JASON O&G EQUIPMENT LLC.

COILED TUBING

PRODUCT PROFILE
INDEX-2015.06

SAFETY ALWAYS FIRST

JASON highlights the importance of health, safety and environment. We ensure that we take all necessary actions to prevent personal injury, property damage, and protect everyone from foreseeable work hazards. Our goal is to achieve employee ownership and participation in the HSE continual improvement process.

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Tel: 281 587 0799 www. jasonoandg.com

CORPORATE PROFILE

JASON O&G Equipment LLC. (JASON) is headquartered in Houston, Texas, USA. The company manufactures coiled tubing (CT) as used in the energy extraction business. To deliver maximum value to our customers, we offer continuously-milled coiled tubing in a full range of grades and sizes for oil and gas industry. Also, JASON continuously invests for product innovation and committees to maintain a profitable and progressive organization.

QUALITY

JASON establishes its quality management system strictly in accordance with API Q1 and set the quality control procedures as per API 5st. The state-of-the-art equipment with the best performance better supports the product quality. Besides, JASON has its professional technical team with more than thirty years rich experiences in this field.

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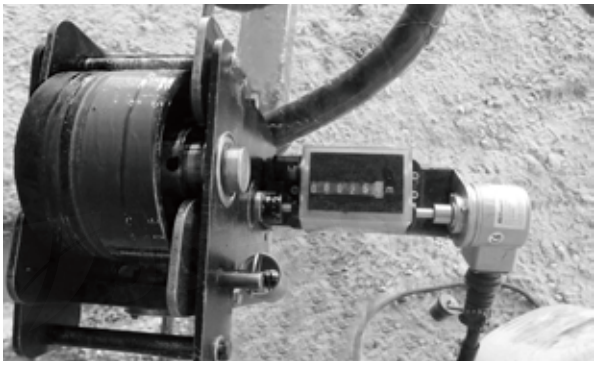
APPLICATION

Applications for high pressure, extra-deep and high corrosion had seen the successful performance of JASON Coiled tubing. JASON Coiled Tubing now has been sold to Middle East, Europe and China and will reach your needs without limitation.

SERVICE

WE COULD PROVIDE:

- WIRE INJECTION SERVICE(IN&OUT)
- FLASH-FREE COILED TUBING
- NDT OF USED CT
- REPAIR OF USED CT



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TECHNICAL DATA

Material Specifications

Chemical Requirements(mass percent)

GRADE	CARBON	MANGANESE	PHOSPHORUS	SULFUR	SILICON
	MAX	MAX	MAX	MAX	MAX
TS-70 (CT70)	0.16	1.20	0.025	0.005	0.50
TS-80(CT80)	0.16	1.20	0.020	0.005	0.50
TS-90 (CT90)	0.16	1.20	0.020	0.005	0.50
TS-100 (CT100)	0.16	1.65	0.025	0.005	0.50
TS-110 (CT110)	0.16	1.65	0.025	0.005	0.50

Tensile Requirements

GRADE	YIELD STRENGTH		YIELD STRENGTH		TENSILE STRENGTH		HARDNESS MAXIMUM
	MIN		MAX		MIN		BODY AND WELD
	Psi	Mpa	Psi	Mpa	Psi	Mpa	HRC
TS-70 (CT70)	70000	483	80000	552	80000	552	22
TS-80(CT80)	80000	551	90000	620	88000	607	22
TS-90 (CT90)	90000	620	100000	689	97000	669	22
TS-100 (CT100)	100000	689			108000	745	28
TS-110 (CT110)	110000	758			115000	793	30

