

DURACOIL 140

Coiled Tubing Technical Data

TOLERANCES

Outside Diameter (inch): Nominal O.D. ±0.010

Wall Thickness (inch):	0.109 to 0.116	(-0.005, +0.010)
	0.125 to 0.145	(-0.007, +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) 105,000 psi

Max Hardness 26 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	Gallons2	Barrels3
1.250	0.109	1.032	1.33	54,700	57,830	23,300	15,000	1,336	1,412	63.75	1.52	43.45	1.03
1.250	0.116	1.018	1.41	57,860	61,160	24,860	15,000	1,401	1,482	63.75	1.52	42.28	1.01
1.250	0.125	1.000	1.51	61,850	65,380	26,430	15,000	1,465	1,548	63.75	1.52	40.80	0.97
1.250	0.134	0.982	1.60	65,770	69,530	28,450	15,000	1,542	1,630	63.75	1.52	39.34	0.94
1.250	0.145	0.960	1.72	70,470	74,500	30,910	15,000	1,631	1,724	63.75	1.52	37.60	0.90
1.250	0.156	0.938	1.83	75,060	79,350	33,380	15,000	1,714	1,812	63.75	1.52	35.90	0.85
1.250	0.175	0.900	2.01	82,740	87,470	37,630	15,000	1,845	1,950	63.75	1.52	33.05	0.79
1.250	0.190	0.870	2.16	88,580	93,640	40,320	15,000	1,919	2,029	63.75	1.52	30.88	0.74
1.250	0.204	0.842	2.28	93,850	99,210	43,460	15,000	1,999	2,113	63.75	1.52	28.93	0.69
1.500	0.109	1.282	1.62	66,690	70,500	19,410	15,000	2,007	2,121	91.80	2.19	67.06	1.60
1.500	0.116	1.268	1.72	70,610	74,650	20,720	15,000	2,111	2,232	91.80	2.19	65.60	1.56
1.500	0.125	1.250	1.84	75,590	79,910	22,030	15,000	2,213	2,339	91.80	2.19	63.75	1.52
1.500	0.134	1.232	1.96	80,510	85,110	23,710	15,000	2,338	2,472	91.80	2.19	61.93	1.47
1.500	0.145	1.210	2.10	86,410	91,350	25,760	15,000	2,485	2,626	91.80	2.19	59.74	1.42
1.500	0.156	1.188	2.24	92,220	97,480	27,810	15,000	2,623	2,773	91.80	2.19	57.58	1.37
1.500	0.175	1.150	2.48	101,980	107,810	31,360	15,000	2,845	3,007	91.80	2.19	53.96	1.28
1.500	0.190	1.120	2.66	109,470	115,730	33,600	15,000	2,974	3,144	91.80	2.19	51.18	1.22
1.500	0.204	1.092	2.83	116,280	122,930	36,210	15,000	3,115	3,293	91.80	2.19	48.65	1.16
1.500	0.224	1.052	3.06	125,710	132,900	39,950	15,000	3,299	3,488	91.80	2.19	45.15	1.08
1.750	0.109	1.532	1.91	78,670	83,170	16,640	14,980	2,815	2,976	124.95	2.97	95.76	2.28
1.750	0.116	1.518	2.03	83,370	88,130	17,760	15,000	2,968	3,138	124.95	2.97	94.02	2.24
1.750	0.125	1.500	2.17	89,340	94,440	18,880	15,000	3,117	3,295	124.95	2.97	91.80	2.19
1.750	0.134	1.482	2.32	95,240	100,680	20,320	15,000	3,303	3,491	124.95	2.97	89.61	2.13
1.750	0.145	1.460	2.49	102,360	108,210	22,080	15,000	3,520	3,722	124.95	2.97	86.97	2.07
1.750	0.156	1.438	2.66	109,370	115,620	23,840	15,000	3,729	3,942	124.95	2.97	84.37	2.01
1.750	0.175	1.400	2.95	121,230	128,150	26,880	15,000	4,067	4,299	124.95	2.97	79.97	1.90
1.750	0.204	1.342	3.38	138,710	146,640	31,040	15,000	4,487	4,744	124.95	2.97	73.48	1.75
1.750	0.224	1.302	3.66	150,340	158,930	34,240	15,000	4,780	5,053	124.95	2.97	69.16	1.65
1.750	0.236	1.278	3.83	157,150	166,130	36,160	15,000	4,943	5,225	124.95	2.97	66.64	1.59
1.750	0.250	1.250	4.01	164,930	174,360	38,400	15,000	5,122	5,415	124.95	2.97	63.75	1.52
2.000	0.109	1.782	2.21	90,660	95,840	14,560	13,100	3,761	3,976	163.20	3.89	129.56	3.08
2.000	0.116	1.768	2.34	96,120	101,610	15,540	13,990	3,972	4,199	163.20	3.89	127.53	3.04
2.000	0.125	1.750	2.51	103,080	108,970	16,520	14,870	4,177	4,416	163.20	3.89	124.95	2.97
2.000	0.134	1.732	2.68	109,980	116,260	17,780	15,000	4,435	4,688	163.20	3.89	122.39	2.91
2.000	0.145	1.710	2.88	118,300	125,060	19,320	15,000	4,739	5,009	163.20	3.89	119.30	2.84
2.000	0.156	1.688	3.08	126,520	133,750	20,860	15,000	5,031	5,319	163.20	3.89	116.25	2.77
2.000	0.175	1.650	3.42	140,470	148,500	23,520	15,000	5,510	5,825	163.20	3.89	111.08	2.64
2.000	0.190	1.620	3.68	151,260	159,900	25,200	15,000	5,797	6,128	163.20	3.89	107.08	2.55
2.000	0.204	1.592	3.92	161,140	170,350	27,160	15,000	6,115	6,464	163.20	3.89	103.41	2.46
2.000	0.224	1.552	4.26	174,970	184,970	29,960	15,000	6,542	6,916	163.20	3.89	98.27	2.34

