	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	97,740	101,650	30,000	15,000	2,656	2,762	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	103,820	107,980	32,330	15,000	2,782	2,893	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	112,240	116,730	35,670	15,000	2,946	3,063	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	70,240	73,050	14,860	13,370	2,514	2,614	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	74,430	77,410	15,860	14,270	2,650	2,756	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	79,770	82,960	16,860	15,000	2,783	2,894	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	85,040	88,440	18,140	15,000	2,949	3,067	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	91,390	95,050	19,710	15,000	3,143	3,269	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	97,650	101,560	21,290	15,000	3,329	3,462	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	108,240	112,570	24,000	15,000	3,631	3,776	124.95	2.97	79.97	1.90
1.750	0.190	1.370	3.17	116,400	121,050	25,710	15,000	3,810	3,962	124.95	2.97	76.58	1.82
1.750	0.204	1.342	3.38	123,850	128,810	27,710	15,000	4,006	4,167	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	134,230	139,600	30,570	15,000	4,267	4,438	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	140,310	145,930	32,290	15,000	4,413	4,590	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	147,260	153,150	34,290	15,000	4,573	4,756	124.95	2.97	63.75	1.52

Specified Dimensions				Axial Load Capacity		Pressure Capacity		Torsional Strength		External Displacement per 1000 ft		Internal Capacity per 1000 ft	
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2.000	0.109	1.782	2.21	80,940	84,180	13,000	11,700	3,358	3,492	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	85,820	89,260	13,880	12,490	3,546	3,688	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	92,040	95,720	14,750	13,280	3,730	3,879	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	98,190	102,120	15,880	14,290	3,960	4,118	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	105,630	109,850	17,250	15,000	4,231	4,400	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	112,970	117,480	18,630	15,000	4,492	4,672	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	125,420	130,440	21,000	15,000	4,920	5,117	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	135,050	140,450	22,500	15,000	5,175	5,383	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	143,880	149,630	24,250	15,000	5,460	5,678	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	156,230	162,470	26,750	15,000	5,841	6,075	163.20	3.89	98.27	2.34
2.000	0.236	1.528	4.46	163,480	170,020	28,250	15,000	6,056	6,298	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	171,810	178,680	30,000	15,000	6,295	6,547	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	186,860	194,330	33,250	15,000	6,705	6,973	163.20	3.89	85.55	2.04
2.375	0.125	2.125	3.01	110,450	114,860	12,420	11,180	5,411	5,627	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	117,930	122,640	13,370	12,030	5,757	5,987	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	126,980	132,060	14,530	13,080	6,168	6,415	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	135,940	141,380	15,680	14,110	6,566	6,829	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	151,190	157,240	17,680	15,000	7,225	7,514	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	163,030	169,550	18,950	15,000	7,622	7,927	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	173,920	180,880	20,420	15,000	8,069	8,391	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	189,210	196,780	22,530	15,000	8,674	9,021	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	198,240	206,170	23,790	15,000	9,020	9,381	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	208,620	216,970	25,260	15,000	9,407	9,784	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	227,500	236,600	28,000	15,000	10,083	10,486	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	131,080	136,320	12,100	10,890	7,142	7,428	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	141,210	146,860	13,140	11,830	7,663	7,969	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	151,250	157,300	14,190	12,770	8,169	8,495	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	168,370	175,100	16,000	14,400	9,009	9,370	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	181,680	188,950	17,140	15,000	9,519	9,900	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	193,950	201,710	18,480	15,000	10,094	10,497	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	211,200	219,650	20,380	15,000	10,878	11,313	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	221,410	230,260	21,520	15,000	11,329	11,782	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	233,170	242,490	22,860	15,000	11,836	12,309	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	254,600	264,780	25,330	15,000	12,726	13,235	281.14	6.69	175.33	4.17

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2.875	0.145	2.585	4.24	155,450	161,670	12,000	10,800	9,320	9,693	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	166,570	173,230	12,960	11,660	9,947	10,345	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	185,550	192,970	14,610	13,150	10,992	11,432	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	200,340	208,350	15,650	14,090	11,628	12,093	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	213,980	222,530	16,870	15,000	12,348	12,842	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	233,190	242,520	18,610	15,000	13,335	13,868	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	244,580	254,360	19,650	15,000	13,904	14,460	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	257,710	268,020	20,870	15,000	14,547	15,129	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	281,690	292,960	23,130	15,000	15,683	16,310	337.24	8.03	220.17	5.24