



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 500

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/t)	
2	2.00	1.91	2.13	0.06	0.5	14	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.59	0.06	0.6	18	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.12	0.06	0.8	24	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.46	0.06	1.0	31	4" 8Rd EUE Long* TC
4	3.98	3.89	4.12	0.07	1.1	34	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	4.58	0.08	1.6	48	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	5.62	0.10	2.4	71	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	6.43	0.11	2.5	75	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.12	0.14	5.2	156	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	9.17	0.16	6.5	195	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	11.10	0.19	8.7	260	11-3/4" 8/6Rd Csg***TC
12	11.97	11.87	12.39	0.21	11.0	331	13-3/8" 8/6Rd Csg***TC
14-1/2	14.48	14.39	15.00	0.26	15.0	449	16" 6Rd Csg TC
16-1/2	16.60	16.50	17.19	0.30	20.8	623	18" 6Rd Csg TC
18	17.98	17.89	18.62	0.32	23.5	705	20" 6Rd Csg TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	500	630	160	2,500	106
2-1/2	500	630	90	3,000	130
3	500	630	50	3,500	156
3-1/2	500	630	40	4,000	173
4	500	630	40	5,500	206
5	500	630	40	6,500	229
6	500	630	40	10,000	281
6-L	500	630	40	13,000	321
8	500	630	40	21,000	406
10	500	630	40	26,500	458
10-L	500	630	40	39,000	555
12	500	630	40	49,000	620
14-1/2	500	630	40	71,500	750
16-1/2	500	630	40	94,000	859
18	500	630	40	110,500	931

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 800

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14", 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.13	0.06	0.5	14	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.61	0.07	0.6	19	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.17	0.09	1.0	29	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.52	0.10	1.3	39	4" 8Rd EUE Long* TC
4	3.98	3.89	4.21	0.11	1.6	47	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	4.68	0.13	2.1	64	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	5.74	0.16	3.1	94	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	6.56	0.18	3.6	107	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.29	0.23	6.9	208	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	9.36	0.25	8.7	261	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	11.33	0.31	11.6	348	11-3/4" 8/6Rd Csg***TC
12	11.97	11.87	12.65	0.34	14.7	440	13-3/8" 8/6Rd Csg***TC
14-1/2	14.48	14.39	15.31	0.42	21.0	631	16" 6Rd Csg TC
16-1/2	16.60	16.50	17.55	0.48	28.8	864	18" 6Rd Csg TC
18	17.98	17.89	19.02	0.52	32.8	985	20" 6Rd Csg TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	800	1,000	160	2,500	106
2-1/2	800	1,000	130	3,500	130
3	800	1,000	130	5,000	158
3-1/2	800	1,000	130	6,000	176
4	800	1,000	130	9,000	211
5	800	1,000	130	11,000	234
6	800	1,000	130	16,500	287
6-L	800	1,000	130	21,500	328
8	800	1,000	130	34,500	415
10	800	1,000	130	43,500	468
10-L	800	1,000	130	64,000	567
12	800	1,000	130	80,000	633
14-1/2	800	1,000	130	117,000	766
16-1/2	800	1,000	130	153,500	878
18	800	1,000	130	180,500	951

