

# ATP-110 Coiled Tubing

ATP-110 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-110 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	Minimum tensile strength	Maximum hardness
psi (MPa)	psi (MPa)	
110,000 (758)	116,000 (799)	30 HRC

## Technical data

**Specified**

	Outside diameter, D		Wall thickness, t		Calculated inside diameter, d		Plain end mass, M <sub>pe</sub>		Pipe metal cross sectional area, A		Pipe body yield load, L <sub>y</sub>		Tensile load, L <sub>t</sub>		Internal yield pressure, P <sub>i</sub>		Hydro test pressure, P <sub>t</sub>		Torsional yield strength, T <sub>t</sub>	
	in.	mm	in.	mm	in.	mm	lb/ft	kg/m	in. <sup>2</sup>	mm <sup>2</sup>	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	74,830	33,930	78,910	35,780	16,210	111.7	12,900	88.9	2,700	3,650	
1¾	44.5	0.145	3.7	1.460	37.08	2.487	3.701	0.731	472	80,420	36,470	84,800	38,450	17,600	121.3	14,000	96.5	2,870	3,880	
1¾	44.5	0.156	4.0	1.438	36.53	2.658	3.955	0.781	504	85,920	38,960	90,610	41,090	18,980	130.8	15,000	103.4	3,020	4,090	
1¾	44.5	0.175	4.4	1.400	35.56	2.946	4.384	0.866	559	95,240	43,190	100,440	45,550	21,370	147.3	15,000	103.4	3,280	4,440	
1¾	44.5	0.188	4.8	1.374	34.90	3.138	4.670	0.923	595	101,470	46,010	107,010	48,530	23,000	158.5	15,000	103.4	3,450	4,670	
1¾	44.5	0.203	5.2	1.344	34.14	3.356	4.995	0.987	636	108,520	49,210	114,440	51,900	24,890	171.6	15,000	103.4	3,630	4,910	
1¾	44.5	0.224	5.7	1.302	33.07	3.653	5.437	1.074	693	118,120	53,560	124,560	56,480	27,530	189.8	15,000	103.4	3,860	5,230	
2	50.8	0.134	3.4	1.732	43.99	2.672	3.977	0.786	507	86,400	39,180	91,110	41,310	14,190	97.8	11,300	77.9	3,630	4,910	
2	50.8	0.145	3.7	1.710	43.43	2.875	4.278	0.845	545	92,940	42,140	98,010	44,440	15,400	106.1	12,300	84.8	3,870	5,240	
2	50.8	0.156	4.0	1.688	42.88	3.074	4.575	0.904	583	99,400	45,070	104,820	47,530	16,610	114.5	13,200	91.0	4,090	5,540	
2	50.8	0.175	4.4	1.650	41.91	3.413	5.080	1.003	647	110,360	50,040	116,380	52,780	18,700	128.9	14,900	102.7	4,460	6,040	
2	50.8	0.188	4.8	1.624	41.25	3.641	5.418	1.070	690	117,710	53,380	124,130	56,290	20,130	138.7	15,000	103.4	4,690	6,350	
2	50.8	0.203	5.2	1.594	40.49	3.899	5.802	1.146	739	126,050	57,160	132,930	60,280	21,780	150.1	15,000	103.4	4,950	6,700	
2	50.8	0.224	5.7	1.552	39.42	4.252	6.327	1.250	806	137,470	62,340	144,970	65,740	24,090	166.0	15,000	103.4	5,290	7,160	
2	50.8	0.236	6.0	1.528	38.81	4.449	6.621	1.308	844	143,860	65,240	151,700	68,790	25,410	175.1	15,000	103.4	5,480	7,420	
2	50.8	0.250	6.4	1.500	38.10	4.676	6.958	1.374	887	151,180	68,560	159,430	72,300	26,950	185.8	15,000	103.4	5,680	7,690	