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	Gallons2	Barrels3
2.000	0.236	1.528	4.46	183,100	193,560	31,640	15,000	6,783	7,171	163.20	3.89	95.26	2.27
2.000	0.250	1.500	4.68	192,420	203,420	33,600	15,000	7,050	7,453	163.20	3.89	91.80	2.19
2.000	0.276	1.448	5.09	209,280	221,240	37,240	15,000	7,509	7,938	163.20	3.89	85.55	2.04
2.375	0.125	2.125	3.01	123,700	130,770	13,910	12,520	6,060	6,406	230.14	5.48	184.24	4.39
2.375	0.134	2.107	3.21	132,080	139,620	14,970	13,470	6,448	6,816	230.14	5.48	181.13	4.31
2.375	0.145	2.085	3.46	142,220	150,340	16,270	14,640	6,908	7,303	230.14	5.48	177.37	4.22
2.375	0.156	2.063	3.71	152,250	160,950	17,570	15,000	7,354	7,774	230.14	5.48	173.64	4.13
2.375	0.175	2.025	4.12	169,330	179,010	19,810	15,000	8,092	8,554	230.14	5.48	167.30	3.98
2.375	0.190	1.995	4.44	182,590	193,030	21,220	15,000	8,537	9,025	230.14	5.48	162.38	3.87
2.375	0.204	1.967	4.74	194,790	205,920	22,870	15,000	9,037	9,553	230.14	5.48	157.86	3.76
2.375	0.224	1.927	5.16	211,920	224,030	25,230	15,000	9,715	10,270	230.14	5.48	151.50	3.61
2.375	0.236	1.903	5.40	222,020	234,710	26,640	15,000	10,102	10,679	230.14	5.48	147.75	3.52
2.375	0.250	1.875	5.69	233,660	247,010	28,290	15,000	10,536	11,138	230.14	5.48	143.44	3.42
2.375	0.276	1.823	6.20	254,800	269,360	31,360	15,000	11,292	11,938	230.14	5.48	135.59	3.23
2.625	0.134	2.357	3.57	146,810	155,200	13,550	12,200	7,999	8,457	281.14	6.69	226.66	5.40
2.625	0.145	2.335	3.85	158,160	167,200	14,720	13,250	8,582	9,073	281.14	6.69	222.45	5.30
2.625	0.156	2.313	4.12	169,400	179,080	15,890	14,300	9,149	9,672	281.14	6.69	218.28	5.20
2.625	0.175	2.275	4.59	188,570	199,350	17,920	15,000	10,090	10,667	281.14	6.69	211.16	5.03
2.625	0.190	2.245	4.95	203,480	215,110	19,200	15,000	10,661	11,271	281.14	6.69	205.63	4.90
2.625	0.204	2.217	5.29	217,220	229,630	20,690	15,000	11,305	11,951	281.14	6.69	200.53	4.77
2.625	0.224	2.177	5.76	236,550	250,060	22,830	15,000	12,183	12,880	281.14	6.69	193.36	4.60
2.625	0.236	2.153	6.04	247,970	262,140	24,110	15,000	12,688	13,413	281.14	6.69	189.12	4.50
2.625	0.250	2.125	6.36	261,150	276,070	25,600	15,000	13,256	14,013	281.14	6.69	184.24	4.39
2.625	0.276	2.073	6.94	285,150	301,440	28,370	15,000	14,253	15,068	281.14	6.69	175.33	4.17
2.875	0.145	2.585	4.24	174,100	184,050	13,440	12,100	10,439	11,035	337.24	8.03	272.63	6.49
2.875	0.156	2.563	4.54	186,560	197,220	14,510	13,060	11,141	11,777	337.24	8.03	268.01	6.38
2.875	0.175	2.525	5.06	207,820	219,690	16,360	14,720	12,311	13,014	337.24	8.03	260.12	6.19
2.875	0.190	2.495	5.46	224,380	237,200	17,530	15,000	13,024	13,768	337.24	8.03	253.98	6.05
2.875	0.204	2.467	5.83	239,650	253,350	18,890	15,000	13,830	14,620	337.24	8.03	248.31	5.91
2.875	0.224	2.427	6.36	261,180	276,100	20,840	15,000	14,935	15,788	337.24	8.03	240.32	5.72
2.875	0.236	2.403	6.67	273,920	289,580	22,010	15,000	15,572	16,462	337.24	8.03	235.60	5.61
2.875	0.250	2.375	7.03	288,630	305,130	23,370	15,000	16,293	17,224	337.24	8.03	230.14	5.48
2.875	0.276	2.323	7.68	315,500	333,520	25,910	15,000	17,565	18,569	337.24	8.03	220.17	5.24