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Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
1.250	0.080	0.075	1.090	20,570	23,510	8,400	7,600	1.00
	0.087	0.082	1.076	22,240	25,420	9,200	8,300	1.08
	0.095	0.090	1.060	24,120	27,560	10,100	9,100	1.17
	0.102	0.097	1.046	25,740	29,410	10,900	9,800	1.25
	0.109	0.104	1.032	27,340	31,240	11,600	10,500	1.33
	0.118	0.110	1.014	29,360	33,550	12,300	11,100	1.43
	0.125	0.117	1.000	30,910	35,330	13,100	11,800	1.50
	0.134	0.126	0.982	32,870	37,570	14,100	12,700	1.60
	0.145	0.137	0.960	35,220	40,250	15,300	13,800	1.71
	0.156	0.148	0.938	37,510	42,870	16,600	14,900	1.82
	0.175	0.167	0.900	41,350	47,260	18,700	15,000	2.01
1.500	0.087	0.082	1.326	27,020	30,880	7,700	6,900	1.31
	0.095	0.090	1.310	29,340	33,530	8,400	7,600	1.43
	0.102	0.097	1.296	31,340	35,820	9,100	8,200	1.52
	0.109	0.104	1.282	33,330	38,090	9,700	8,700	1.62
	0.118	0.110	1.264	35,840	40,960	10,300	9,200	1.74
	0.125	0.117	1.250	37,780	43,180	10,900	9,800	1.84
	0.134	0.126	1.232	40,230	45,980	11,800	10,600	1.96
	0.145	0.137	1.210	43,190	49,350	12,800	11,500	2.10
	0.156	0.148	1.188	46,080	52,670	13,800	12,400	2.24
	0.175	0.167	1.150	50,970	58,250	15,600	14,000	2.48
	0.188	0.180	1.124	54,210	61,960	16,800	15,000	2.64
	0.204	0.196	1.092	58,110	66,410	18,300	15,000	2.83
1.750	0.095	0.090	1.560	34,560	39,490	7,200	6,500	1.68
	0.102	0.097	1.546	36,950	42,230	7,800	7,000	1.80
	0.109	0.104	1.532	39,320	44,930	8,300	7,500	1.91
	0.118	0.110	1.514	42,330	48,380	8,800	7,900	2.06
	0.125	0.117	1.500	44,650	51,030	9,400	8,500	2.17
	0.134	0.126	1.482	47,600	54,400	10,100	9,100	2.31
	0.145	0.137	1.460	51,150	58,460	11,000	9,900	2.49
	0.156	0.148	1.438	54,660	62,460	11,800	10,700	2.66
	0.175	0.167	1.400	60,580	69,240	13,400	12,000	2.95
	0.188	0.180	1.374	64,550	73,770	14,400	13,000	3.14
	0.204	0.196	1.342	69,320	79,220	15,700	14,100	3.37
	0.224	0.216	1.302	75,130	85,870	17,300	15,000	3.65
	0.250	0.242	1.250	82,430	94,200	19,400	15,000	4.01
2.000	0.109	0.104	1.782	45,300	51,780	7,300	6,600	2.20
	0.118	0.110	1.764	48,810	55,790	7,700	6,900	2.37
	0.125	0.117	1.750	51,520	58,880	8,200	7,400	2.51
	0.134	0.126	1.732	54,960	62,810	8,800	7,900	2.67
	0.145	0.137	1.710	59,120	67,570	9,600	8,700	2.88
	0.156	0.148	1.688	63,230	72,260	10,400	9,300	3.08
	0.175	0.167	1.650	70,200	80,230	11,700	10,500	3.41
	0.188	0.176	1.624	74,880	85,570	12,300	11,100	3.64
	0.204	0.192	1.592	80,530	92,040	13,400	12,100	3.92
	0.224	0.212	1.552	87,440	99,930	14,800	13,400	4.25
	0.250	0.238	1.500	96,160	109,900	16,700	15,000	4.68

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Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
2.000	0.276	0.261	1.448	104,590	119,530	18,300	15,000	5.09
	0.281	0.266	1.438	106,170	121,340	18,600	15,000	5.16
2.375	0.109	0.104	2.157	54,290	62,040	6,100	5,500	2.64
	0.118	0.110	2.139	58,540	66,900	6,500	5,800	2.85
	0.125	0.117	2.125	61,820	70,650	7,000	6,300	3.01
	0.134	0.126	2.107	66,000	75,430	7,500	6,800	3.21
	0.145	0.137	2.085	71,070	81,230	8,100	7,300	3.46
	0.156	0.148	2.063	76,090	86,960	8,700	7,900	3.70
	0.175	0.167	2.025	84,620	96,710	9,800	8,900	4.12
	0.188	0.176	1.999	90,370	103,280	10,400	9,400	4.40
	0.204	0.192	1.967	97,350	111,250	11,300	10,200	4.73
	0.224	0.212	1.927	105,900	121,030	12,500	11,200	5.15
	0.250	0.238	1.875	116,770	133,450	14,000	12,600	5.68
	0.276	0.261	1.823	127,340	145,530	15,400	13,800	6.19
	0.281	0.266	1.813	129,330	147,810	15,700	14,100	6.29
	0.300	0.285	1.775	136,830	156,370	16,800	15,000	6.65
2.625	0.145	0.137	2.335	79,040	90,330	7,400	6,700	3.84
	0.156	0.148	2.313	84,660	96,750	7,900	7,100	4.12
	0.175	0.167	2.275	94,240	107,700	8,900	8,000	4.58
	0.188	0.176	2.249	100,700	115,090	9,500	8,400	4.90
	0.204	0.192	2.217	108,560	124,060	10,200	9,200	5.28
	0.224	0.212	2.177	118,210	135,100	11,300	10,200	5.75
	0.250	0.238	2.125	130,510	149,150	12,700	11,400	6.35
	0.276	0.261	2.073	142,500	162,860	13,900	12,500	6.93
	0.281	0.266	2.063	144,770	165,460	14,200	12,800	7.04
	0.300	0.285	2.025	153,310	175,210	15,200	13,700	7.46
2.875	0.134	0.126	2.607	80,730	92,260	6,100	5,500	3.93
	0.145	0.137	2.585	87,010	99,440	6,700	6,000	4.23
	0.156	0.148	2.563	93,230	106,550	7,300	6,600	4.53
	0.175	0.167	2.525	103,860	118,690	8,200	7,400	5.05
	0.188	0.176	2.499	111,030	126,900	8,700	7,800	5.40
	0.204	0.192	2.467	119,770	136,870	9,300	8,400	5.82
	0.224	0.212	2.427	130,520	149,170	10,300	9,300	6.35
	0.250	0.238	2.375	144,240	164,850	11,600	10,400	7.02
	0.276	0.261	2.323	157,670	180,190	12,700	11,400	7.67
	0.281	0.266	2.313	160,220	183,100	13,000	11,700	7.79
	0.300	0.285	2.275	169,800	194,050	13,900	12,500	8.26
3.500	0.156	0.148	3.188	114,660	131,040	5,900	5,300	5.58
	0.175	0.167	3.150	127,900	146,170	6,700	6,000	6.22
	0.188	0.176	3.124	136,860	156,410	7,000	6,300	6.66
	0.204	0.192	3.092	147,790	168,900	7,700	6,900	7.19
	0.224	0.212	3.052	161,290	184,340	8,500	7,700	7.84
	0.250	0.238	3.000	178,590	204,100	9,500	8,600	8.69
	0.276	0.261	2.948	195,580	223,520	10,500	9,500	9.51
	0.281	0.266	2.938	198,820	227,220	10,600	9,600	9.67
	0.300	0.285	2.900	211,010	241,150	11,400	10,300	10.26

