

DURACOIL 95

Coiled Tubing Technical Data

TOLERANCES

Outside Diameter (inch):	Nominal O.D. ± 0.010	
Wall Thickness (inch):	Up to 0.087	(-0.004, +0.010)
	0.095 to 0.116	(-0.005, +0.010)
	0.125 to 0.145	(-0.007, +0.012)
	0.156 to 0.175	(-0.008, +0.012)
	0.190 to 0.276	(-0.010, +0.012)

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS) 95,000 psi

Specified Min Tensile Strength (SMTS) 103,000 psi

Max Hardness 26 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 1,000 ft		Internal Capacity per 1,000 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 Yp (psi)	Hydrotest Pressure Hp (psi)	Yield (ft.lbf) t _{min}	Ultimate (ft.lbf) t _{min}	Gallons	Barrels	Gallons	Barrels
1.250	0.080	1.090	1.00	27,940	30,290	11,550	10,400	709	769	63.75	1.52	48.47	1.15
1.250	0.087	1.076	1.08	30,200	32,740	12,620	11,360	761	826	63.75	1.52	47.24	1.12
1.250	0.095	1.060	1.17	32,750	35,510	13,680	12,310	812	880	63.75	1.52	45.84	1.09
1.250	0.102	1.046	1.25	34,950	37,890	14,740	13,270	860	932	63.75	1.52	44.64	1.06
1.250	0.109	1.032	1.33	37,120	40,240	15,810	14,230	906	983	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	39,260	42,570	16,870	15,000	951	1,031	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	41,970	45,500	17,940	15,000	994	1,077	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	44,630	48,390	19,300	15,000	1,046	1,134	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	47,820	51,850	20,980	15,000	1,107	1,200	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	50,940	55,220	22,500	15,000	1,158	1,256	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	56,150	60,870	25,380	15,000	1,247	1,352	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	60,110	65,170	27,360	15,000	1,302	1,412	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	63,680	69,050	29,490	15,000	1,356	1,471	63.75	1.52	28.93	0.69
1.500	0.087	1.326	1.32	36,690	39,780	10,510	9,460	1,134	1,230	91.80	2.19	71.74	1.71
1.500	0.095	1.310	1.43	39,840	43,190	11,400	10,260	1,212	1,315	91.80	2.19	70.02	1.67
1.500	0.102	1.296	1.53	42,560	46,140	12,290	11,060	1,288	1,397	91.80	2.19	68.53	1.63
1.500	0.109	1.282	1.62	45,250	49,060	13,170	11,850	1,362	1,476	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	47,910	51,950	14,060	12,650	1,433	1,553	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	51,300	55,620	14,950	13,460	1,502	1,628	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	54,630	59,230	16,090	14,480	1,587	1,720	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	58,640	63,580	17,480	15,000	1,686	1,828	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	62,570	67,840	18,750	15,000	1,772	1,921	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	69,200	75,030	21,150	15,000	1,923	2,085	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	74,280	80,540	22,800	15,000	2,018	2,188	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	78,910	85,550	24,570	15,000	2,114	2,292	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	85,300	92,490	27,110	15,000	2,239	2,427	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	53,380	57,880	11,290	10,160	1,910	2,071	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	56,570	61,330	12,050	10,850	2,014	2,184	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	60,620	65,730	12,810	11,530	2,115	2,293	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	64,630	70,070	13,790	12,410	2,241	2,430	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	69,460	75,310	14,980	13,480	2,389	2,590	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	74,210	80,460	16,070	14,460	2,518	2,730	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	82,260	89,190	18,130	15,000	2,748	2,979	124.95	2.97	79.97	1.90
1.750	0.204	1.342	3.38	94,130	102,050	21,060	15,000	3,045	3,301	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	102,020	110,610	23,230	15,000	3,243	3,516	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	106,640	115,620	24,540	15,000	3,354	3,636	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	111,920	121,340	26,060	15,000	3,476	3,768	124.95	2.97	63.75	1.52
2.000	0.109	1.782	2.21	61,520	66,700	9,880	8,890	2,552	2,767	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	65,220	70,720	10,550	9,500	2,695	2,922	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	69,950	75,840	11,210	10,090	2,835	3,073	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	74,630	80,910	12,070	10,860	3,009	3,263	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	80,280	87,040	13,110	11,800	3,216	3,486	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	85,850	93,080	14,060	12,650	3,396	3,682	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	95,320	103,340	15,870	14,280	3,723	4,036	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	102,640	111,280	17,100	15,000	3,933	4,265	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	109,350	118,560	18,430	15,000	4,149	4,499	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	118,730	128,730	20,330	15,000	4,439	4,813	163.20	3.89	98.27	2.34
2.000	0.236	1.528	4.46	124,250	134,710	21,470	15,000	4,603	4,990	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	130,570	141,570	22,800	15,000	4,784	5,187	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	142,010	153,970	25,270	15,000	5,095	5,525	163.20	3.89	85.55	2.04

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Outside Diameter D (in)	Wall Thickness t (in)	Inside Diameter d (in)	Nominal Weight w (lb/ft)	Yield Load Ly (lb) tnom	Tensile Load Lt (lb) tnom	Yield Pressure Yp (psi)	Hydrotest Pressure Hp (psi)	Yield (ft.lbf) tmin	Ultimate (ft.lbf) tmin	Gallons	Barrels	Gallons	Barrels
2.375	0.125	2.125	3.01	83,940	91,010	9,440	8,500	4,112	4,459	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	89,620	97,170	10,160	9,140	4,375	4,744	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	96,500	104,630	11,040	9,940	4,688	5,082	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	103,310	112,010	11,840	10,660	4,963	5,381	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	114,900	124,580	13,360	12,020	5,465	5,925	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	123,900	134,340	14,400	12,960	5,793	6,281	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	132,180	143,310	15,520	13,970	6,132	6,648	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	143,800	155,910	17,120	15,000	6,592	7,147	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	150,660	163,350	18,080	15,000	6,855	7,432	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	158,550	171,900	19,200	15,000	7,150	7,752	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	172,900	187,460	21,280	15,000	7,663	8,308	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	99,620	108,010	9,190	8,270	5,428	5,885	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	107,320	116,360	9,990	8,990	5,824	6,314	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	114,950	124,630	10,710	9,640	6,174	6,694	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	127,960	138,740	12,090	10,880	6,814	7,388	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	138,080	149,710	13,030	11,730	7,235	7,844	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	147,400	159,810	14,040	12,640	7,671	8,317	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	160,510	174,030	15,490	13,940	8,267	8,964	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	168,270	182,440	16,360	14,720	8,610	9,335	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	177,210	192,130	17,370	15,000	8,995	9,753	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	193,490	209,790	19,250	15,000	9,672	10,486	281.14	6.69	175.33	4.17
2.875	0.145	2.585	4.24	118,140	128,090	9,120	8,210	7,084	7,680	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	126,590	137,250	9,780	8,800	7,517	8,150	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	141,020	152,890	11,040	9,940	8,313	9,013	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	152,260	165,080	11,900	10,710	8,837	9,582	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	162,620	176,320	12,820	11,540	9,384	10,175	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	177,230	192,150	14,140	12,730	10,134	10,988	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	185,880	201,530	14,940	13,450	10,567	11,457	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	195,860	212,350	15,860	14,270	11,056	11,987	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	214,090	232,120	17,580	15,000	11,919	12,923	337.24	8.03	220.17	5.24