2¾	60.3	0.134	3.4	2.107	53.52	3.209	4.776	0.943	609	103,770	47,050	109,430	49,620	11,940	82.3	9,500	65.5	5,290	7,160	
2¾	60.3	0.145	3.7	2.085	52.96	3.456	5.143	1.016	655	111,730	50,660	117,830	53,430	12,960	89.3	10,300	71.0	5,650	7,650	
2¾	60.3	0.156	4.0	2.063	52.40	3.700	5.506	1.087	702	119,620	54,240	126,140	57,200	13,980	96.3	11,100	76.5	5,990	8,110	
2¾	60.3	0.175	4.4	2.025	51.44	4.115	6.123	1.209	780	133,040	60,330	140,290	63,620	15,740	108.5	12,500	86.1	6,560	8,880	
2¾	60.3	0.188	4.8	1.999	50.77	4.394	6.539	1.292	833	142,080	64,430	149,830	67,950	16,950	116.8	13,500	93.0	6,930	9,390	
2¾	60.3	0.203	5.2	1.969	50.01	4.712	7.013	1.385	894	152,360	69,090	160,670	72,860	18,340	126.4	14,600	100.6	7,340	9,940	
2¾	60.3	0.224	5.7	1.927	48.95	5.149	7.663	1.514	977	166,500	75,500	175,580	79,620	20,280	139.8	15,000	103.4	7,880	10,670	
2¾	60.3	0.236	6.0	1.903	48.34	5.395	8.029	1.586	1,023	174,440	79,100	183,950	83,420	21,390	147.4	15,000	103.4	8,180	11,080	
2¾	60.3	0.250	6.4	1.875	47.63	5.678	8.449	1.669	1,077	183,580	83,250	193,590	87,790	22,690	156.4	15,000	103.4	8,510	11,530	
2¾	60.3	0.276	7.0	1.823	46.30	6.191	9.214	1.820	1,174	200,190	90,780	211,110	95,740	25,100	173.0	15,000	103.4	9,080	12,300	
2¾	60.3	0.281	7.1	1.813	46.05	6.289	9.358	1.849	1,193	203,330	92,210	214,420	97,240	25,560	176.2	15,000	103.4	9,190	12,450	
2¾	66.7	0.156	4.0	2.313	58.75	4.116	6.126	1.210	781	133,090	60,350	140,350	63,650	12,650	87.2	10,100	69.6	7,460	10,100	
2¾	66.7	0.175	4.4	2.275	57.79	4.582	6.819	1.347	869	148,160	67,190	156,240	70,850	14,240	98.1	11,300	77.9	8,190	11,090	
2¾	66.7	0.188	4.8	2.249	57.12	4.896	7.287	1.439	929	158,320	71,790	166,950	75,710	15,330	105.6	12,200	84.1	8,660	11,730	
2¾	66.7	0.203	5.2	2.219	56.36	5.255	7.820	1.545	996	169,900	77,040	179,160	81,250	16,590	114.3	13,200	91.0	9,190	12,450	
2¾	66.7	0.224	5.7	2.177	55.30	5.748	8.554	1.690	1,090	185,850	84,280	195,990	88,880	18,350	126.5	14,600	100.6	9,900	13,410	
2¾	66.7	0.236	6.0	2.153	54.69	6.026	8.967	1.771	1,143	194,830	88,350	205,450	93,170	19,360	133.4	15,000	103.4	10,280	13,920	
2¾	66.7	0.250	6.4	2.125	53.98	6.346	9.443	1.865	1,203	205,170	93,040	216,370	98,120	20,530	141.5	15,000	103.4	10,720	14,520	
2¾	66.7	0.276	7.0	2.073	52.65	6.929	10.311	2.037	1,314	224,030	101,590	236,250	107,140	22,710	156.5	15,000	103.4	11,480	15,550	
2¾	66.7	0.281	7.1	2.063	52.40	7.039	10.476	2.069	1,335	227,610	103,220	240,020	108,850	23,130	159.4	15,000	103.4	11,620	15,740	
2¾	66.7	0.300	7.6	2.025	51.44	7.454	11.093	2.191	1,414	241,030	109,300	254,170	115,260	24,720	170.4	15,000	103.4	12,130	16,430	

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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