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	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
1.250	0.080	0.075	1.090	23,510	25,860	9,600	8,700	1.00
	0.087	0.082	1.076	25,420	27,960	10,500	9,500	1.08
	0.095	0.090	1.060	27,560	30,320	11,500	10,400	1.17
	0.102	0.097	1.046	29,410	32,360	12,400	11,200	1.25
	0.109	0.104	1.032	31,240	34,370	13,300	12,000	1.33
	0.118	0.110	1.014	33,550	36,910	14,100	12,700	1.43
	0.125	0.117	1.000	35,330	38,860	15,000	13,500	1.50
	0.134	0.126	0.982	37,570	41,320	16,100	14,500	1.60
	0.145	0.137	0.960	40,250	44,270	17,500	15,000	1.71
	0.156	0.148	0.938	42,870	47,160	18,900	15,000	1.82
	0.175	0.167	0.900	47,260	51,980	21,400	15,000	2.01
1.500	0.087	0.082	1.326	30,880	33,970	8,800	7,900	1.31
	0.095	0.090	1.310	33,530	36,880	9,600	8,700	1.43
	0.102	0.097	1.296	35,820	39,400	10,300	9,300	1.52
	0.109	0.104	1.282	38,090	41,890	11,200	10,000	1.62
	0.118	0.110	1.264	40,960	45,060	11,700	10,600	1.74
	0.125	0.117	1.250	43,180	47,490	12,500	11,200	1.84
	0.134	0.126	1.232	45,980	50,580	13,400	12,100	1.96
	0.145	0.137	1.210	49,350	54,290	14,600	13,200	2.10
	0.156	0.148	1.188	52,670	57,930	15,800	14,200	2.24
	0.175	0.167	1.150	58,250	64,070	17,800	15,000	2.48
	0.188	0.180	1.124	61,960	68,160	19,200	15,000	2.64
	0.204	0.196	1.092	66,410	73,050	20,900	15,000	2.83
1.750	0.095	0.090	1.560	39,490	43,440	8,300	7,500	1.68
	0.102	0.097	1.546	42,230	46,450	8,900	8,000	1.80
	0.109	0.104	1.532	44,930	49,420	9,500	8,600	1.91
	0.118	0.110	1.514	48,380	53,210	10,100	9,100	2.06
	0.125	0.117	1.500	51,030	56,130	10,700	9,600	2.17
	0.134	0.126	1.482	54,400	59,830	11,500	10,400	2.31
	0.145	0.137	1.460	58,460	64,310	12,500	11,300	2.49
	0.156	0.148	1.438	62,460	68,710	13,500	12,200	2.66
	0.175	0.167	1.400	69,240	76,160	15,300	13,700	2.95
	0.188	0.180	1.374	73,770	81,140	16,500	14,800	3.14
	0.204	0.196	1.342	79,220	87,150	17,900	15,000	3.37
	0.224	0.216	1.302	85,870	94,450	19,700	15,000	3.65
	0.250	0.242	1.250	94,200	103,620	22,100	15,000	4.01
2.000	0.109	0.104	1.782	51,780	56,950	8,400	7,600	2.20
	0.118	0.110	1.764	55,790	61,360	8,800	7,900	2.37
	0.125	0.117	1.750	58,880	64,760	9,400	8,500	2.51
	0.134	0.126	1.732	62,810	69,090	10,100	9,100	2.67
	0.145	0.137	1.710	67,570	74,320	11,000	9,900	2.88
	0.156	0.148	1.688	72,260	79,490	11,800	10,700	3.08
	0.175	0.167	1.650	80,230	88,250	13,400	12,000	3.41
	0.188	0.176	1.624	85,570	94,130	14,100	12,700	3.64
	0.204	0.192	1.592	92,040	101,240	15,400	13,800	3.92
	0.224	0.212	1.552	99,930	109,930	17,000	15,000	4.25

