ATP-130 Coiled Tubing

ATP-130 is a thermally processed grade of coiled tubing with a uniform microstructure throughout the tubing that yields improved bias weld performance with respect to low-cycle fatigue accumulation and localized corrosion. ATP-130 can be ordered as either TRUE-TAPER™ or TRUE-TAPER XR, straight wall, or as a string with an electric wireline or capillary tube installed.

Mechanical properties

Minimum yield strength psi (MPa)	Minimum tensile strength psi (MPa)	Maximum hardness
130,000 (896)	135,000 (931)	37 HRC

Techincal data

Specified

Outside diameter, D		Wall thickness, t		Calculated inside diameter, d		Plain end mass, M_{pe}		Pipe metal cross sectional area, A		Pipe body yield load, L_y		Tensile load, L_T		Internal yield pressure, P_r		Hydro test pressure, P_T		Torsional yield strength, T_f	
in.	mm	in.	mm	in.	mm	lb/ft	kg/m	$in.^2$	mm^2	lb	kg	lb	kg	psi	MPa	psi	MPa	ft-lb	N-m
1¾	44.5	0.134	3.4	1.482	37.64	2.314	3.444	0.680	439	88,430	40,100	91,830	41,640	19,160	132.1	15,000	103.4	3,190	4,320
1¾	44.5	0.145	3.7	1.460	37.08	2.487	3.701	0.731	472	95,040	43,100	98,690	44,750	20,800	143.4	15,000	103.4	3,390	4,590
1¾	44.5	0.156	4.0	1.438	36.53	2.658	3.955	0.781	504	101,550	46,050	105,450	47,820	22,430	154.6	15,000	103.4	3,580	4,850
1¾	44.5	0.175	4.4	1.400	35.56	2.946	4.384	0.866	559	112,560	51,040	116,890	53,010	25,250	174.0	15,000	103.4	3,880	5,250
1¾	44.5	0.188	4.8	1.374	34.90	3.138	4.670	0.923	595	119,920	54,380	124,540	56,480	27,180	187.3	15,000	103.4	4,080	5,520
1¾	44.5	0.203	5.2	1.344	34.14	3.356	4.995	0.987	636	128,250	58,160	133,180	60,390	29,410	202.7	15,000	103.4	4,290	5,810
1¾	44.5	0.224	5.7	1.302	33.07	3.653	5.437	1.074	693	139,590	63,300	144,960	65,740	32,530	224.2	15,000	103.4	4,560	6,170
2	50.8	0.134	3.4	1.732	43.99	2.672	3.977	0.786	507	102,110	46,300	106,040	48,090	16,770	115.6	13,400	92.3	4,290	5,810
2	50.8	0.145	3.7	1.710	43.43	2.875	4.278	0.845	545	109,840	49,810	114,070	51,730	18,200	125.4	14,500	99.9	4,570	6,190
2	50.8	0.156	4.0	1.688	42.88	3.074	4.575	0.904	583	117,480	53,270	121,990	55,320	19,630	135.3	15,000	103.4	4,830	6,540
2	50.8	0.175	4.4	1.650	41.91	3.413	5.080	1.003	647	130,430	59,150	135,440	61,420	22,100	152.3	15,000	103.4	5,270	7,140
2	50.8	0.188	4.8	1.624	41.25	3.641	5.418	1.070	690	139,120	63,090	144,470	65,510	23,790	164.0	15,000	103.4	5,550	7,520
2	50.8	0.203	5.2	1.594	40.49	3.899	5.802	1.146	739	148,970	67,550	154,700	70,150	25,740	177.4	15,000	103.4	5,860	7,940
2	50.8	0.224	5.7	1.552	39.42	4.252	6.327	1.250	806	162,460	73,670	168,710	76,510	28,470	196.2	15,000	103.4	6,260	8,480
2	50.8	0.236	6.0	1.528	38.81	4.449	6.621	1.308	844	170,010	77,090	176,550	80,060	30,030	207.0	15,000	103.4	6,470	8,760
2	50.8	0.250	6.4	1.500	38.10	4.676	6.958	1.374	887	178,670	81,020	185,540	84,140	31,850	219.5	15,000	103.4	6,710	9,090
