GLOBAL® TUBING

DURACOIL 110

Coiled Tubing Technical Data

METRIC UNITS

TOLERANCES

Outside Diameter (mm): Nominal O.D. ±0.25

Wall Thickness (mm):

Up to 2.21	(-0.10, +0.25)
2.41 to 2.95	(-0.13, +0.25)
3.18 to 3.68	(-0.18, +0.31)
3.96 to 4.45	(-0.20, +0.31)
4.83 to 7.01	(-0.25, +0.31)
7.62	(-0.31, +0.38)
8.56	(-0.38, +0.38)

MECHANICAL PROPERTIES

Specified Min Yield Strength (SMYS) 758 N/mm^2

Specified Min Tensile Strength (SMTS) 814 N/mm^2

Max Hardness 33 HRC

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

501 COUNTY RD 493
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DURACOIL

DURACOIL 110 Coiled Tubing Technical Data – METRIC UNITS

Specified Dimensions						Axial Load Capacity		Pressure Capacity		Torsional Strength		Capacity	
Outside Diameter D (mm)	Outside Diameter D (in)	Wall Thickness t (mm)	Wall Thickness t (in)	Inside Diameter d (mm)	Nominal Weight w (kg/m)	Yield Load Ly (kN) tnom	Tensile Load Lt (kN) tnom	Yield Pressure Yp (MPa)	Hydrotest Pressure Hp (MPa)	Yield (N.m) tmin	Ultimate (N.m) tmin	External Displacement L/m	Internal Capacity L/m
38.10	1.500	2.21	0.087	33.68	1.96	188.96	202.71	83.91	75.52	1,780	1,910	1.140	0.891
38.10	1.500	2.41	0.095	33.27	2.12	205.20	220.10	91.01	81.91	1,900	2,040	1.140	0.870
38.10	1.500	2.59	0.102	32.92	2.27	219.21	235.13	98.11	88.30	2,020	2,170	1.140	0.851
38.10	1.500	2.77	0.109	32.56	2.41	233.09	250.03	105.15	94.63	2,140	2,290	1.140	0.833
38.10	1.500	2.95	0.116	32.21	2.55	246.79	264.76	112.25	101.02	2,250	2,410	1.140	0.815
38.10	1.500	3.18	0.125	31.75	2.73	264.22	283.44	119.35	107.41	2,360	2,530	1.140	0.792
38.10	1.500	3.40	0.134	31.29	2.91	281.39	301.86	128.45	115.60	2,490	2,670	1.140	0.769
38.10	1.500	3.68	0.145	30.73	3.13	302.03	324.01	139.55	125.59	2,650	2,840	1.140	0.742
38.10	1.500	3.96	0.156	30.18	3.34	322.27	345.72	149.69	134.72	2,780	2,980	1.140	0.715
38.10	1.500	4.45	0.175	29.21	3.69	356.44	382.37	168.85	151.97	3,020	3,240	1.140	0.670
38.10	1.500	4.83	0.190	28.45	3.96	382.59	410.44	182.02	163.82	3,170	3,400	1.140	0.636
38.10	1.500	5.18	0.204	27.74	4.21	406.39	435.97	196.16	176.54	3,320	3,560	1.140	0.604
38.10	1.500	5.69	0.224	26.72	4.55	439.35	471.33	216.43	194.78	3,510	3,770	1.140	0.561
44.45	1.750	2.77	0.109	38.91	2.85	274.94	294.96	90.11	81.10	3,000	3,220	1.552	1.189
44.45	1.750	2.95	0.116	38.56	3.02	291.36	312.58	96.18	86.56	3,160	3,390	1.552	1.168
44.45	1.750	3.18	0.125	38.10	3.23	312.27	334.95	102.25	92.02	3,320	3,560	1.552	1.140
44.45	1.750	3.40	0.134	37.64	3.45	332.86	357.06	110.11	99.10	3,520	3,770	1.552	1.113
44.45	1.750	3.68	0.145	37.08	3.70	357.73	383.75	119.62	107.66	3,750	4,020	1.552	1.080
44.45	1.750	3.96	0.156	36.53	3.96	382.24	410.04	128.31	115.48	3,950	4,240	1.552	1.048
44.45	1.750	4.45	0.175	35.56	4.39	423.69	454.52	144.72	130.25	4,310	4,630	1.552	0.993
44.45	1.750	4.83	0.190	34.80	4.72	455.63	488.77	156.03	140.43	4,550	4,880	1.552	0.951
44.45	1.750	5.18	0.204	34.09	5.02	484.81	520.09	168.16	151.35	4,780	5,130	1.552	0.913
44.45	1.750	5.69	0.224	33.07	5.44	525.47	563.68	185.47	166.92	5,090	5,460	1.552	0.859
44.45	1.750	5.99	0.236	32.46	5.68	549.27	589.21	195.88	176.29	5,270	5,650	1.552	0.828
50.80	2.000	2.77	0.109	45.26	3.28	316.85	339.89	78.88	70.99	4,010	4,300	2.027	1.609
50.80	2.000	2.95	0.116	44.91	3.48	335.93	360.39	84.19	75.77	4,230	4,540	2.027	1.584
50.80	2.000	3.18	0.125	44.45	3.73	360.26	386.46	89.49	80.54	4,450	4,770	2.027	1.552
50.80	2.000	3.40	0.134	43.99	3.98	384.37	412.31	96.32	86.69	4,720	5,070	2.027	1.520
50.80	2.000	3.68	0.145	43.43	4.28	413.46	443.53	104.66	94.20	5,050	5,420	2.027	1.482
50.80	2.000	3.96	0.156	42.88	4.58	442.20	474.36	112.25	101.02	5,330	5,720	2.027	1.444