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	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
2.000	0.250	0.238	1.500	109,900	120,890	19,000	15,000	4.68
	0.276	0.261	1.448	119,530	131,480	20,900	15,000	5.09
	0.281	0.266	1.438	121,340	133,470	21,300	15,000	5.16
2.375	0.109	0.104	2.157	62,040	68,250	7,000	6,300	2.64
	0.118	0.110	2.139	66,900	73,590	7,400	6,700	2.85
	0.125	0.117	2.125	70,650	77,710	7,900	7,100	3.01
	0.134	0.126	2.107	75,430	82,980	8,500	7,700	3.21
	0.145	0.137	2.085	81,230	89,350	9,300	8,400	3.46
	0.156	0.148	2.063	86,960	95,650	10,000	9,000	3.70
	0.175	0.167	2.025	96,710	106,380	11,300	10,100	4.12
	0.188	0.176	1.999	103,280	113,610	11,900	10,700	4.40
	0.204	0.192	1.967	111,250	122,380	12,900	11,600	4.73
	0.224	0.212	1.927	121,030	133,140	14,300	12,900	5.15
	0.250	0.238	1.875	133,450	146,790	16,000	14,400	5.68
	0.276	0.261	1.823	145,530	160,080	17,600	15,000	6.19
	0.281	0.266	1.813	147,810	162,590	17,900	15,000	6.29
	0.300	0.285	1.775	156,370	172,010	19,200	15,000	6.65
2.625	0.145	0.137	2.335	90,330	99,360	8,400	7,600	3.84
	0.156	0.148	2.313	96,750	106,430	9,000	8,100	4.12
	0.175	0.167	2.275	107,700	118,470	10,200	9,200	4.58
	0.188	0.176	2.249	115,090	126,600	10,800	9,700	4.90
	0.204	0.192	2.217	124,060	136,470	11,700	10,500	5.28
	0.224	0.212	2.177	135,100	148,610	12,900	11,600	5.75
	0.250	0.238	2.125	149,150	164,060	14,500	13,100	6.35
	0.276	0.261	2.073	162,860	179,140	15,900	14,300	6.93
	0.281	0.266	2.063	165,460	182,000	16,200	14,600	7.04
	0.300	0.285	2.025	175,210	192,730	17,400	15,000	7.46
2.875	0.134	0.126	2.607	92,260	101,490	7,000	6,300	3.93
	0.145	0.137	2.585	99,440	109,380	7,700	6,900	4.23
	0.156	0.148	2.563	106,550	117,200	8,300	7,500	4.53
	0.175	0.167	2.525	118,690	130,560	9,300	8,400	5.05
	0.188	0.176	2.499	126,900	139,580	9,900	8,900	5.40
	0.204	0.192	2.467	136,870	150,560	10,700	9,600	5.82
	0.224	0.212	2.427	149,170	164,080	11,800	10,600	6.35
	0.250	0.238	2.375	164,850	181,330	13,200	11,900	7.02
	0.276	0.261	2.323	180,190	198,210	14,500	13,100	7.67
	0.281	0.266	2.313	183,100	201,410	14,800	13,300	7.79
	0.300	0.285	2.275	194,050	213,460	15,900	14,300	8.26
3.500	0.156	0.148	3.188	131,040	144,150	6,800	6,100	5.58
	0.175	0.167	3.150	146,170	160,780	7,700	6,900	6.22
	0.188	0.176	3.124	156,410	172,050	8,000	7,200	6.66
	0.204	0.192	3.092	168,900	185,790	8,800	7,900	7.19
	0.224	0.212	3.052	184,340	202,770	9,700	8,700	7.84
	0.250	0.238	3.000	204,100	224,510	10,900	9,800	8.69
	0.276	0.261	2.948	223,520	245,880	11,900	10,700	9.51
	0.281	0.266	2.938	227,220	249,940	12,200	10,900	9.67
	0.300	0.285	2.900	241,150	265,270	13,000	11,700	10.26

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	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
1.250	0.080	0.075	1.090	26,450	28,510	10,800	9,720	1.00
	0.087	0.082	1.076	28,590	30,820	11,800	10,600	1.08
	0.095	0.090	1.060	31,010	33,420	13,000	11,700	1.17
	0.102	0.097	1.046	33,090	35,670	14,000	12,600	1.25
	0.109	0.104	1.032	35,150	37,880	15,000	13,500	1.33
	0.118	0.110	1.014	37,750	40,680	15,800	14,300	1.43
	0.125	0.117	1.000	39,740	42,830	16,800	15,000	1.50
	0.134	0.126	0.982	42,260	45,550	18,100	15,000	1.60
	0.145	0.137	0.960	45,280	48,800	19,700	15,000	1.71
	0.156	0.148	0.938	48,230	51,980	21,300	15,000	1.82
	0.175	0.167	0.900	53,160	57,300	24,000	15,000	2.01
1.500	0.087	0.082	1.326	34,740	37,440	9,800	8,900	1.31
	0.095	0.090	1.310	37,720	40,650	10,800	9,700	1.43
	0.102	0.097	1.296	40,300	43,430	11,600	10,500	1.52
	0.109	0.104	1.282	42,850	46,180	12,500	11,200	1.62
	0.118	0.110	1.264	46,090	49,670	13,200	11,900	1.74
	0.125	0.117	1.250	48,570	52,350	14,000	12,600	1.84
	0.134	0.126	1.232	51,730	55,750	15,100	13,600	1.96
	0.145	0.137	1.210	55,520	59,840	16,400	14,800	2.10
	0.156	0.148	1.188	59,250	63,860	17,800	15,000	2.24
	0.175	0.167	1.150	65,530	70,620	20,000	15,000	2.48
	0.188	0.180	1.124	69,700	75,130	21,600	15,000	2.64
	0.204	0.196	1.092	74,710	80,530	23,500	15,000	2.83
1.750	0.095	0.090	1.560	44,430	47,890	9,300	8,400	1.68
	0.102	0.097	1.546	47,500	51,200	10,000	9,000	1.80
	0.109	0.104	1.532	50,550	54,480	10,700	9,600	1.91
	0.118	0.110	1.514	54,420	58,650	11,300	10,200	2.06
	0.125	0.117	1.500	57,400	61,870	12,000	10,800	2.17
	0.134	0.126	1.482	61,200	65,950	13,000	11,700	2.31
	0.145	0.137	1.460	65,770	70,880	14,100	12,700	2.49
	0.156	0.148	1.438	70,270	75,740	15,200	13,700	2.66
	0.175	0.167	1.400	77,890	83,950	17,200	15,000	2.95
	0.188	0.180	1.374	82,990	89,440	18,500	15,000	3.14
	0.204	0.196	1.342	89,130	96,060	20,200	15,000	3.37
	0.224	0.216	1.302	96,600	104,110	22,200	15,000	3.65
	0.250	0.242	1.250	105,980	114,220	24,900	15,000	4.01
2.000	0.109	0.104	1.782	58,250	62,780	9,400	8,500	2.20
	0.118	0.110	1.764	62,760	67,640	9,900	8,900	2.37
	0.125	0.117	1.750	66,230	71,390	10,500	9,500	2.51
	0.134	0.126	1.732	70,660	76,160	11,300	10,200	2.67
	0.145	0.137	1.710	76,010	81,920	12,300	11,100	2.88
	0.156	0.148	1.688	81,290	87,620	13,300	12,000	3.08
	0.175	0.167	1.650	90,260	97,280	15,000	13,500	3.41
	0.188	0.176	1.624	96,270	103,760	15,800	14,300	3.64
	0.204	0.192	1.592	103,540	111,590	17,300	15,000	3.92
	0.224	0.212	1.552	112,430	121,170	19,100	15,000	4.25
	0.250	0.238	1.500	123,640	133,250	21,400	15,000	4.68

