



STANDARD SPECIFICATIONS AND TOLERANCES FOR

23/5/3 CARDED AMERICAN TIRE CORD¹

A.S.T.M. Designation: D 298 - 29

These specifications are issued under the fixed designation D 298; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

ISSUED AS TENTATIVE, 1928; ADOPTED, 1929.

1. These specifications are intended to cover the requirements Scope. of a tire cord of 23/5/3 construction made from carded American cotton. The tolerances of these specifications are based on the tolerances in the Standard Specifications for Tolerances and Test Methods for Tire Cord, Woven and on Cones (A.S.T.M. Designation: D 179) of the American Society for Testing Materials.²

NOTE.—It is recognized that manufacturers and consumers each have their own theories as to certain characteristics which the cord should have but these specifications are offered as a standard for those seeking a general all-around cord of this type.

2. The cord shall be that known in the trade as 23/5/3 construction. Construction. The actual size of the single yarn shall be so adjusted as to give the finished size of cord specified.

3. These specifications are based on cord made from American Cotton. Middling cotton of good hard character with a staple length of $1\frac{1}{8}$ in. Yarns shall be single carded.

4. The cord shall be wound on cones to the dimensions and Put-up. yardage specified in the purchase contract, or if woven into tire-cord fabric shall conform to the contract specifications.

PROPERTIES

5. The average tensile strength of the cord, conditioned, as Tensile Strength. determined by test shall not be less than 15.0 lb.

6. The average elongation or stretch of the cord, conditioned, as Elongation determined by test, taken at the 10-lb. load shall be 12.5 per cent in the case of cord on cones and 14.0 per cent in the case of cord from fabrics, subject to a permissible variation of plus or minus 10 per cent

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee D-13 on Textile Materials.

² See p. 1083.