

DURACOIL 130

Coiled Tubing Technical Data

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS)	130,000 psi
Specified Min Tensile Strength (SMTS)	135,000 psi
Max Hardness	37 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	50,790	52,750	21,630	15,000	1,240	1,288	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	53,720	55,790	23,090	15,000	1,301	1,351	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	57,430	59,640	24,540	15,000	1,360	1,412	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	61,070	63,420	26,420	15,000	1,432	1,487	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	65,440	67,950	28,700	15,000	1,514	1,573	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	69,700	72,380	30,990	15,000	1,592	1,653	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	76,830	79,790	34,940	15,000	1,713	1,779	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	82,250	85,420	37,440	15,000	1,782	1,851	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	87,150	90,500	40,350	15,000	1,856	1,927	63.75	1.52	28.93	0.69
1.500	0.109	1.282	1.62	61,920	64,300	18,030	15,000	1,863	1,935	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	65,570	68,090	19,240	15,000	1,961	2,036	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	70,200	72,890	20,450	15,000	2,055	2,134	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	74,760	77,630	22,010	15,000	2,171	2,255	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	80,240	83,330	23,920	15,000	2,307	2,396	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	85,630	88,920	25,830	15,000	2,436	2,529	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	94,700	98,340	29,120	15,000	2,642	2,743	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	101,650	105,560	31,200	15,000	2,762	2,868	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	107,980	112,130	33,630	15,000	2,893	3,004	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	116,730	121,220	37,090	15,000	3,063	3,181	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	73,050	75,860	15,450	13,910	2,614	2,715	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	77,410	80,390	16,490	14,840	2,756	2,862	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	82,960	86,150	17,530	15,000	2,894	3,006	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	88,440	91,840	18,870	15,000	3,067	3,185	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	95,050	98,700	20,500	15,000	3,269	3,395	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	101,560	105,460	22,140	15,000	3,462	3,596	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	112,570	116,900	24,960	15,000	3,776	3,922	124.95	2.97	79.97	1.90
1.750	0.190	1.370	3.17	121,050	125,710	26,740	15,000	3,962	4,114	124.95	2.97	76.58	1.82
1.750	0.204	1.342	3.38	128,810	133,760	28,820	15,000	4,167	4,327	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	139,600	144,970	31,790	15,000	4,438	4,609	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	145,930	151,540	33,580	15,000	4,590	4,766	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	153,150	159,040	35,660	15,000	4,756	4,939	124.95	2.97	63.75	1.52

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2.000	0.109	1.782	2.21	84,180	87,420	13,520	12,170	3,492	3,627	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	89,260	92,690	14,430	12,990	3,688	3,830	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	95,720	99,400	15,340	13,810	3,879	4,028	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	102,120	106,050	16,510	14,860	4,118	4,276	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	109,850	114,080	17,940	15,000	4,400	4,569	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	117,480	122,000	19,370	15,000	4,672	4,851	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	130,440	135,450	21,840	15,000	5,117	5,314	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	140,450	145,850	23,400	15,000	5,383	5,590	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	149,630	155,390	25,220	15,000	5,678	5,897	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	162,470	168,720	27,820	15,000	6,075	6,308	163.20	3.89	98.27	2.34
2.000	0.236	1.528	4.46	170,020	176,560	29,380	15,000	6,298	6,541	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	178,680	185,550	31,200	15,000	6,547	6,798	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	194,330	201,800	34,580	15,000	6,973	7,241	163.20	3.89	85.55	2.04
2.375	0.125	2.125	3.01	114,860	119,280	12,920	11,630	5,627	5,844	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	122,640	127,360	13,900	12,510	5,987	6,217	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	132,060	137,140	15,110	13,600	6,415	6,661	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	141,380	146,810	16,310	14,680	6,829	7,091	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	157,240	163,280	18,390	15,000	7,514	7,803	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	169,550	176,070	19,710	15,000	7,927	8,232	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	180,880	187,830	21,240	15,000	8,391	8,714	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	196,780	204,350	23,430	15,000	9,021	9,368	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	206,170	214,100	24,740	15,000	9,381	9,741	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	216,970	225,310	26,270	15,000	9,784	10,160	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	236,600	245,700	29,120	15,000	10,486	10,889	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	136,320	141,570	12,580	11,320	7,428	7,714	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	146,860	152,510	13,670	12,300	7,969	8,276	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	157,300	163,350	14,760	13,280	8,495	8,822	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	175,100	181,840	16,640	14,980	9,370	9,730	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	188,950	196,220	17,830	15,000	9,900	10,281	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	201,710	209,460	19,220	15,000	10,497	10,901	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	219,650	228,100	21,200	15,000	11,313	11,748	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	230,260	239,120	22,380	15,000	11,782	12,235	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	242,490	251,820	23,770	15,000	12,309	12,782	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	264,780	274,960	26,350	15,000	13,235	13,744	281.14	6.69	175.33	4.17

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2.875	0.145	2.585	4.24	161,670	167,890	12,480	11,230	9,693	10,066	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	173,230	179,890	13,470	12,120	10,345	10,743	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	192,970	200,390	15,190	13,670	11,432	11,871	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	208,350	216,360	16,280	14,650	12,093	12,558	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	222,530	231,090	17,540	15,000	12,842	13,336	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	242,520	251,850	19,350	15,000	13,868	14,401	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	254,360	264,140	20,440	15,000	14,460	15,016	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	268,020	278,330	21,700	15,000	15,129	15,711	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	292,960	304,230	24,060	15,000	16,310	16,937	337.24	8.03	220.17	5.24