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 1000

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/t)	
2	2.00	1.91	2.14	0.07	0.5	16	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.64	0.09	0.8	23	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.21	0.11	1.1	34	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.57	0.12	1.5	45	4" 8Rd EUE Long* TC
4	3.98	3.89	4.27	0.14	1.9	56	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	4.74	0.16	2.5	76	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	5.82	0.20	3.7	112	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	6.65	0.22	4.3	129	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.41	0.28	8.2	245	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	9.49	0.32	10.3	308	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	11.49	0.39	13.6	408	11-3/4" 8/6Rd Csg***TC
12	11.97	11.87	12.83	0.43	17.2	515	13-3/8" 8/6Rd Csg***TC
14-1/2	14.48	14.39	15.53	0.52	25.1	752	16" 6Rd Csg TC
16-1/2	16.60	16.50	17.80	0.60	34.2	1,026	18" 6Rd Csg TC
18	17.98	17.89	19.28	0.65	39.2	1,176	20" 6Rd Csg TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	1,000	1,250	240	3,000	107
2-1/2	1,000	1,250	240	4,500	132
3	1,000	1,250	240	6,500	161
3-1/2	1,000	1,250	240	8,000	179
4	1,000	1,250	240	11,000	214
5	1,000	1,250	240	14,000	237
6	1,000	1,250	240	21,000	291
6-L	1,000	1,250	240	27,500	333
8	1,000	1,250	240	43,500	420
10	1,000	1,250	240	55,500	475
10-L	1,000	1,250	240	81,500	575
12	1,000	1,250	240	101,500	642
14-1/2	1,000	1,250	240	148,500	776
16-1/2	1,000	1,250	240	194,000	890
18	1,000	1,250	240	208,000	964

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 1250

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14", 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.18	0.09	0.6	18	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.69	0.11	0.9	27	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.27	0.14	1.4	41	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.63	0.15	1.8	53	4" 8Rd EUE Long* TC
4	3.98	3.89	4.35	0.18	2.3	68	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	4.83	0.20	3.0	90	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	5.92	0.25	4.5	134	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	6.77	0.28	5.3	159	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.56	0.36	9.7	290	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	9.66	0.40	12.2	367	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	11.70	0.49	16.1	484	11-3/4" 8/6Rd Csg***TC
12	11.97	11.87	13.06	0.55	20.7	620	13-3/8" 8/6Rd Csg***TC
14-1/2	14.48	14.39	15.80	0.66	30.2	906	16" 6Rd Csg TC
16-1/2	16.60	16.50	18.11	0.76	41.2	1,237	18" 6Rd Csg TC
18	17.98	17.89	19.62	0.82	47.3	1,418	20" 6Rd Csg TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	1,250	1,570	450	3,500	109
2-1/2	1,250	1,570	450	5,500	135
3	1,250	1,570	450	8,000	164
3-1/2	1,250	1,570	450	10,000	182
4	1,250	1,570	450	14,500	217
5	1,250	1,570	450	17,500	241
6	1,250	1,570	450	26,500	296
6-L	1,250	1,570	450	34,500	339
8	1,250	1,570	450	55,500	428
10	1,250	1,570	450	70,500	483
10-L	1,250	1,570	450	103,500	585
12	1,250	1,570	450	129,000	653
14-1/2	1,250	1,570	450	167,500	790
16-1/2	1,250	1,570	450	194,000	906
18	1,250	1,570	450	208,000	981

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 1500

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14", 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.22	0.11	0.7	22	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.74	0.14	1.1	32	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.33	0.17	1.6	48	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.70	0.18	2.1	62	4" 8Rd EUE Long* TC
4	3.98	3.89	4.42	0.22	2.7	80	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	4.91	0.24	3.5	105	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	6.03	0.30	5.3	158	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	6.89	0.34	6.3	188	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.71	0.43	11.3	338	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	9.83	0.49	14.2	427	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	11.90	0.59	21.3	640	11-3/4 8/6Rd L Csg TC
12	11.97	11.87	13.29	0.66	24.3	728	13-3/8" 8/6Rd Csg***TC
14-1/2	14.48	14.39	16.08	0.80	35.5	1,066	16" 6Rd Csg TC
16-1/2	16.60	16.50	18.43	0.92	48.5	1,455	18" 6Rd Csg TC
18	17.98	17.89	19.97	1.00	55.7	1,670	20" 6Rd Csg TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	1,500	1,850	750	4,500	111
2-1/2	1,500	1,850	750	6,500	137
3	1,500	1,850	750	10,000	166
3-1/2	1,500	1,850	750	12,000	185
4	1,500	1,850	750	17,500	221
5	1,500	1,850	750	21,500	246
6	1,500	1,850	750	32,500	301
6-L	1,500	1,850	750	42,500	345
8	1,500	1,850	750	68,000	435
10	1,500	1,850	750	86,500	492
10-L	1,500	1,850	750	126,500	595
12	1,500	1,850	750	136,000	665
14-1/2	1,500	1,850	750	167,500	804
16-1/2	1,500	1,850	750	194,000	922
18	1,500	1,850	750	208,000	999

