

DURACOIL 100

Coiled Tubing Technical Data

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS)	100,000 psi
Specified Min Tensile Strength (SMTS)	105,000 psi
Max Hardness	28 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	39,070	41,030	16,640	14,980	954	1,002	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	41,330	43,390	17,760	15,000	1,001	1,051	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	44,180	46,390	18,880	15,000	1,046	1,098	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	46,980	49,330	20,320	15,000	1,101	1,156	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	50,340	52,850	22,080	15,000	1,165	1,223	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	53,620	56,300	23,840	15,000	1,224	1,285	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	59,100	62,060	26,880	15,000	1,318	1,383	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	63,270	66,440	28,800	15,000	1,371	1,439	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	67,040	70,390	31,040	15,000	1,428	1,499	63.75	1.52	28.93	0.69
1.500	0.109	1.282	1.62	47,630	50,010	13,870	12,480	1,433	1,505	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	50,440	52,960	14,800	13,320	1,508	1,584	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	54,000	56,700	15,730	14,160	1,581	1,660	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	57,510	60,380	16,930	15,000	1,670	1,754	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	61,720	64,810	18,400	15,000	1,775	1,863	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	65,870	69,160	19,870	15,000	1,874	1,967	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	72,850	76,490	22,400	15,000	2,032	2,134	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	78,190	82,100	24,000	15,000	2,125	2,231	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	83,060	87,210	25,870	15,000	2,225	2,337	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	89,790	94,280	28,530	15,000	2,356	2,474	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	56,190	59,000	11,890	10,700	2,011	2,111	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	59,550	62,520	12,690	11,420	2,120	2,226	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	63,810	67,000	13,490	12,140	2,227	2,338	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	68,030	71,430	14,510	13,060	2,359	2,477	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	73,110	76,770	15,770	14,190	2,515	2,640	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	78,120	82,030	17,030	15,000	2,663	2,797	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	86,590	90,920	19,200	15,000	2,905	3,050	124.95	2.97	79.97	1.90
1.750	0.190	1.370	3.17	93,120	97,770	20,570	15,000	3,048	3,200	124.95	2.97	76.58	1.82
1.750	0.204	1.342	3.38	99,080	104,040	22,170	15,000	3,205	3,365	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	107,390	112,760	24,460	15,000	3,414	3,585	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	112,250	117,860	25,830	15,000	3,530	3,707	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	117,810	123,700	27,430	15,000	3,658	3,841	124.95	2.97	63.75	1.52

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2.000	0.109	1.782	2.21	64,750	67,990	10,400	9,360	2,686	2,821	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	68,660	72,090	11,100	9,990	2,837	2,979	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	73,630	77,310	11,800	10,620	2,984	3,133	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	78,550	82,480	12,700	11,430	3,168	3,326	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	84,500	88,730	13,800	12,420	3,385	3,554	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	90,370	94,890	14,900	13,410	3,594	3,773	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	100,330	105,350	16,800	15,000	3,936	4,133	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	108,040	113,440	18,000	15,000	4,140	4,347	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	115,100	120,860	19,400	15,000	4,368	4,586	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	124,980	131,230	21,400	15,000	4,673	4,906	163.20	3.89	98.27	2.34
2.000	0.236	1.528	4.46	130,790	137,330	22,600	15,000	4,845	5,087	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	137,450	144,320	24,000	15,000	5,036	5,288	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	149,480	156,960	26,600	15,000	5,364	5,632	163.20	3.89	85.55	2.04
2.375	0.125	2.125	3.01	88,360	92,780	9,940	8,950	4,329	4,545	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	94,340	99,060	10,690	9,620	4,605	4,836	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	101,580	106,660	11,620	10,460	4,934	5,181	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	108,750	114,190	12,550	11,300	5,253	5,516	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	120,950	127,000	14,150	12,740	5,780	6,069	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	130,420	136,940	15,160	13,640	6,098	6,403	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	139,140	146,090	16,340	14,710	6,455	6,778	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	151,370	158,940	18,020	15,000	6,939	7,286	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	158,590	166,520	19,030	15,000	7,216	7,577	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	166,900	175,240	20,210	15,000	7,526	7,902	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	182,000	191,100	22,400	15,000	8,066	8,469	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	104,860	110,110	9,680	8,710	5,714	6,000	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	112,970	118,620	10,510	9,460	6,130	6,437	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	121,000	127,050	11,350	10,220	6,535	6,862	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	134,700	141,430	12,800	11,520	7,207	7,568	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	145,350	152,610	13,710	12,340	7,615	7,996	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	155,160	162,920	14,780	13,300	8,075	8,479	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	168,960	177,410	16,300	14,670	8,702	9,138	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	177,120	185,980	17,220	15,000	9,063	9,516	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	186,530	195,860	18,290	15,000	9,468	9,942	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	203,680	213,860	20,270	15,000	10,181	10,690	281.14	6.69	175.33	4.17

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2.875	0.145	2.585	4.24	124,360	130,580	9,600	8,640	7,456	7,829	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	133,260	139,920	10,370	9,330	7,958	8,355	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	148,440	155,860	11,690	10,520	8,794	9,233	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	160,270	168,280	12,520	11,270	9,303	9,768	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	171,180	179,740	13,500	12,150	9,878	10,372	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	186,560	195,880	14,890	13,400	10,668	11,201	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	195,660	205,440	15,720	14,150	11,123	11,679	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	206,170	216,480	16,700	15,000	11,638	12,219	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	225,350	236,620	18,500	15,000	12,546	13,174	337.24	8.03	220.17	5.24