

ATP-140 Coiled Tubing

ATP-140 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-140 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)	
140,000 (965)	145,000 (999)	39 HRC

Technical 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 _i		Hydro test pressure, P _T		Torsional yield strength, T _t	
	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	95,230	43,180	98,630	44,730	20,640	142.3	15,000	103.4	3,440	4,660	
1¾	44.5	0.145	3.7	1.460	37.08	2.487	3.701	0.731	472	102,350	46,410	106,010	48,070	22,400	154.4	15,000	103.4	3,650	4,940	
1¾	44.5	0.156	4.0	1.438	36.53	2.658	3.955	0.781	504	109,360	49,590	113,270	51,360	24,160	166.5	15,000	103.4	3,850	5,210	
1¾	44.5	0.175	4.4	1.400	35.56	2.946	4.384	0.866	559	121,220	54,970	125,550	56,930	27,200	187.5	15,000	103.4	4,180	5,660	
1¾	44.5	0.188	4.8	1.374	34.90	3.138	4.670	0.923	595	129,150	58,560	133,760	60,660	29,280	201.8	15,000	103.4	4,390	5,940	
1¾	44.5	0.203	5.2	1.344	34.14	3.356	4.995	0.987	636	138,110	62,630	143,050	64,870	31,680	218.4	15,000	103.4	4,620	6,260	
1¾	44.5	0.224	5.7	1.302	33.07	3.653	5.437	1.074	693	150,330	68,170	155,700	70,610	35,040	241.5	15,000	103.4	4,910	6,650	
2	50.8	0.134	3.4	1.732	43.99	2.672	3.977	0.786	507	129,150	58,560	133,760	60,660	29,280	201.8	15,000	103.4	4,390	5,940	
2	50.8	0.145	3.7	1.710	43.43	2.875	4.278	0.845	545	118,290	53,640	122,520	55,560	19,600	135.1	15,000	103.4	4,920	6,660	
2	50.8	0.156	4.0	1.688	42.88	3.074	4.575	0.904	583	126,510	57,370	131,030	59,420	21,140	145.7	15,000	103.4	5,210	7,050	
2	50.8	0.175	4.4	1.650	41.91	3.413	5.080	1.003	647	140,460	63,690	145,480	65,970	23,800	164.0	15,000	103.4	5,670	7,680	
2	50.8	0.188	4.8	1.624	41.25	3.641	5.418	1.070	690	149,820	67,940	155,170	70,370	25,620	176.6	15,000	103.4	5,980	8,100	
2	50.8	0.203	5.2	1.594	40.49	3.899	5.802	1.146	739	160,430	72,750	166,160	75,350	27,720	191.1	15,000	103.4	6,310	8,550	
2	50.8	0.224	5.7	1.552	39.42	4.252	6.327	1.250	806	174,960	79,340	181,210	82,180	30,660	211.3	15,000	103.4	6,740	9,130	
2	50.8	0.236	6.0	1.528	38.81	4.449	6.621	1.308	844	183,090	83,030	189,630	86,000	32,340	222.9	15,000	103.4	6,970	9,440	
2	50.8	0.250	6.4	1.500	38.10	4.676	6.958	1.374	887	192,410	87,250	199,280	90,370	34,300	236.4	15,000	103.4	7,230	9,790	
2¾	60.3	0.134	3.4	2.107	53.52	3.209	4.776	0.943	609	132,070	59,890	136,780	62,030	15,200	104.8	12,100	83.4	6,740	9,130	
2¾	60.3	0.145	3.7	2.085	52.96	3.456	5.143	1.016	655	142,210	64,490	147,290	66,790	16,500	113.7	13,200	91	7,190	9,740	
2¾	60.3	0.156	4.0	2.063	52.40	3.700	5.506	1.087	702	152,240	69,040	157,680	71,510	17,800	122.7	14,200	97.9	7,630	10,330	
2¾	60.3	0.175	4.4	2.025	51.44	4.115	6.123	1.209	780	169,320	76,780	175,370	79,530	20,040	138.1	15,000	103.4	8,350	11,310	
2¾	60.3	0.188	4.8	1.999	50.77	4.394	6.539	1.292	833	180,830	82,000	187,280	84,930	21,570	148.7	15,000	103.4	8,820	11,950	
2¾	60.3	0.203	5.2	1.969	50.01	4.712	7.013	1.385	894	193,910	87,930	200,840	91,080	23,340	160.9	15,000	103.4	9,340	12,650	
2¾	60.3	0.224	5.7	1.927	48.95	5.149	7.663	1.514	977	211,910	96,100	219,470	99,530	25,810	177.9	15,000	103.4	10,030	13,590	
2¾	60.3	0.236	6.0	1.903	48.34	5.395	8.029	1.586	1,023	222,010	100,680	229,940	104,280	27,230	187.7	15,000	103.4	10,410	14,100	
2¾	60.3	0.250	6.4	1.875	47.63	5.678	8.449	1.669	1,077	233,640	105,950	241,990	109,740	28,880	199.1	15,000	103.4	10,830	14,670	
2¾	60.3	0.276	7.0	1.823	46.30	6.191	9.214	1.820	1,174	254,790	115,540	263,890	119,670	31,940	220.2	15,000	103.4	11,560	15,660	
2¾	60.3	0.281	7.1	1.813	46.05	6.289	9.358	1.849	1,193	258,790	117,360	268,030	121,550	32,530	224.2	15,000	103.4	11,700	15,850	
2¾	66.7	0.156	4.0	2.313	58.75	4.116	6.126	1.210	781	169,390	76,810	175,440	79,560	16,100	111.0	12,800	88.2	9,500	12,870	
2¾	66.7	0.175	4.4	2.275	57.79	4.582	6.819	1.347	869	188,560	85,510	195,300	88,570	18,130	125.0	14,500	99.9	10,420	14,110	
2¾	66.7	0.188	4.8	2.249	57.12	4.896	7.287	1.439	929	201,500	91,380	208,690	94,640	19,520	134.5	15,000	103.4	11,030	14,940	
2¾	66.7	0.203	5.2	2.219	56.36	5.255	7.820	1.545	996	216,230	98,060	223,960	101,560	21,120	145.6	15,000	103.4	11,700	15,850	
2¾	66.7	0.224	5.7	2.177	55.30	5.748	8.554	1.690	1,090	236,540	107,270	244,980	111,100	23,360	161.0	15,000	103.4	12,600	17,070	
2¾	66.7	0.236	6.0	2.153	54.69	6.026	8.967	1.771	1,143	247,960	112,440	256,820	116,470	24,640	169.8	15,000	103.4	13,090	17,730	
2¾	66.7	0.250	6.4	2.125	53.98	6.346	9.443	1.865	1,203	261,130	118,420	270,460	122,650	26,130	180.1	15,000	103.4	13,640	18,480	
2¾	66.7	0.276	7.0	2.073	52.65	6.929	10,311	2,037	1,314	285,130	129,300	295,320	133,930	28,900	199.2	15,000	103.4	14,610	19,790	
2¾	66.7	0.281	7.1	2.063	52.40	7.039	10,476	2,069	1,335	289,680	131,360	300,030	136,060	29,440	202.9	15,000	103.4	14,790	20,040	
2¾	66.7	0.300	7.6	2.025	51.44	7,454	11,093	2,191	1,414	306,760	139,110	317,720	144,090	31,460	216.9	15,000	103.4	15,440	20,920	

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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