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 1750

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.26	0.13	0.8	25	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.79	0.16	1.2	37	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.39	0.20	1.8	55	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.76	0.22	2.4	71	4" 8Rd EUE Long* TC
4	3.98	3.89	4.50	0.26	3.1	93	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	5.00	0.29	4.1	122	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	6.13	0.35	6.0	181	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	7.02	0.41	7.3	220	7" 8Rd Csg Long**IJ
8	7.84	7.75	8.86	0.51	12.9	387	9-5/8" 8Rd Csg***IJ
10	8.85	8.76	10.01	0.58	16.4	492	10-3/4" 8Rd Csg***IJ
10-L	10.72	10.62	12.11	0.70	24.5	734	11-3/4 8/6Rd L Csg TC
12	11.97	11.87	13.53	0.78	31.0	929	13-3/8 8/6Rd L Csg TC
14-1/2	14.48	14.39	16.37	0.95	46.9	1,407	16 6Rd Csg L TC
16-1/2	16.60	16.50	18.76	1.08	63.6	1,908	18 6Rd Csg L TC
18	17.98	17.89	20.33	1.17	76.6	2,298	20 6Rd Csg L TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	1,750	2,100	1,200	5,000	113
2-1/2	1,750	2,100	1,200	8,000	139
3	1,750	2,100	1,200	12,000	169
3-1/2	1,750	2,100	1,200	14,500	188
4	1,750	2,100	1,200	21,000	225
5	1,750	2,100	1,200	25,500	250
6	1,750	2,100	1,200	38,500	307
6-L	1,750	2,100	1,200	50,500	351
8	1,750	2,100	1,200	80,500	443
10	1,750	2,100	1,200	102,500	500
10-L	1,750	2,100	1,200	127,000	606
12	1,750	2,100	1,200	156,000	676
14-1/2	1,750	2,100	1,200	197,000	819
16-1/2	1,750	2,100	1,200	226,000	938
18	1,750	2,100	1,200	245,000	1,016

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 2000

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.30	0.15	0.9	28	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.84	0.19	1.4	42	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.45	0.23	2.1	63	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.83	0.25	2.7	80	4" 8Rd EUE Long* TC
4	3.98	3.89	4.58	0.30	3.6	108	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	5.09	0.33	4.6	138	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	6.24	0.41	6.9	207	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	7.14	0.47	9.1	274	7-5/8" 8Rd Csg Long**IJ
8	7.84	7.75	9.02	0.59	15.2	455	9-5/8" 8Rd Csg Long**TC
10	8.85	8.76	10.18	0.67	19.4	582	10-3/4" 8Rd Csg***TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	2,000	2,350	1,700	6,000	115
2-1/2	2,000	2,350	1,700	9,500	142
3	2,000	2,350	1,700	13,500	172
3-1/2	2,000	2,350	1,700	17,000	192
4	2,000	2,350	1,700	24,000	229
5	2,000	2,350	1,700	30,000	254
6	2,000	2,350	1,700	45,000	312
6-L	2,000	2,350	1,700	59,000	357
8	2,000	2,350	1,700	94,000	451
10	2,000	2,350	1,700	119,500	509

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



RED BOX CASING & TUBING SYSTEM

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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 2250