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Specified Dimensions						Axial Load Capacity		Pressure Capacity		Torsional Strength		Capacity	
Outside Diameter D (mm)	Outside Diameter D (in)	Wall Thickness t (mm)	Wall Thickness t (in)	Inside Diameter d (mm)	Nominal Weight w (kg/m)	Yield Load Ly (kN) tnom	Tensile Load Lt (kN) tnom	Yield Pressure Yp (MPa)	Hydrotest Pressure Hp (MPa)	Yield (N.m) tmin	Ultimate (N.m) tmin	External Displacement L/m	Internal Capacity L/m
50.80	2.000	4.45	0.175	41.91	5.08	490.95	526.67	126.66	113.99	5,840	6,270	2.027	1.380
50.80	2.000	4.83	0.190	41.15	5.47	528.63	567.10	136.52	122.86	6,170	6,620	2.027	1.330
50.80	2.000	5.18	0.204	40.44	5.83	563.19	604.16	147.13	132.42	6,510	6,990	2.027	1.284
50.80	2.000	5.69	0.224	39.42	6.33	611.54	656.02	162.30	146.07	6,970	7,480	2.027	1.221
50.80	2.000	5.99	0.236	38.81	6.62	639.92	686.49	171.40	154.26	7,230	7,750	2.027	1.183
50.80	2.000	6.35	0.250	38.10	6.96	672.53	721.46	182.02	163.82	7,510	8,060	2.027	1.140
60.33	2.375	3.18	0.125	53.98	4.47	432.32	463.77	75.36	67.82	6,460	6,930	2.858	2.288
60.33	2.375	3.40	0.134	53.52	4.78	461.59	495.18	81.08	72.97	6,870	7,370	2.858	2.250
60.33	2.375	3.68	0.145	52.96	5.14	497.04	533.21	88.12	79.30	7,360	7,890	2.858	2.203
60.33	2.375	3.96	0.156	52.40	5.51	532.14	570.84	94.53	85.07	7,790	8,360	2.858	2.157
60.33	2.375	4.45	0.175	51.44	6.13	591.84	634.85	106.66	96.00	8,580	9,200	2.858	2.078
60.33	2.375	4.83	0.190	50.67	6.61	638.19	684.58	114.94	103.44	9,090	9,760	2.858	2.017
60.33	2.375	5.18	0.204	49.96	7.05	680.80	730.31	123.90	111.51	9,630	10,330	2.858	1.960
60.33	2.375	5.69	0.224	48.95	7.67	740.67	794.54	136.65	122.99	10,350	11,100	2.858	1.882
60.33	2.375	5.99	0.236	48.34	8.03	775.99	832.44	144.31	129.88	10,760	11,540	2.858	1.835
60.33	2.375	6.35	0.250	47.63	8.45	816.65	876.03	153.27	137.94	11,220	12,040	2.858	1.781
60.33	2.375	7.01	0.276	46.30	9.22	890.53	955.30	169.89	152.90	12,030	12,900	2.858	1.684
66.68	2.625	3.40	0.134	59.87	5.31	513.10	550.42	73.36	66.02	8,520	9,140	3.492	2.815
66.68	2.625	3.68	0.145	59.31	5.72	552.78	592.99	79.77	71.80	9,140	9,810	3.492	2.763
66.68	2.625	3.96	0.156	58.75	6.13	592.06	635.12	85.50	76.95	9,690	10,400	3.492	2.711
66.68	2.625	4.45	0.175	57.79	6.82	659.09	707.00	96.53	86.87	10,700	11,480	3.492	2.623
66.68	2.625	4.83	0.190	57.02	7.36	711.18	762.91	104.04	93.64	11,360	12,180	3.492	2.554
66.68	2.625	5.18	0.204	56.31	7.86	759.18	814.42	112.11	100.90	12,040	12,920	3.492	2.491
66.68	2.625	5.69	0.224	55.30	8.56	826.75	886.89	123.69	111.32	12,980	13,920	3.492	2.401
66.68	2.625	5.99	0.236	54.69	8.97	866.69	929.72	130.59	117.53	13,520	14,500	3.492	2.349
66.68	2.625	6.35	0.250	53.98	9.45	912.73	979.10	138.65	124.79	14,120	15,150	3.492	2.288
66.68	2.625	7.01	0.276	52.65	10.32	996.62	1,069.09	153.68	138.32	15,180	16,290	3.492	2.177
66.68	2.625	7.62	0.300	51.44	11.10	1,072.20	1,150.18	166.44	149.80	16,020	17,190	3.492	2.078
73.03	2.875	3.68	0.145	65.66	6.30	608.52	652.78	72.81	65.53	11,120	11,930	4.188	3.386
73.03	2.875	3.96	0.156	65.10	6.75	652.02	699.44	78.12	70.31	11,800	12,660	4.188	3.329
73.03	2.875	4.45	0.175	64.14	7.52	726.31	779.15	88.12	79.30	13,050	14,000	4.188	3.231

