FUTURE PIPE INDUSTRIES
Complete Pipe System Solutions

RED BOX 3000

FIBERGLASS TUBING, CASING, AND LINERS
AROMATIC AMINE CURED EPOXY RESIN

DIMENSIONAL SPECIFICATIONS

June, 2010

Nominal Size (inches)	Nominal I.D. (inches)	Minimum Drift Dia (inches)	Nominal O.D. (inches)	Nominal Wall (inches)	Pin Upset O.D. (inches)	Max Box OD* (inches)	Nominal Weight (lbs/ft)	Nominal Weight (lbs/jt)	Connection Type API 5B, Table 14*, 7**, 6*** Fourteenth Edition August 96
2-3/8	2.00	1.91	2.52	0.26	2.69	3.43	1.6	48	2-3/8" 8Rd EUE Long*IJ
2-7/8	2.47	2.37	3.12	0.33	3.19	3.93	2.4	73	2-7/8" 8Rd EUE Long*IJ
3-1/2	3.00	2.90	3.77	0.39	3.85	4.95	3.6	108	3-1/2" 8Rd EUE Long*IJ
4	3.33	3.24	4.19	0.43	4.35	5.21	4.6	137	4" 8Rd EUE Long* TC
4-1/2	3.98	3.89	5.03	0.52	5.60	7.02	7.0	211	5-1/2" 8Rd Csg Long**TC
5-1/2	4.42	4.33	5.57	0.58	5.60	6.67	8.0	240	5-1/2" 8Rd Csg Long**TC

*Depending on the application, smaller maximum box diameters are available.

Thread lengths may exceed API L4
30 ft Standard Joint Length

PERFORMANCE AND RATINGS (-60 deg F to +210 deg F **)

Nominal Size	Internal Pressure Rating (psi)	Mill Test Pressure (psi)	Collapse Rating (psi)	Axial Tension Rating (lbs)	Stretch vs Tension-Over-Pipe-Wt Stretch (ft) = Coeff. x P x L
2-3/8	3,000	3,350	3,500	17,500	0.178
2-7/8	3,000	3,350	3,500	24,000	0.115
3-1/2	3,000	3,350	3,400	32,000	0.081
4	3,000	3,350	3,400	41,500	0.066
4-1/2	3,000	3,350	3,500	60,000	0.045
5-1/2	3,000	3,350	3,500	60,000	0.037

Where: P = Tensile Load (1,000 lbs)
L = String Length (1,000 ft)

MECHANICAL & PHYSICAL PROPERTIES

TUBING/CASING BODY PROPERTIES	UNIT	VALUE 2-3/8 - 10-3/4	VALUE 11-3/4 - 20	TEST METHOD
Tensile Strength, Hoop	psi	31,300	31,300	ASTM D1599
Tensile Strength, Axial	psi	30,000	20,000	ASTM D2105
Modulus of Elasticity, Axial	10E+06 psi	3.0	2.0	ASTM D2105
Specific Gravity	---	1.9	1.9	ASTM D792
Density	lbs/in^3	0.07	0.07	ASTM D792
Thermal Conductivity	$Btu/hr/ft^2/in/degF$	2.4	2.4	ASTM C177
Thermal Expansion Coefficient (Linear)	10E-05in/in/degF	1.1	1.2	ASTM D696
Flow Factor	---	150	150	Hazen Williams

ISO 9001 CERTIFIED FIRM

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