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Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
2.000	0.276	0.261	1.448	134,470	144,930	23,500	15,000	5.09
	0.281	0.266	1.438	136,510	147,120	23,900	15,000	5.16
2.375	0.109	0.104	2.157	69,800	75,230	7,900	7,100	2.64
	0.118	0.110	2.139	75,260	81,120	8,300	7,500	2.85
	0.125	0.117	2.125	79,480	85,660	8,900	8,000	3.01
	0.134	0.126	2.107	84,860	91,460	9,600	8,700	3.21
	0.145	0.137	2.085	91,380	98,490	10,400	9,400	3.46
	0.156	0.148	2.063	97,830	105,430	11,200	10,100	3.70
	0.175	0.167	2.025	108,800	117,260	12,700	11,400	4.12
	0.188	0.176	1.999	116,190	125,230	13,400	12,100	4.40
	0.204	0.192	1.967	125,160	134,890	14,600	13,100	4.73
	0.224	0.212	1.927	136,160	146,750	16,100	14,500	5.15
	0.250	0.238	1.875	150,130	161,810	18,000	15,000	5.68
	0.276	0.261	1.823	163,720	176,450	19,800	15,000	6.19
	0.281	0.266	1.813	166,290	179,220	20,200	15,000	6.29
	0.300	0.285	1.775	175,920	189,600	21,600	15,000	6.65
2.625	0.145	0.137	2.335	101,620	109,530	9,400	8,500	3.84
	0.156	0.148	2.313	108,850	117,310	10,200	9,200	4.12
	0.175	0.167	2.275	121,160	130,590	11,500	10,300	4.58
	0.188	0.176	2.249	129,470	139,550	12,200	11,000	4.90
	0.204	0.192	2.217	139,570	150,430	13,200	11,800	5.28
	0.224	0.212	2.177	151,990	163,810	14,500	13,100	5.75
	0.250	0.238	2.125	167,790	180,840	16,300	14,700	6.35
	0.276	0.261	2.073	183,220	197,470	17,900	15,000	6.93
	0.281	0.266	2.063	186,140	200,620	18,200	15,000	7.04
	0.300	0.285	2.025	197,110	212,440	19,500	15,000	7.46
2.875	0.134	0.126	2.607	103,800	111,870	7,900	7,100	3.93
	0.145	0.137	2.585	111,870	120,570	8,600	7,800	4.23
	0.156	0.148	2.563	119,870	129,190	9,300	8,400	4.53
	0.175	0.167	2.525	133,530	143,910	10,500	9,500	5.05
	0.188	0.176	2.499	142,760	153,860	11,100	10,000	5.40
	0.204	0.192	2.467	153,980	165,960	12,000	10,800	5.82
	0.224	0.212	2.427	167,810	180,870	13,300	11,900	6.35
	0.250	0.238	2.375	185,460	199,880	14,900	13,400	7.02
	0.276	0.261	2.323	202,720	218,480	16,300	14,700	7.67
	0.281	0.266	2.313	205,990	222,010	16,700	15,000	7.79
	0.300	0.285	2.275	218,310	235,290	17,800	15,000	8.26
3.500	0.156	0.148	3.188	147,420	158,890	7,600	6,900	5.58
	0.175	0.167	3.150	164,440	177,230	8,600	7,800	6.22
	0.188	0.176	3.124	175,960	189,650	9,200	8,300	6.66
	0.204	0.192	3.092	190,020	204,790	9,900	8,900	7.19
	0.224	0.212	3.052	207,380	223,510	10,900	9,800	7.84
	0.250	0.238	3.000	229,610	247,470	12,200	11,000	8.69
	0.276	0.261	2.948	251,460	271,020	13,400	12,100	9.51
	0.281	0.266	2.938	255,620	275,500	13,700	12,300	9.67
	0.300	0.285	2.900	271,300	292,400	14,700	13,200	10.26

