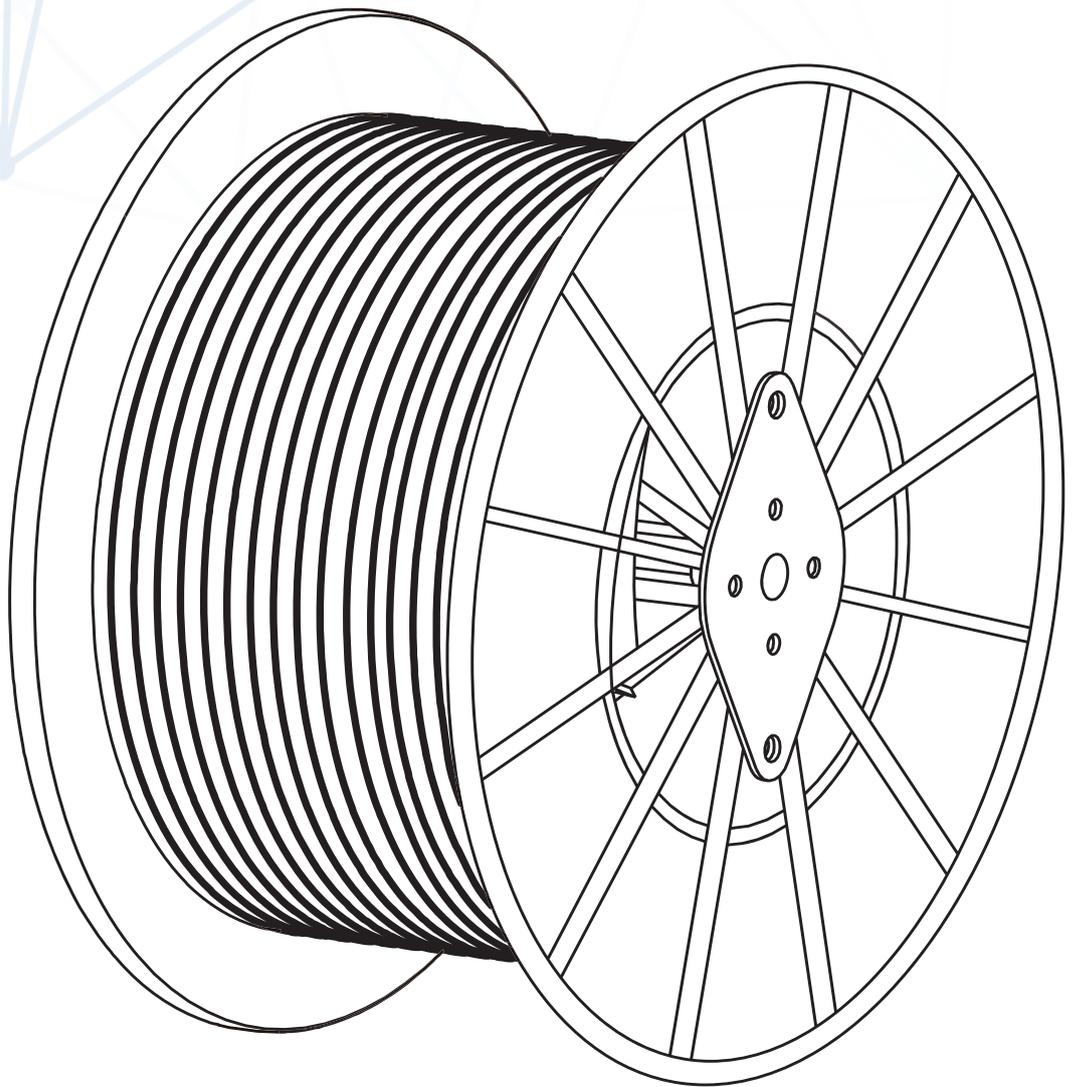


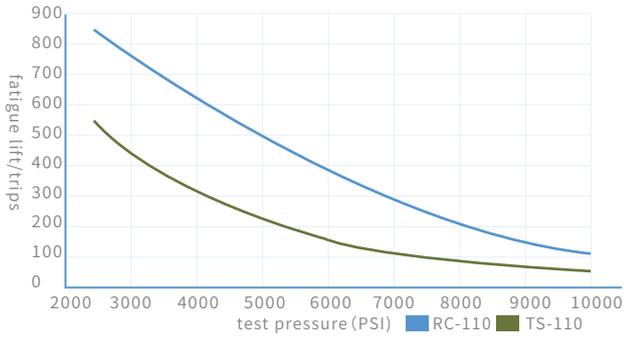


ReliaCoil

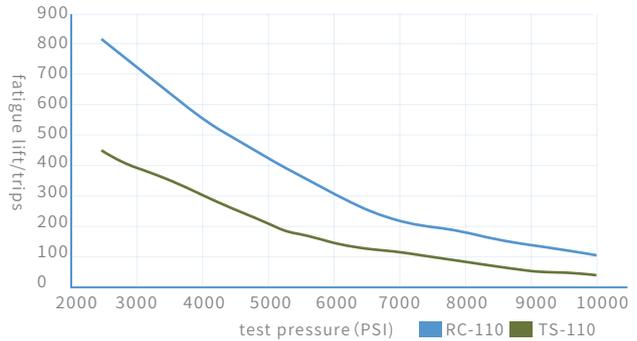


Fatigue Performance

The RC-110 coiled tubing has an ultra-high fatigue life, which is 1.5 times that of the TS-110 tubing, as shown in the figure below:



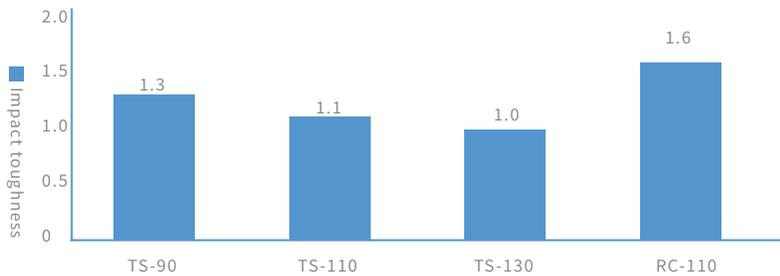
Comparison of fatigue life on base metal



Comparison of fatigue life on bias weld

Impact Property

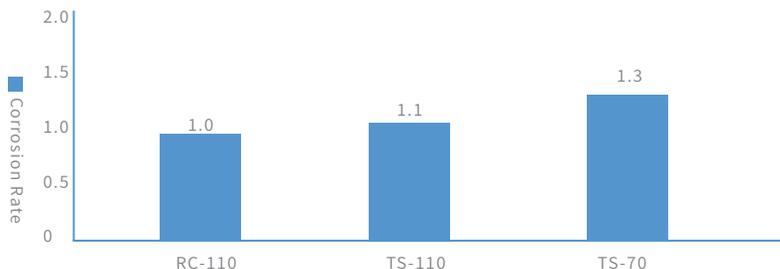
