

DURACOIL 125

Coiled Tubing Technical Data

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS) 125,000 psi

Specified Min Tensile Strength (SMTS) 133,000 psi

Max Hardness 33 HRC

Min. Elongation, % (2" Gage Length) Per API: $\text{Min}\% = 625000 * \text{Area}^{0.2} / \text{SMTS}^{0.9}$

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	51,970	20,800	15,000	1,193	1,269	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	51,660	54,960	22,200	15,000	1,251	1,331	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	55,220	58,760	23,600	15,000	1,308	1,391	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	58,730	62,480	25,400	15,000	1,377	1,465	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	62,920	66,950	27,600	15,000	1,456	1,549	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	67,020	71,310	29,800	15,000	1,530	1,628	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	73,880	78,600	33,600	15,000	1,647	1,752	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	79,090	84,150	36,000	15,000	1,714	1,823	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	83,800	89,160	38,800	15,000	1,785	1,899	63.75	1.52	28.93	0.69
1.500	0.109	1.282	1.62	59,540	63,350	17,330	15,000	1,792	1,906	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	63,050	67,080	18,500	15,000	1,885	2,006	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	67,500	71,820	19,670	15,000	1,976	2,102	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	71,880	76,480	21,170	15,000	2,088	2,221	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	77,160	82,090	23,000	15,000	2,218	2,360	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	82,340	87,600	24,830	15,000	2,342	2,492	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	91,060	96,880	28,000	15,000	2,540	2,703	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	97,740	104,000	30,000	15,000	2,656	2,826	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	103,820	110,470	32,330	15,000	2,782	2,960	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	112,240	119,430	35,670	15,000	2,946	3,134	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	70,240	74,740	14,860	13,370	2,514	2,674	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	74,430	79,200	15,860	14,270	2,650	2,820	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	79,770	84,870	16,860	15,000	2,783	2,961	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	85,040	90,480	18,140	15,000	2,949	3,137	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	91,390	97,240	19,710	15,000	3,143	3,344	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	97,650	103,900	21,290	15,000	3,329	3,542	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	108,240	115,170	24,000	15,000	3,631	3,863	124.95	2.97	79.97	1.90
1.750	0.190	1.370	3.17	116,400	123,850	25,710	15,000	3,810	4,053	124.95	2.97	76.58	1.82
1.750	0.204	1.342	3.38	123,850	131,780	27,710	15,000	4,006	4,263	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	134,230	142,830	30,570	15,000	4,267	4,541	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	140,310	149,290	32,290	15,000	4,413	4,696	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	147,260	156,690	34,290	15,000	4,573	4,866	124.95	2.97	63.75	1.52

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2.000	0.109	1.782	2.21	80,940	86,120	13,000	11,700	3,358	3,573	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	85,820	91,310	13,880	12,490	3,546	3,773	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	92,040	97,930	14,750	13,280	3,730	3,968	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	98,190	104,480	15,880	14,290	3,960	4,213	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	105,630	112,390	17,250	15,000	4,231	4,502	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	112,970	120,200	18,630	15,000	4,492	4,780	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	125,420	133,450	21,000	15,000	4,920	5,235	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	135,050	143,690	22,500	15,000	5,175	5,507	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	143,880	153,090	24,250	15,000	5,460	5,809	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	156,230	166,220	26,750	15,000	5,841	6,215	163.20	3.89	98.27	2.34
2.000	0.236	1.528	4.46	163,480	173,950	28,250	15,000	6,056	6,444	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	171,810	182,800	30,000	15,000	6,295	6,698	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	186,860	198,810	33,250	15,000	6,705	7,134	163.20	3.89	85.55	2.04
2.375	0.125	2.125	3.01	110,450	117,520	12,420	11,180	5,411	5,757	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	117,930	125,470	13,370	12,030	5,757	6,125	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	126,980	135,110	14,530	13,080	6,168	6,563	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	135,940	144,640	15,680	14,110	6,566	6,986	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	151,190	160,870	17,680	15,000	7,225	7,687	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	163,030	173,460	18,950	15,000	7,622	8,110	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	173,920	185,050	20,420	15,000	8,069	8,585	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	189,210	201,320	22,530	15,000	8,674	9,229	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	198,240	210,920	23,790	15,000	9,020	9,597	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	208,620	221,970	25,260	15,000	9,407	10,009	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	227,500	242,060	28,000	15,000	10,083	10,728	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	131,080	139,470	12,100	10,890	7,142	7,599	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	141,210	150,250	13,140	11,830	7,663	8,153	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	151,250	160,930	14,190	12,770	8,169	8,691	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	168,370	179,150	16,000	14,400	9,009	9,586	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	181,680	193,310	17,140	15,000	9,519	10,128	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	193,950	206,360	18,480	15,000	10,094	10,740	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	211,200	224,720	20,380	15,000	10,878	11,574	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	221,410	235,580	21,520	15,000	11,329	12,054	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	233,170	248,090	22,860	15,000	11,836	12,593	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	254,600	270,890	25,330	15,000	12,726	13,540	281.14	6.69	175.33	4.17

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2.875	0.145	2.585	4.24	155,450	165,400	12,000	10,800	9,320	9,917	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	166,570	177,230	12,960	11,660	9,947	10,584	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	185,550	197,430	14,610	13,150	10,992	11,695	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	200,340	213,160	15,650	14,090	11,628	12,372	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	213,980	227,670	16,870	15,000	12,348	13,138	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	233,190	248,120	18,610	15,000	13,335	14,188	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	244,580	260,230	19,650	15,000	13,904	14,794	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	257,710	274,200	20,870	15,000	14,547	15,478	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	281,690	299,720	23,130	15,000	15,683	16,687	337.24	8.03	220.17	5.24