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/ft)	
2	2.00	1.91	2.34	0.17	1.1	32	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.89	0.21	1.6	48	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.51	0.26	2.3	70	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.90	0.29	3.1	92	4" 8Rd EUE Long* TC
4	3.98	3.89	4.67	0.34	4.1	122	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	5.18	0.38	5.2	156	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	6.35	0.46	7.8	234	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	7.27	0.53	10.3	309	7-5/8" 8Rd Csg Long**IJ
8	7.84	7.75	9.18	0.67	17.1	513	9-5/8" 8Rd Csg Long**TC
10	8.85	8.76	10.37	0.76	21.9	657	10-3/4" 8Rd Csg***TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	2,250	2,600	2,400	7,000	117
2-1/2	2,250	2,600	2,400	10,500	144
3	2,250	2,600	2,400	15,500	176
3-1/2	2,250	2,600	2,400	19,500	195
4	2,250	2,600	2,400	28,000	233
5	2,250	2,600	2,400	34,500	259
6	2,250	2,600	2,400	51,500	318
6-L	2,250	2,600	2,400	67,500	363
8	2,250	2,600	2,400	107,500	459
10	2,250	2,600	2,400	137,500	518

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



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YELLOW BOX LINE PIPE SYSTEM



FUTURE PIPE INDUSTRIES, INC.

# YELLOW BOX 2500

FIBERGLASS LINEPIPE AND FITTINGS  
AROMATIC AMINE CURED EPOXY RESIN

Maximum service temperature is 212° F (100° C) \*\*

## DIMENSIONAL SPECIFICATIONS

February 2005

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall Thickness (inches)	Nominal Weight		Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
					(lbs/ft)	(lbs/t)	
2	2.00	1.91	2.38	0.19	1.2	36	2-3/8" 8Rd EUE Long*IJ
2-1/2	2.47	2.37	2.94	0.24	1.8	53	2-7/8" 8Rd EUE Long*IJ
3	3.00	2.90	3.57	0.29	2.7	80	3-1/2" 8Rd EUE Long*IJ
3-1/2	3.33	3.24	3.97	0.32	3.4	102	4" 8Rd EUE Long* TC
4	3.98	3.89	4.75	0.38	4.6	138	4-1/2" 8Rd EUE Long*IJ
5	4.42	4.33	5.27	0.43	5.8	174	5-1/2" 8Rd Csg Long**IJ
6	5.43	5.33	6.47	0.52	8.7	262	6-5/8" 8Rd Csg Long**IJ
6-L	6.21	6.11	7.40	0.60	11.7	352	7-5/8" 8Rd Csg Long**TC
8	7.84	7.75	9.35	0.75	19.1	574	9-5/8" 8Rd Csg Long**TC
10	8.85	8.76	10.55	0.85	24.6	737	10-3/4" 8Rd Csg***TC

Thread lengths may exceed API L4

## PERFORMANCE AND RATINGS (-60° F to +150° F) \*\*

30 ft Standard Joint Length

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Minimum Bending Radius (ft)
2	2,500	2,850	2,700	8,000	119
2-1/2	2,500	2,850	2,700	12,000	147
3	2,500	2,850	2,700	18,000	179
3-1/2	2,500	2,850	2,700	22,000	199
4	2,500	2,850	2,700	31,500	237
5	2,500	2,850	2,700	39,000	264
6	2,500	2,850	2,700	58,500	323
6-L	2,500	2,850	2,700	76,500	370
8	2,500	2,850	2,700	122,000	467
10	2,500	2,850	2,700	155,500	528

## MECHANICAL AND PHYSICAL PROPERTIES

PIPE BODY PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength, Hoop	40,000	psi	ASTM D1599
Tensile Strength, Axial	12,000	psi	ASTM D2105
Modulus of Elasticity, Axial	2.0	10 <sup>6</sup> psi	ASTM D2105
Long Term Hydrostatic Strength at 20 Years	19,109	psi	ASTM D2992 (B)
Specific Gravity	1.93	---	ASTM D792
Density	0.07	lbs/in <sup>3</sup>	ASTM D792
Thermal Conductivity	2.4	Btu/hr/ft <sup>2</sup> /in/° F	ASTM C177
Thermal Expansion Coefficient (Linear)	1.2	10 <sup>-5</sup> in/in/° F	ASTM D696
Flow Factor	150	---	Hazen Williams

\*\* De-rating required for service temperatures above 150° F (65° C)



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