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Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
1.250	0.080	0.075	1.090	29,390	31,740	12,000	10,800	1.00
	0.087	0.082	1.076	31,770	34,310	13,100	11,800	1.08
	0.095	0.090	1.060	34,450	37,210	14,400	13,000	1.17
	0.102	0.097	1.046	36,770	39,710	15,500	13,950	1.25
	0.109	0.104	1.032	39,050	42,180	16,600	15,000	1.33
	0.118	0.110	1.014	41,940	45,300	17,600	15,000	1.43
	0.125	0.117	1.000	44,160	47,690	18,700	15,000	1.50
	0.134	0.126	0.982	46,960	50,710	20,200	15,000	1.60
	0.145	0.137	0.960	50,310	54,340	21,900	15,000	1.71
	0.156	0.148	0.938	53,590	57,880	23,700	15,000	1.82
	0.175	0.167	0.900	59,070	63,800	26,700	15,000	2.01
1.500	0.087	0.082	1.326	38,600	41,690	10,900	9,800	1.31
	0.095	0.090	1.310	41,910	45,260	12,000	10,800	1.43
	0.102	0.097	1.296	44,780	48,360	12,900	11,600	1.52
	0.109	0.104	1.282	47,610	51,420	13,900	12,500	1.62
	0.118	0.110	1.264	51,210	55,300	14,700	13,200	1.74
	0.125	0.117	1.250	53,970	58,290	15,600	14,000	1.84
	0.134	0.126	1.232	57,480	62,070	16,800	15,000	1.96
	0.145	0.137	1.210	61,690	66,630	18,300	15,000	2.10
	0.156	0.148	1.188	65,830	71,100	19,700	15,000	2.24
	0.175	0.167	1.150	72,810	78,630	22,300	15,000	2.48
	0.188	0.180	1.124	77,450	83,650	24,000	15,000	2.64
	0.204	0.196	1.092	83,020	89,660	26,100	15,000	2.83
1.750	0.095	0.090	1.560	49,370	53,320	10,300	9,300	1.68
	0.102	0.097	1.546	52,780	57,000	11,100	10,000	1.80
	0.109	0.104	1.532	56,160	60,660	11,900	10,700	1.91
	0.118	0.110	1.514	60,470	65,310	12,600	11,300	2.06
	0.125	0.117	1.500	63,780	68,880	13,400	12,000	2.17
	0.134	0.126	1.482	67,990	73,430	14,400	13,000	2.31
	0.145	0.137	1.460	73,080	78,920	15,700	14,100	2.49
	0.156	0.148	1.438	78,080	84,330	16,900	15,000	2.66
	0.175	0.167	1.400	86,550	93,470	19,100	15,000	2.95
	0.188	0.180	1.374	92,210	99,580	20,600	15,000	3.14
	0.204	0.196	1.342	99,030	106,950	22,400	15,000	3.37
	0.224	0.216	1.302	107,330	115,920	24,700	15,000	3.65
	0.250	0.242	1.250	117,750	127,170	27,700	15,000	4.01
2.000	0.109	0.104	1.782	64,720	69,900	10,400	9,400	2.20
	0.118	0.110	1.764	69,730	75,310	11,000	9,900	2.37
	0.125	0.117	1.750	73,590	79,480	11,700	10,500	2.51
	0.134	0.126	1.732	78,510	84,790	12,600	11,300	2.67
	0.145	0.137	1.710	84,460	91,210	13,700	12,300	2.88
	0.156	0.148	1.688	90,330	97,550	14,800	13,300	3.08
	0.175	0.167	1.650	100,280	108,310	16,700	15,000	3.41
	0.188	0.176	1.624	106,970	115,520	17,600	15,000	3.64
	0.204	0.192	1.592	115,040	124,250	19,200	15,000	3.92
	0.224	0.212	1.552	124,920	134,910	21,200	15,000	4.25
	0.250	0.238	1.500	137,380	148,370	23,800	15,000	4.68

