

Coiled Tubing TP316L UNS S31603

Designation		Wall Thickness		Mass per Unit Length	Calculated Inside Diameter	Tubing Area (Sq.in)		Tube Load Body		Internal Pressure (psi)		Collapse Strength	Internal Capacity per 1000ft		Torsional Yield	
		Specified	Min			W/min.	Internal min.	Yield min	Tensile min	Hydro Test 90%	Internal Yield min.					
		OD	WT	inch	inch	lb/ft	inch	inch ²	inch ²	lb	lb	psig	psig	psig	gal	bar
3/4	0.750	0.080	0.080	0.076	0.59	0.590	0.161	0.281	6,700	11,800	7,000	7,800	7,200	14.19	0.34	95
	0.750	0.083	0.083	0.079	0.61	0.584	0.167	0.275	7,000	12,200	7,400	8,200	7,500	13.91	0.33	98
	0.750	0.087	0.087	0.083	0.63	0.576	0.174	0.268	7,200	12,700	7,700	8,600	7,800	13.53	0.32	101
	0.750	0.095	0.095	0.090	0.68	0.560	0.187	0.255	7,800	13,700	8,400	9,300	8,500	12.79	0.30	106
	0.750	0.102	0.102	0.097	0.72	0.546	0.199	0.243	8,300	14,500	9,100	10,100	9,100	12.16	0.29	111
1	1.000	0.075	0.075	0.071	0.76	0.850	0.207	0.578	8,700	15,300	5,000	5,600	5,300	29.46	0.70	173
	1.000	0.080	0.080	0.076	0.81	0.840	0.221	0.565	9,200	16,200	5,300	5,900	5,500	28.77	0.69	182
	1.000	0.083	0.083	0.079	0.83	0.834	0.229	0.557	9,600	16,700	5,600	6,200	5,800	28.36	0.68	188
	1.000	0.087	0.087	0.083	0.87	0.826	0.239	0.546	10,000	17,500	5,900	6,500	6,100	27.82	0.66	195
	1.000	0.095	0.095	0.090	0.94	0.810	0.257	0.528	10,800	18,900	6,400	7,100	6,600	26.75	0.64	207
	1.000	0.102	0.102	0.097	1.00	0.796	0.275	0.510	11,500	20,100	6,900	7,700	7,100	25.83	0.62	218
	1.000	0.109	0.109	0.104	1.06	0.782	0.293	0.493	12,200	21,400	7,200	8,000	7,400	24.93	0.59	229
	1.000	0.118	0.118	0.113	1.14	0.764	0.315	0.471	13,100	22,900	7,700	8,600	7,800	23.80	0.57	242
	1.000	0.125	0.125	0.118	1.19	0.750	0.327	0.458	13,700	24,100	8,200	9,100	8,300	22.93	0.55	249
	1.000	0.134	0.134	0.127	1.27	0.732	0.348	0.437	14,600	25,500	8,700	9,700	8,800	21.85	0.52	261
1-1/4	1.250	0.080	0.080	0.076	1.02	1.090	0.280	0.947	11,800	20,600	4,200	4,700	4,400	48.44	1.15	299
	1.250	0.087	0.087	0.083	1.10	1.076	0.304	0.923	12,700	22,300	4,700	5,200	4,900	47.21	1.12	321
	1.250	0.095	0.095	0.090	1.20	1.060	0.328	0.899	13,800	24,100	5,100	5,700	5,400	45.81	1.09	342
	1.250	0.102	0.102	0.097	1.28	1.046	0.351	0.876	14,700	25,800	5,600	6,200	5,800	44.61	1.06	362
	1.250	0.109	0.109	0.104	1.36	1.032	0.374	0.853	15,600	27,400	5,800	6,400	6,000	43.42	1.03	382
	1.250	0.118	0.118	0.113	1.46	1.014	0.404	0.824	16,800	29,400	6,200	6,900	6,400	41.92	1.00	406
	1.250	0.125	0.125	0.118	1.53	1.000	0.420	0.808	17,700	30,900	6,700	7,400	6,800	40.77	0.97	418
	1.250	0.134	0.134	0.127	1.63	0.982	0.448	0.779	18,800	32,900	7,100	7,900	7,300	39.32	0.94	441
	1.250	0.145	0.145	0.138	1.75	0.960	0.482	0.745	20,100	35,200	7,700	8,600	7,800	37.58	0.90	466
	1.250	0.156	0.156	0.148	1.86	0.938	0.512	0.715	21,400	37,500	8,300	9,200	8,400	35.87	0.85	488