The RC-110 coiled tubing exhibits excellent impact performance. Under equivalent conditions at -50°C, its impact energy is 1.6 times that of TS-130, 1.5 times that of TS-110, and 1.2 times that of TS-90, as shown in the figure below:



Comparison of impact toughness between RC-110 and conventional coiled tubing at -50°C.

Corrosion Resistance Performance

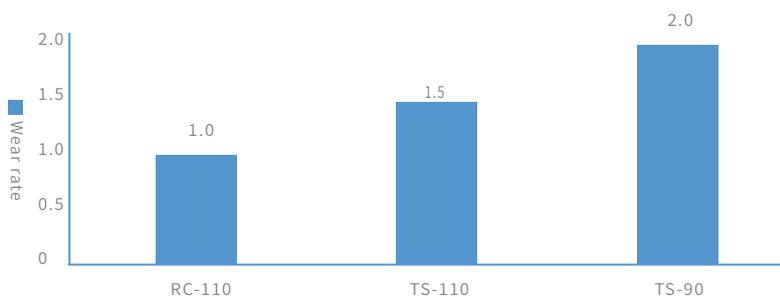
The RC-110 coiled tubing demonstrates strong resistance to hydrochloric acid corrosion, with a corrosion resistance rate 1.3 times that of TS-70 under equivalent conditions, and 1.1 times that of TS-110, as shown in the figure below:



Comparison of HCL corrosion rates

Corrosion Rate

The RC-110 coiled tubing demonstrates exceptional wear resistance, being twice that of TS-90 and 1.5 times that of TS-110 under equivalent conditions. The test results are shown in the following figure:



Comparison of abrasive wear test.

Make Energy Exploration Efficient and Safe

Jason High-strength RELIA COIL: RC-110, RC-130 offers the following advantages over conventional coiled tubing:

- Unique Chemical Composition
- Fine and Uniform Microstructure
- Ultra-high Fatigue Life
- Excellent Impact Toughness
- Outstanding Corrosion-resistance
- Superb Wear-resistance

Chemical Composition(MASS PERCENT)

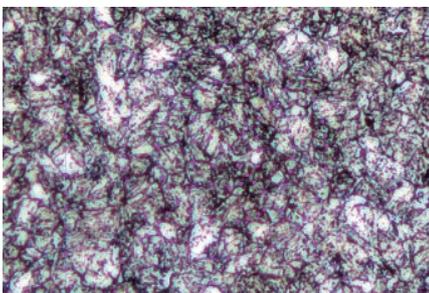
Grade	C	Mn	P	S	Si	Cr	Mo	Ni
RC-110	≤0.25	0.7~1.2	≤0.02	≤0.003	≤0.6	0.4~1.0	≤0.5	≤0.3
RC-130	≤0.25	0.7~1.2	≤0.02	≤0.003	≤0.6	0.4~1.0	≤0.5	≤0.3

Mechanical Properties

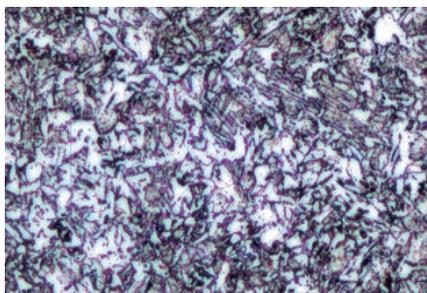
Grade	Yield Strength		Tensile Strength		Maximum Hardness
	Min		Min		
	psi	MPa	psi	MPa	Body and Weld
RC-110	110 000	758	118 000	814	33
RC-130	130 000	896	135 000	931	39

Microstructure

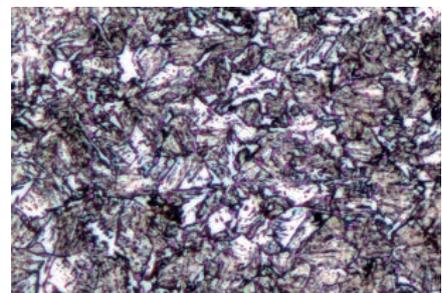
The Microstructure of the base metal, bias weld seam and longitudinal weld seam exhibits a uniformly consistent structure. The typical microstructural characteristics of the ReliaCoil are as shown in the figure below:



Base Metal



Longitudinal Weld Seam



Longitudinal Weld Seam

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Torsional Yield Strength	Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength				
in.	in.	in.	in.	Lbs.	Lbs.	Lb-ft	psi	psi	Lbs./ft.
1.250	0.080	0.075	1.090	32,350	34,700	860	13200	11900	1.00
	0.087	0.082	1.076	34,970	37,510	920	14430	13000	1.08
	0.095	0.090	1.060	37,920	40,680	980	15840	14300	1.17
	0.102	0.097	1.046	40,470	43,410	1030	17070	15000	1.25
	0.109	0.104	1.032	42,980	46,100	1090	18300	15000	1.33
	0.118	0.110	1.014	46,160	49,520	1150	19360	15000	1.43
	0.125	0.117	1.000	48,600	52,130	1200	20590	15000	1.50
	0.134	0.126	0.982	51,680	55,440	1260	22180	15000	1.60
	0.145	0.137	0.960	55,370	59,400	1320	24110	15000	1.71
	0.156	0.148	0.938	58,980	63,270	1390	26050	15000	1.82
	0.165	0.157	0.920	61,870	66,370	1440	27630	15000	1.91
0.175	0.167	0.900	65,010	69,740	1480	29390	15000	2.01	
1.500	0.087	0.082	1.326	42,480	45,570	1370	12030	10800	1.31
	0.095	0.090	1.310	46,130	49,480	1470	13200	11900	1.43
	0.102	0.097	1.296	49,280	52,860	1550	14230	12800	1.52
	0.109	0.104	1.282	52,400	56,210	1630	15250	13700	1.62
	0.118	0.110	1.264	56,360	60,450	1740	16130	14500	1.74
	0.125	0.117	1.250	59,400	63,720	1820	17160	15000	1.84
	0.134	0.126	1.232	63,260	67,860	1910	18480	15000	1.96
	0.145	0.137	1.210	67,900	72,840	2030	20090	15000	2.10
	0.156	0.148	1.188	72,450	77,720	2130	21710	15000	2.24
	0.165	0.157	1.170	76,120	81,660	2210	23030	15000	2.35
	0.175	0.167	1.150	80,130	85,960	2290	24490	15000	2.48
	0.188	0.180	1.124	85,240	91,440	2400	26400	15000	2.64
	0.204	0.196	1.092	91,360	98,010	2520	28750	15000	2.83
0.224	0.216	1.052	98,770	105,960	2660	31680	15000	3.06	
1.750	0.095	0.090	1.560	54,330	58,280	2050	11310	10200	1.68
	0.102	0.097	1.546	58,090	62,310	2180	12190	11000	1.80
	0.109	0.104	1.532	61,810	66,310	2300	13070	11800	1.91
	0.118	0.110	1.514	66,550	71,390	2460	13830	12400	2.06
	0.125	0.117	1.500	70,200	75,300	2560	14710	13200	2.17
	0.134	0.126	1.482	74,830	80,270	2710	15840	14300	2.31
	0.145	0.137	1.460	80,420	86,270	2870	17220	15000	2.49
	0.156	0.148	1.438	85,930	92,180	3030	18610	15000	2.66
	0.165	0.157	1.420	90,380	96,950	3160	19740	15000	2.80
	0.175	0.167	1.400	95,250	102,180	3290	20990	15000	2.95
	0.188	0.180	1.374	101,480	108,860	3450	22630	15000	3.14
	0.204	0.196	1.342	108,990	116,920	3650	24640	15000	3.37
	0.224	0.216	1.302	118,130	126,720	3870	27150	15000	3.65
	0.236	0.228	1.278	123,480	132,460	3990	28660	15000	3.82