2⅜	60.3	0.134	3.4	2.107	53.52	3.209	4.776	0.943	609	122,630	55,610	127,350	57,750	14,120	97.3	11,200	77.2	6,260	8,480
2⅜	60.3	0.145	3.7	2.085	52.96	3.456	5.143	1.016	655	132,050	59,880	137,130	62,190	15,320	105.6	12,200	84.1	6,670	9,030
2⅜	60.3	0.156	4.0	2.063	52.40	3.700	5.506	1.087	702	141,370	64,110	146,800	66,570	16,530	113.9	13,200	91.0	7,080	9,590
2⅜	60.3	0.175	4.4	2.025	51.44	4.115	6.123	1.209	780	157,230	71,300	163,270	74,040	18,610	128.3	14,800	102.0	7,750	10,500
2⅜	60.3	0.188	4.8	1.999	50.77	4.394	6.539	1.292	833	167,910	76,140	174,370	79,070	20,030	138.1	15,000	103.4	8,190	11,090
2⅜	60.3	0.203	5.2	1.969	50.01	4.712	7.013	1.385	894	180,060	81,650	186,990	84,800	21,670	149.4	15,000	103.4	8,670	11,740
2⅜	60.3	0.224	5.7	1.927	48.95	5.149	7.663	1.514	977	196,770	89,230	204,340	92,670	23,970	165.2	15,000	103.4	9,320	12,620
2⅜	60.3	0.236	6.0	1.903	48.34	5.395	8.029	1.586	1,023	206,150	93,480	214,080	97,080	25,280	174.2	15,000	103.4	9,670	13,100
2⅜	60.3	0.250	6.4	1.875	47.63	5.678	8.449	1.669	1,077	216,950	98,380	225,300	102,170	26,820	184.9	15,000	103.4	10,060	13,630
2⅜	60.3	0.276	7.0	1.823	46.30	6.191	9.214	1.820	1,174	236,590	107,290	245,690	111,420	29,660	204.4	15,000	103.4	10,740	14,550
2⅜	60.3	0.281	7.1	1.813	46.05	6.289	9.358	1.849	1,193	240,300	108,970	249,540	113,170	30,210	208.2	15,000	103.4	10,860	14,710
2⅝	66.7	0.156	4.0	2.313	58.75	4.116	6.126	1.210	781	157,290	71,330	163,340	74,070	14,950	103.0	11,900	82.0	8,820	11,950
2⅝	66.7	0.175	4.4	2.275	57.79	4.582	6.819	1.347	869	175,090	79,400	181,830	82,460	16,830	116.0	13,400	92.3	9,680	13,110
2⅝	66.7	0.188	4.8	2.249	57.12	4.896	7.287	1.439	929	187,100	84,840	194,300	88,110	18,120	124.9	14,400	99.2	10,240	13,870
2⅝	66.7	0.203	5.2	2.219	56.36	5.255	7.820	1.545	996	200,790	91,050	208,510	94,560	19,610	135.2	15,000	103.4	10,870	14,720
2⅝	66.7	0.224	5.7	2.177	55.30	5.748	8.554	1.690	1,090	219,640	99,600	228,090	103,440	21,690	149.5	15,000	103.4	11,700	15,850
2⅝	66.7	0.236	6.0	2.153	54.69	6.026	8.967	1.771	1,143	230,250	104,410	239,110	108,430	22,880	157.7	15,000	103.4	12,160	16,470
2⅝	66.7	0.250	6.4	2.125	53.98	6.346	9.443	1.865	1,203	242,480	109,960	251,810	114,190	24,260	167.2	15,000	103.4	12,670	17,160
2⅝	66.7	0.276	7.0	2.073	52.65	6.929	10.311	2.037	1,314	264,770	120,070	274,950	124,690	26,840	185.0	15,000	103.4	13,570	18,380
2⅝	66.7	0.281	7.1	2.063	52.40	7.039	10.476	2.069	1,335	268,990	121,980	279,340	126,680	27,330	188.4	15,000	103.4	13,730	18,600
2⅝	66.7	0.300	7.6	2.025	51.44	7.454	11.093	2.191	1,414	284,850	129,170	295,810	134,150	29,210	201.3	15,000	103.4	14,340	19,430

A Minimum wall thickness is 0.005 in. (0.13 mm) less than specified wall thickness.

B Pressures calculated based on t – 0.005 in. (0.13 mm).

C Maximum hydrostatic test pressure is 15,000 psi (103 MPa).

D Additional diameters and wall thicknesses may be available upon request.

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