

## RED BOX 1750

**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		Connection Type API 5B, Table 14*, 7***, 6*** Fourteenth Edition August 96
							(lbs/ft)	(lbs/ft)	
2-3/8	2.00	1.91	2.29	0.15	2.69	3.43	0.9	28	2-3/8" 8Rd EUE Long*IJ
2-7/8	2.47	2.37	2.83	0.18	3.19	3.93	1.4	41	2-7/8" 8Rd EUE Long*IJ
3-1/2	3.00	2.90	3.44	0.22	3.85	4.82	2.1	62	3-1/2" 8Rd EUE Long*IJ
4	3.33	3.24	3.81	0.24	4.35	5.05	2.6	79	4" 8Rd EUE Long* TC
4-1/2	3.98	3.89	4.57	0.29	4.85	5.75	3.5	105	4-1/2" 8Rd EUE Long*IJ
5-1/2	4.42	4.33	5.06	0.32	5.60	7.20	4.5	136	5-1/2" 8Rd Csg Long*IJ
6-5/8	5.43	5.33	6.21	0.39	6.73	8.51	6.8	204	6-5/8" 8Rd Csg Long**IJ
7	6.21	6.11	7.11	0.45	7.10	8.61	8.4	251	7" 8Rd Csg Long**IJ
7-5/8	6.21	6.11	7.11	0.45	7.73	10.03	9.2	275	7-5/8" 8Rd Csg Long**IJ
9-5/8	7.84	7.75	8.98	0.57	9.73	12.66	14.7	442	9-5/8" 8Rd Csg*** IJ
10-3/4	8.85	8.76	10.12	0.64	10.85	14.75	19.2	576	10-3/4" 8Rd Csg***IJ
11-3/4	10.72	10.62	12.11	0.70	12.65	15.10	25.2	756	11-3/4 8/6Rd L Csg TC
13-3/8	11.97	11.87	13.53	0.78	14.19	17.30	32.3	969	13-3/8 8/6Rd L Csg TC
16	14.48	14.39	16.37	0.95	16.33	19.10	42.8	1,284	16" 6Rd Csg TC

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

Thread lengths may exceed API L4

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

30 ft Standard Joint Length

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	1,750	2,100	1,600	15,000	0.333
2-7/8	1,750	2,100	1,600	22,500	0.217
3-1/2	1,750	2,100	1,600	32,000	0.148
4	1,750	2,100	1,500	40,000	0.126
4-1/2	1,750	2,100	1,600	46,500	0.084
5-1/2	1,750	2,100	1,500	55,500	0.072
6-5/8	1,750	2,100	1,600	72,500	0.047
7	1,750	2,100	1,600	76,500	0.035
7-5/8	1,750	2,100	1,600	86,500	0.035
9-5/8	1,750	2,100	1,600	140,500	0.022
10-3/4	1,750	2,100	1,500	161,500	0.018
11-3/4	1,750	2,100	1,200	192,500	0.020
13-3/8	1,750	2,100	1,200	233,000	0.016
16	1,750	2,100	1,200	290,500	0.011

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 <sup>3</sup>	0.07	0.07	ASTM D792
Thermal Conductivity	Btu/hr/ft <sup>2</sup> /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