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Torsional Yield Strength	Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength				
in.	in.	in.	in.	Lbs.	Lbs.	Lb-ft	psi	psi	Lbs./ft.
2.000	0.109	0.104	1.782	71,230	76,410	3080	11440	10300	2.20
	0.118	0.110	1.764	76,740	82,330	3290	12100	10900	2.37
	0.125	0.117	1.750	80,990	86,880	3440	12870	11600	2.51
	0.134	0.126	1.732	86,410	92,690	3640	13860	12500	2.67
	0.145	0.137	1.710	92,950	99,710	3870	15070	13600	2.88
	0.156	0.148	1.688	99,410	106,640	4100	16280	14700	3.08
	0.165	0.157	1.670	104,630	112,240	4270	17270	15000	3.24
	0.175	0.167	1.650	110,370	118,400	4460	18370	15000	3.41
	0.188	0.176	1.624	117,720	126,280	4700	19360	15000	3.64
	0.204	0.192	1.592	126,610	135,820	4980	21120	15000	3.92
	0.224	0.212	1.552	137,480	147,480	5300	23320	15000	4.25
	0.236	0.224	1.528	143,860	154,330	5480	24640	15000	4.68
0.250	0.238	1.500	151,190	162,190	5680	26180	15000	5.09	
2.375	0.109	0.104	2.157	85,360	91,560	4450	9630	8700	2.64
	0.118	0.110	2.139	92,040	98,730	4760	10190	9200	2.85
	0.125	0.117	2.125	97,190	104,260	5000	10840	9800	3.01
	0.134	0.126	2.107	103,770	111,320	5300	11670	10500	3.21
	0.145	0.137	2.085	111,740	119,870	5650	12690	11400	3.46
	0.156	0.148	2.063	119,630	128,330	6000	13710	12300	3.70
	0.165	0.157	2.045	126,010	135,180	6260	14540	13100	3.90
	0.175	0.167	2.025	133,050	142,720	6570	15470	13900	4.12
	0.188	0.176	1.999	142,090	152,420	6940	16300	14700	4.40
	0.204	0.192	1.967	153,050	164,180	7380	17790	15000	4.73
	0.224	0.212	1.927	166,510	178,620	7890	19640	15000	5.15
	0.236	0.224	1.903	174,450	187,140	8180	20750	15000	5.68
0.250	0.238	1.875	183,590	196,940	8510	22050	15000	6.19	
2.625	0.134	0.126	2.357	115,350	123,740	6580	10560	9500	3.57
	0.145	0.137	2.335	124,270	133,310	7030	11480	10300	3.84
	0.156	0.148	2.313	133,100	142,780	7470	12400	11200	4.12
	0.165	0.157	2.295	140,270	150,470	7820	13160	11800	4.34
	0.175	0.167	2.275	148,170	158,940	8200	14000	12600	4.58
	0.188	0.176	2.249	158,330	169,840	8670	14750	13300	4.90
	0.204	0.192	2.217	170,670	183,090	9230	16090	14500	5.28
	0.224	0.212	2.177	185,860	199,380	9900	17770	15000	5.75
	0.236	0.224	2.153	194,840	209,010	10290	18770	15000	6.35
0.250	0.238	2.125	205,190	220,110	10720	19950	15000	6.93	
2.875	0.145	0.137	2.585	136,800	146,750	8560	10480	9400	4.23
	0.156	0.148	2.563	146,580	157,240	9100	11330	10200	4.53
	0.165	0.157	2.545	154,520	165,760	9530	12010	10800	4.78
	0.175	0.167	2.525	163,280	175,160	10000	12780	11500	5.05
	0.188	0.176	2.499	174,570	187,270	10600	13470	12100	5.40
	0.204	0.192	2.467	188,300	201,990	11300	14690	13200	5.82
	0.224	0.212	2.427	205,210	220,140	12160	16220	14600	6.35
	0.236	0.224	2.403	215,230	230,880	12640	17140	15000	7.02
0.250	0.238	2.375	226,780	243,280	13190	18210	15000	7.67	
3.500	0.156	0.148	3.188	180,270	193,390	13880	9300	8400	5.58
	0.165	0.157	3.170	190,160	203,990	14580	9870	8900	5.88
	0.175	0.167	3.150	201,080	215,710	15320	10500	9500	6.22
	0.188	0.176	3.124	215,170	230,820	16280	11060	10000	6.66
	0.204	0.192	3.092	232,360	249,260	17420	12070	10900	7.19
	0.224	0.212	3.052	253,590	272,040	18790	13330	12000	7.84
	0.236	0.224	3.028	266,200	285,560	19590	14080	12700	8.69
	0.250	0.238	3.000	280,780	301,200	20500	14960	13500	9.51