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
2.000	0.276	0.261	1.448	149,410	161,360	26,100	15,000	5.09
	0.281	0.266	1.438	151,670	163,810	26,600	15,000	5.16
2.375	0.109	0.104	2.157	77,560	83,760	8,800	7,900	2.64
	0.118	0.110	2.139	83,630	90,320	9,300	8,300	2.85
	0.125	0.117	2.125	88,310	95,380	9,900	8,900	3.01
	0.134	0.126	2.107	94,290	101,840	10,600	9,500	3.21
	0.145	0.137	2.085	101,530	109,650	11,500	10,400	3.46
	0.156	0.148	2.063	108,700	117,390	12,500	11,200	3.70
	0.175	0.167	2.025	120,890	130,560	14,100	12,700	4.12
	0.188	0.176	1.999	129,100	139,430	14,800	13,300	4.40
	0.204	0.192	1.967	139,070	150,190	16,200	14,600	4.73
	0.224	0.212	1.927	151,290	163,400	17,900	15,000	5.15
	0.250	0.238	1.875	166,810	180,160	20,000	15,000	5.68
	0.276	0.261	1.823	181,910	196,460	22,000	15,000	6.19
	0.281	0.266	1.813	184,760	199,540	22,400	15,000	6.29
	0.300	0.285	1.775	195,470	211,100	24,000	15,000	6.65
2.625	0.145	0.137	2.335	112,910	121,950	10,400	9,400	3.84
	0.156	0.148	2.313	120,940	130,620	11,300	10,100	4.12
	0.175	0.167	2.275	134,630	145,400	12,700	11,500	4.58
	0.188	0.176	2.249	143,860	155,370	13,400	12,100	4.90
	0.204	0.192	2.217	155,080	167,490	14,600	13,200	5.28
	0.224	0.212	2.177	168,880	182,390	16,200	14,500	5.75
	0.250	0.238	2.125	186,440	201,350	18,100	15,000	6.35
	0.276	0.261	2.073	203,570	219,860	19,900	15,000	6.93
	0.281	0.266	2.063	206,820	223,370	20,300	15,000	7.04
	0.300	0.285	2.025	219,020	236,540	21,700	15,000	7.46
	0.134	0.126	2.607	115,330	124,560	8,800	7,900	3.93
	0.145	0.137	2.585	124,300	134,240	9,500	8,600	4.23
	0.156	0.148	2.563	133,190	143,840	10,300	9,300	4.53
	0.175	0.167	2.525	148,370	160,230	11,600	10,500	5.05
	0.188	0.176	2.499	158,620	171,310	12,200	11,000	5.40
	0.204	0.192	2.467	171,090	184,780	13,400	12,000	5.82
	0.224	0.212	2.427	186,460	201,380	14,700	13,300	6.35
	0.250	0.238	2.375	206,060	222,550	16,600	14,900	7.02
	0.276	0.261	2.323	225,240	243,260	18,200	15,000	7.67
	0.281	0.266	2.313	228,880	247,190	18,500	15,000	7.79
	0.300	0.285	2.275	242,570	261,970	19,800	15,000	8.26
3.500	0.156	0.148	3.188	163,800	176,910	8,500	7,600	5.58
	0.175	0.167	3.150	182,710	197,330	9,500	8,600	6.22
	0.188	0.176	3.124	195,510	211,160	10,100	9,100	6.66
	0.204	0.192	3.092	211,130	228,020	11,000	9,900	7.19
	0.224	0.212	3.052	230,420	248,850	12,100	10,900	7.84
	0.250	0.238	3.000	255,130	275,540	13,600	12,200	8.69
	0.276	0.261	2.948	279,400	301,760	14,900	13,400	9.51
	0.281	0.266	2.938	284,030	306,750	15,200	13,700	9.67
	0.300	0.285	2.900	301,440	325,560	16,300	14,700	10.26

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Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
1.250	0.080	0.075	1.090	32,330	33,800	13,200	11,900	1.00
	0.087	0.082	1.076	34,950	36,540	14,400	13,000	1.08
	0.095	0.090	1.060	37,900	39,620	15,800	14,300	1.17
	0.102	0.097	1.046	40,440	42,280	17,100	15,000	1.25
	0.109	0.104	1.032	42,960	44,910	18,300	15,000	1.33
	0.118	0.110	1.014	46,140	48,230	19,400	15,000	1.43
	0.125	0.117	1.000	48,570	50,780	20,600	15,000	1.50
	0.134	0.126	0.982	51,650	54,000	22,200	15,000	1.60
	0.145	0.137	0.960	55,340	57,860	24,100	15,000	1.71
	0.156	0.148	0.938	58,950	61,630	26,000	15,000	1.82
	0.175	0.167	0.900	64,980	67,930	29,400	15,000	2.01
1.500	0.087	0.082	1.326	42,460	44,390	12,000	10,800	1.31
	0.095	0.090	1.310	46,100	48,200	13,200	11,900	1.43
	0.102	0.097	1.296	49,250	51,490	14,200	12,800	1.52
	0.109	0.104	1.282	52,370	54,750	15,300	13,700	1.62
	0.118	0.110	1.264	56,330	58,890	16,100	14,500	1.74
	0.125	0.117	1.250	59,370	62,060	17,200	15,000	1.84
	0.134	0.126	1.232	63,220	66,100	18,500	15,000	1.96
	0.145	0.137	1.210	67,860	70,950	20,100	15,000	2.10
	0.156	0.148	1.188	72,420	75,710	21,700	15,000	2.24
	0.175	0.167	1.150	80,090	83,730	24,500	15,000	2.48
	0.188	0.180	1.124	85,190	89,070	26,400	15,000	2.64
	0.204	0.196	1.092	91,320	95,470	28,700	15,000	2.83
1.750	0.095	0.090	1.560	54,310	56,770	11,300	10,200	1.68
	0.102	0.097	1.546	58,060	60,700	12,200	11,000	1.80
	0.109	0.104	1.532	61,780	64,590	13,100	11,800	1.91
	0.118	0.110	1.514	66,520	69,540	13,800	12,400	2.06
	0.125	0.117	1.500	70,160	73,350	14,700	13,200	2.17
	0.134	0.126	1.482	74,790	78,190	15,800	14,300	2.31
	0.145	0.137	1.460	80,380	84,040	17,200	15,000	2.49
	0.156	0.148	1.438	85,890	89,790	18,600	15,000	2.66
	0.175	0.167	1.400	95,200	99,530	21,000	15,000	2.95
	0.188	0.180	1.374	101,430	106,040	22,600	15,000	3.14
	0.204	0.196	1.342	108,930	113,890	24,600	15,000	3.37
	0.224	0.216	1.302	118,070	123,430	27,200	15,000	3.65
	0.250	0.242	1.250	129,530	135,410	30,400	15,000	4.01
2.000	0.109	0.104	1.782	71,190	74,430	11,500	10,400	2.20
	0.118	0.110	1.764	76,710	80,190	12,100	10,900	2.37
	0.125	0.117	1.750	80,950	84,630	12,900	11,600	2.51
	0.134	0.126	1.732	86,370	90,290	13,900	12,500	2.67
	0.145	0.137	1.710	92,900	97,130	15,100	13,600	2.88
	0.156	0.148	1.688	99,360	103,880	16,300	14,700	3.08
	0.175	0.167	1.650	110,310	115,330	18,400	15,000	3.41
	0.188	0.176	1.624	117,660	123,010	19,400	15,000	3.64
	0.204	0.192	1.592	126,550	132,300	21,100	15,000	3.92
	0.224	0.212	1.552	137,410	143,650	23,300	15,000	4.25
	0.250	0.238	1.500	151,110	157,980	26,200	15,000	4.68