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		Specified	Min			W/min.	Internal min.	Yield min	Tensile min	Hydro Test 90%	Internal Yield min.					
		OD	WT	inch	inch	lb/ft	inch	inch ²	inch ²	lb	lb	psig	psig	psig	gal	bar
1-1/2	1.500	0.109	0.109	0.104	1.65	1.282	0.456	1.311	19,100	33,300	4,900	5,400	5,100	67.01	1.60	573
	1.500	0.118	0.118	0.113	1.78	1.264	0.492	1.275	20,500	35,900	5,200	5,800	5,500	65.14	1.55	612
	1.500	0.125	0.125	0.118	1.87	1.250	0.512	1.255	21,600	37,800	5,600	6,200	5,800	63.71	1.52	632
	1.500	0.134	0.134	0.127	1.99	1.232	0.548	1.219	23,000	40,300	5,900	6,600	6,200	61.89	1.47	668
	1.500	0.145	0.145	0.138	2.14	1.210	0.590	1.177	24,700	43,200	6,500	7,200	6,700	59.70	1.42	710
	1.500	0.156	0.156	0.148	2.28	1.188	0.629	1.139	26,300	46,100	7,000	7,800	7,200	57.55	1.37	746
	1.500	0.175	0.175	0.167	2.53	1.150	0.699	1.068	29,100	51,000	7,700	8,600	7,800	53.92	1.28	810
	1.500	0.188	0.188	0.180	2.69	1.124	0.746	1.021	31,000	54,200	8,200	9,100	8,300	51.51	1.23	850
1-3/4	1.750	0.095	0.095	0.090	1.71	1.560	0.469	1.936	19,800	34,600	3,700	4,100	3,500	99.23	2.36	713
	1.750	0.102	0.102	0.097	1.83	1.546	0.504	1.902	21,100	37,000	4,100	4,500	4,000	97.45	2.32	759
	1.750	0.109	0.109	0.104	1.95	1.532	0.538	1.867	22,500	39,300	4,100	4,600	4,300	95.70	2.28	804
	1.750	0.118	0.118	0.113	2.10	1.514	0.581	1.824	24,200	42,300	4,500	5,000	4,700	93.46	2.23	860
	1.750	0.125	0.125	0.118	2.21	1.500	0.605	1.800	25,500	44,700	4,800	5,300	5,000	91.74	2.19	891
	1.750	0.134	0.134	0.127	2.36	1.482	0.648	1.758	27,200	47,600	5,100	5,700	5,300	89.55	2.13	944
	1.750	0.145	0.145	0.138	2.53	1.460	0.699	1.706	29,200	51,200	5,600	6,200	5,800	86.91	2.07	1006
	1.750	0.156	0.156	0.148	2.71	1.438	0.745	1.660	31,200	54,700	6,000	6,700	6,200	84.31	2.01	1060
	1.750	0.175	0.175	0.167	3.00	1.400	0.831	1.575	34,600	60,600	6,700	7,400	6,800	79.92	1.90	1157
	1.750	0.188	0.188	0.180	3.20	1.374	0.888	1.517	36,900	64,600	7,100	7,900	7,300	76.97	1.83	1219
	1.750	0.204	0.204	0.194	3.43	1.342	0.948	1.457	39,600	69,400	7,700	8,600	7,800	73.43	1.75	1282
2	2.000	0.109	0.109	0.104	2.25	1.782	0.619	2.522	25,900	45,300	3,700	4,100	3,400	129.48	3.08	1075
	2.000	0.118	0.118	0.113	2.42	1.764	0.670	2.472	27,900	48,800	4,000	4,400	3,900	126.87	3.02	1152
	2.000	0.125	0.125	0.118	2.55	1.750	0.698	2.444	29,500	51,500	4,200	4,700	4,400	124.87	2.97	1193
	2.000	0.134	0.134	0.127	2.72	1.732	0.747	2.394	31,400	55,000	4,500	5,000	4,700	122.31	2.91	1267
	2.000	0.145	0.145	0.138	2.93	1.710	0.807	2.334	33,800	59,200	5,000	5,500	5,100	119.23	2.84	1354
	2.000	0.156	0.156	0.148	3.13	1.688	0.861	2.280	36,100	63,300	5,300	5,900	5,500	116.18	2.77	1430

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		Specified	Min			W/min.	Internal min.	Yield min	Tensile min	Hydro Test 90%	Internal Yield min.					
		OD	WT	inch	inch	lb/ft	inch	inch ²	inch ²	lb	lb	psig	psig	psig	gal	bar
2	2.000	0.175	0.175	0.167	3.48	1.650	0.962	2.180	40,100	70,200	5,900	6,500	6,100	111.01	2.64	1567
	2.000	0.188	0.188	0.180	3.71	1.624	1.029	2.112	42,800	74,900	6,300	7,000	6,500	107.53	2.56	1656
	2.000	0.204	0.204	0.194	3.99	1.592	1.101	2.041	46,000	80,600	6,800	7,500	7,000	103.34	2.46	1747
2-3/8	2.375	0.125	0.125	0.118	3.06	2.125	0.837	3.593	35,300	61,900	3,600	4,000	3,300	184.12	4.39	1731
	2.375	0.134	0.134	0.127	3.27	2.107	0.897	3.533	37,700	66,000	3,800	4,200	3,700	181.01	4.31	1842
	2.375	0.145	0.145	0.138	3.52	2.085	0.970	3.460	40,600	71,100	4,100	4,600	4,200	177.25	4.22	1974
	2.375	0.156	0.156	0.148	3.77	2.063	1.035	3.395	43,500	76,100	4,500	5,000	4,700	173.53	4.13	2090
	2.375	0.175	0.175	0.167	4.19	2.025	1.158	3.272	48,400	84,700	5,000	5,500	5,200	167.20	3.98	2301
	2.375	0.188	0.188	0.180	4.47	1.999	1.241	3.189	51,700	90,400	5,300	5,900	5,500	162.93	3.88	2439
	2.375	0.204	0.204	0.194	4.82	1.967	1.329	3.101	55,700	97,400	5,800	6,400	6,000	157.76	3.76	2582

Chemistry Composition

C,% 0.035 max Mn,% 2.00 max P,% 0.045 max S,% 0.030 max Si,% 1.00 max
Cr,% 16.0-18.0 Ni,% 10.0-14.0 Mo,% 2.00-3.00

Mechanical Properties

Tensile Strength: 70,000psi (483MPa) min

Yield Strength: 40,000psi (276MPa) min

Hardness: 192HBW, 200HV or 90HRB max

Tensile strength & yield strength minimum are calculated on specified wall.

Other dimensions are available on request.

HAITONG TUBING

The other coiled tubing supplier