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Outside Diameter D (mm)	*Outside Diameter D (in)*	*Wall Thickness t (mm)*	*Wall Thickness t (in)*	*Inside Diameter d (mm)*	*Nominal Weight w (kg/m)*	*Yield Load Ly (kN) tnom*	*Tensile Load Lt (kN) tnom*	*Yield Pressure Yp (MPa)*	*Hydrotest Pressure Hp (MPa)*	*Yield (N.m) tmin*	*Ultimate (N.m) tmin*	*External Displacement L/m*	*Internal Capacity L/m*
73.03	2.875	4.83	0.190	63.37	8.12	784.22	841.25	94.94	85.45	13,870	14,880	4.188	3.154
73.03	2.875	5.18	0.204	62.66	8.67	837.60	898.50	102.39	92.15	14,730	15,800	4.188	3.084
73.03	2.875	5.69	0.224	61.65	9.45	912.82	979.23	112.94	101.64	15,910	17,070	4.188	2.985
73.03	2.875	5.99	0.236	61.04	9.91	957.39	1,027.01	119.21	107.29	16,590	17,800	4.188	2.926
73.03	2.875	6.35	0.250	60.32	10.44	1,008.77	1,082.16	126.66	113.99	17,360	18,620	4.188	2.858
73.03	2.875	7.01	0.276	59.00	11.41	1,102.67	1,182.87	140.31	126.28	18,710	20,070	4.188	2.734
73.03	2.875	7.62	0.300	57.79	12.29	1,187.50	1,273.84	151.96	136.76	19,790	21,230	4.188	2.623

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