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Torsional Yield Strength	Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength				
in.	in.	in.	in.	Lbs.	Lbs.	Lb-ft	psi	psi	Lbs./ft.
1.250	0.080	0.075	1.090	38,230	39,700	1010	15600	14000	1.00
	0.087	0.082	1.076	41,320	42,910	1080	17060	15000	1.08
	0.095	0.090	1.060	44,810	46,540	1160	18720	15000	1.17
	0.102	0.097	1.046	47,820	49,660	1220	20180	15000	1.25
	0.109	0.104	1.032	50,790	52,750	1280	21630	15000	1.33
	0.118	0.110	1.014	54,550	56,650	1360	22880	15000	1.43
	0.125	0.117	1.000	57,430	59,640	1420	24340	15000	1.50
	0.134	0.126	0.982	61,070	63,420	1480	26210	15000	1.60
	0.145	0.137	0.960	65,440	67,950	1560	28500	15000	1.71
	0.156	0.148	0.938	69,700	72,380	1640	30780	15000	1.82
	0.165	0.157	0.920	73,120	75,930	1690	32660	15000	1.91
0.175	0.167	0.900	76,830	79,790	1750	34740	15000	2.01	
1.500	0.087	0.082	1.326	50,210	52,140	1610	14210	12800	1.31
	0.095	0.090	1.310	54,510	56,610	1730	15600	14000	1.43
	0.102	0.097	1.296	58,240	60,480	1840	16810	15000	1.52
	0.109	0.104	1.282	61,920	64,300	1930	18030	15000	1.62
	0.118	0.110	1.264	66,600	69,160	2050	19070	15000	1.74
	0.125	0.117	1.250	70,200	72,890	2150	20280	15000	1.84
	0.134	0.126	1.232	74,760	77,630	2260	21840	15000	1.96
	0.145	0.137	1.210	80,240	83,330	2390	23750	15000	2.10
	0.156	0.148	1.188	85,630	88,920	2510	25650	15000	2.24
	0.165	0.157	1.170	89,960	93,420	2610	27210	15000	2.35
	0.175	0.167	1.150	94,700	98,340	2710	28950	15000	2.48
	0.188	0.180	1.124	100,740	104,610	2840	31200	15000	2.64
	0.204	0.196	1.092	107,980	112,130	2980	33970	15000	2.83
	0.224	0.216	1.052	116,730	121,220	3140	37440	15000	3.06
1.750	0.095	0.090	1.560	64,210	66,680	2430	13370	12000	1.68
	0.102	0.097	1.546	68,650	71,290	2570	14410	13000	1.80
	0.109	0.104	1.532	73,050	75,860	2720	15450	13900	1.91
	0.118	0.110	1.514	78,650	81,670	2890	16340	14700	2.06
	0.125	0.117	1.500	82,960	86,150	3030	17380	15000	2.17
	0.134	0.126	1.482	88,440	91,840	3200	18720	15000	2.31
	0.145	0.137	1.460	95,050	98,700	3390	20350	15000	2.49
	0.156	0.148	1.438	101,560	105,460	3580	21990	15000	2.66
	0.165	0.157	1.420	106,810	110,920	3730	23330	15000	2.80
	0.175	0.167	1.400	112,570	116,900	3890	24810	15000	2.95
	0.188	0.180	1.374	119,930	124,540	4080	26740	15000	3.14
	0.204	0.196	1.342	128,810	133,760	4310	29120	15000	3.37
	0.224	0.216	1.302	139,600	144,970	4560	32090	15000	3.65
	0.236	0.228	1.278	145,930	151,540	4710	33870	15000	3.82

