

WEIGHT-IN POUNDS PER FOOT OF LENGTH

THICKNESS		OUTSIDE DIAMETER IN INCHES												
In.	Near- est B. W. G.	1½	2	2¼	2½	3	3½	4	4½	5	5½	5¾	6	6
0.095	13	1.68	1.93	2.19	2.44	...	...	...	...	...	...	...	...	...
0.110	12	1.93	2.22	2.51	2.81	3.40	...	...	...	...	...	...	...	...
0.125	11	2.17	2.50	2.84	3.17	3.84	4.51	...	...	...	...	...	...	...
0.135	10	2.33	2.69	3.05	3.41	4.13	4.85	5.57	...	...	...	...	...	...
0.150	9	2.56	2.96	3.36	3.76	4.57	5.37	6.17	6.97	7.77	8.17	8.37	8.57	9.37
0.165	8	...	...	...	4.11	5.00	5.88	6.76	7.64	8.52	8.96	9.18	9.40	10.28
0.180	7	...	...	...	4.46	5.42	6.38	7.34	8.30	9.27	9.75	9.99	10.23	11.19

*NOTE. It is regular practice of National Tube Company to furnish for locomotive purposes sizes larger than 3" O.D. in Seamless only.

12. *Permissible Variations.* The weight of the tubes shall not vary more than 5 per cent. from that specified in Section 11.

V. WORKMANSHIP AND FINISH

13. *Workmanship.* The finished tubes shall be circular within 0.02 inch, and the mean outside diameter shall not vary more than 0.015 inch from the size ordered. The thickness at any point shall not vary more than 10 per cent. from that specified. The length shall not be less, but may be 0.125 inch more than that ordered.

14. *Finish.* The finished tubes shall be free from injurious defects and shall have a workmanlike finish. They shall be free from kinks, bends and buckles.

VI. MARKING

15. *Marking.* The name of the manufacturer and "Tested at 1,000 pounds" for tubes under 5 inches in diameter, or "Tested at 800 pounds," for tubes 5 inches in diameter or over, shall be legibly stenciled in white on each tube.

VII. INSPECTION AND REJECTION

16. *Inspection.* The inspector representing the purchaser shall have free entry, at all times while work on the contract of the purchaser is being performed, to all parts of the manufacturer's works which concern the manufacture of the tubes ordered. The manufacturer shall afford the inspector, free of cost, all reasonable facilities to satisfy him that the tubes are