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength			
O.D.	t	tmin	I.D.	Lbs.	Lbs.	psi	psi	lbs./ft.
in.	in.	in.	in.					
2.000	0.276	0.261	1.448	164,350	171,820	28,000	15,000	5.09
	0.281	0.266	1.438	166,840	174,430	29,300	15,000	5.16
2.375	0.109	0.104	2.157	85,310	89,190	9,600	8,700	2.64
	0.118	0.110	2.139	91,990	96,170	10,200	9,200	2.85
	0.125	0.117	2.125	97,140	101,560	10,900	9,800	3.01
	0.134	0.126	2.107	103,720	108,440	11,700	10,500	3.21
	0.145	0.137	2.085	111,690	116,760	12,700	11,400	3.46
	0.156	0.148	2.063	119,570	125,000	13,700	12,300	3.70
	0.175	0.167	2.025	132,980	139,020	15,500	13,900	4.12
	0.188	0.176	1.999	142,010	148,470	16,400	14,800	4.40
	0.204	0.192	1.967	152,970	159,930	17,800	15,000	4.73
	0.224	0.212	1.927	166,420	173,990	19,600	15,000	5.15
	0.250	0.238	1.875	183,490	191,830	22,000	15,000	5.68
	0.276	0.261	1.823	200,100	209,190	24,200	15,000	6.19
	0.281	0.266	1.813	203,240	212,480	24,600	15,000	6.29
	0.300	0.285	1.775	215,010	224,780	26,400	15,000	6.65
2.625	0.145	0.137	2.335	124,210	129,850	11,500	10,400	3.84
	0.156	0.148	2.313	133,040	139,080	12,400	11,200	4.12
	0.175	0.167	2.275	148,090	154,820	14,000	12,600	4.58
	0.188	0.176	2.249	158,250	165,440	14,800	13,300	4.90
	0.204	0.192	2.217	170,590	178,340	16,100	14,500	5.28
	0.224	0.212	2.177	185,760	194,210	17,800	15,000	5.75
	0.250	0.238	2.125	205,080	214,400	19,900	15,000	6.35
	0.276	0.261	2.073	223,930	234,110	21,900	15,000	6.93
	0.281	0.266	2.063	227,500	237,840	22,300	15,000	7.04
	0.300	0.285	2.025	240,920	251,870	23,900	15,000	7.46
2.875	0.134	0.126	2.607	126,860	132,630	9,600	8,700	3.93
	0.145	0.137	2.585	136,730	142,940	10,500	9,500	4.23
	0.156	0.148	2.563	146,510	153,170	11,300	10,200	4.53
	0.175	0.167	2.525	163,200	170,620	12,800	11,500	5.05
	0.188	0.176	2.499	174,480	182,410	13,400	12,000	5.40
	0.204	0.192	2.467	188,200	196,760	14,700	13,200	5.82
	0.224	0.212	2.427	205,110	214,430	16,200	14,600	6.35
	0.250	0.238	2.375	226,670	236,970	18,200	15,000	7.02
	0.276	0.261	2.323	247,760	259,030	20,000	15,000	7.67
	0.281	0.266	2.313	251,770	263,210	20,400	15,000	7.79
	0.300	0.285	2.275	266,820	278,950	21,800	15,000	8.26
3.500	0.156	0.148	3.188	180,180	188,370	9,300	8,400	5.58
	0.175	0.167	3.150	200,980	210,120	10,500	9,500	6.22
	0.188	0.176	3.124	215,070	224,840	11,200	10,100	6.66
	0.204	0.192	3.092	232,240	242,800	12,100	10,900	7.19
	0.224	0.212	3.052	253,460	264,980	13,300	12,000	7.84
	0.250	0.238	3.000	280,640	293,390	15,000	13,500	8.69
	0.276	0.261	2.948	307,350	321,320	16,400	14,800	9.51
	0.281	0.266	2.938	312,430	326,630	16,700	15,000	9.67
	0.300	0.285	2.900	331,580	346,660	17,900	15,000	10.26

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