Outside Diameter	Wall Thickness		Calculated Inside Diameter	Tube Body Load		Torsional Yield Strength	Minimum Internal Yield Strength	Hydro Test Pressure	Mass per Unit Length
	Specified	Minimum		Minimum Yield Strength	Minimum Tensile Strength				
in.	in.	in.	in.	Lbs.	Lbs.	Lb-ft	psi	psi	Lbs./ft.
2.000	0.109	0.104	1.782	84,180	87,420	3630	13520	12200	2.20
	0.118	0.110	1.764	90,700	94,180	3880	14300	12900	2.37
	0.125	0.117	1.750	95,720	99,400	4070	15210	13700	2.51
	0.134	0.126	1.732	102,120	106,050	4300	16380	14700	2.67
	0.145	0.137	1.710	109,850	114,080	4570	17810	15000	2.88
	0.156	0.148	1.688	117,480	122,000	4840	19240	15000	3.08
	0.165	0.157	1.670	123,660	128,410	5050	20410	15000	3.24
	0.175	0.167	1.650	130,440	135,450	5270	21710	15000	3.41
	0.188	0.176	1.624	139,130	144,480	5550	22880	15000	3.64
	0.204	0.192	1.592	149,630	155,390	5880	24960	15000	3.92
	0.224	0.212	1.552	162,470	168,720	6260	27560	15000	4.25
	0.236	0.224	1.528	170,020	176,560	6480	29120	15000	4.45
0.250	0.238	1.500	178,680	185,550	6720	30940	15000	4.68	
2.375	0.109	0.104	2.157	100,870	104,750	5260	11390	10300	2.64
	0.118	0.110	2.139	108,770	112,950	5630	12040	10800	2.85
	0.125	0.117	2.125	114,860	119,280	5910	12810	11500	3.01
	0.134	0.126	2.107	122,640	127,360	6260	13790	12400	3.21
	0.145	0.137	2.085	132,060	137,140	6680	15000	13500	3.46
	0.156	0.148	2.063	141,380	146,810	7090	16200	14600	3.70
	0.165	0.157	2.045	148,930	154,650	7410	17190	15000	3.90
	0.175	0.167	2.025	157,240	163,280	7760	18280	15000	4.12
	0.188	0.176	1.999	167,920	174,380	8190	19270	15000	4.40
	0.204	0.192	1.967	180,880	187,830	8710	21020	15000	4.73
	0.224	0.212	1.927	196,780	204,350	9320	23210	15000	5.15
	0.236	0.224	1.903	206,170	214,100	9670	24520	15000	5.40
0.250	0.238	1.875	216,970	225,310	10060	26050	15000	5.68	
2.625	0.134	0.126	2.357	136,320	141,570	7,780	12480	11200	3.57
	0.145	0.137	2.335	146,860	152,510	8,310	13570	12200	3.84
	0.156	0.148	2.313	157,300	163,350	8,830	14660	13200	4.12
	0.165	0.157	2.295	165,770	172,150	9,240	15550	14000	4.34
	0.175	0.167	2.275	175,100	181,840	9,690	16540	14900	4.58
	0.188	0.176	2.249	187,110	194,310	10,250	17430	15000	4.90
	0.204	0.192	2.217	201,710	209,460	10,910	19020	15000	5.28
	0.224	0.212	2.177	219,650	228,100	11,700	21000	15000	5.75
	0.236	0.224	2.153	230,260	239,120	12,160	22190	15000	6.03
0.250	0.238	2.125	242,490	251,820	12,670	23570	15000	6.35	
2.875	0.145	0.137	2.585	161,670	167,880	10110	12390	11200	4.23
	0.156	0.148	2.563	173,230	179,890	10750	13380	12000	4.53
	0.165	0.157	2.545	182,620	189,640	11260	14200	12800	4.78
	0.175	0.167	2.525	192,970	200,390	11820	15100	13600	5.05
	0.188	0.176	2.499	206,310	214,240	12520	15920	14300	5.40
	0.204	0.192	2.467	222,530	231,090	13360	17360	15000	5.82
	0.224	0.212	2.427	242,520	251,850	14360	19170	15000	6.35
	0.236	0.224	2.403	254,360	264,140	14940	20260	15000	6.67
	0.250	0.238	2.375	268,020	278,330	15590	21520	15000	7.02
3.500	0.156	0.148	3.188	213,050	221,240	16410	10990	9900	5.58
	0.165	0.157	3.170	224,740	233,380	17220	11660	10500	5.88
	0.175	0.167	3.150	237,640	246,780	18110	12410	11200	6.22
	0.188	0.176	3.124	254,300	264,080	19230	13070	11800	6.66
	0.204	0.192	3.092	274,610	285,170	20580	14260	12800	7.19
	0.224	0.212	3.052	299,700	311,220	22210	15750	14200	7.84
	0.236	0.224	3.028	314,600	326,700	23160	16640	15000	8.23
	0.250	0.238	3.000	331,830	344,590	24230	17680	15000	8.69



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