



STANDARD SPECIFICATIONS
FOR
TOLERANCES AND TEST METHODS FOR ELECTRICAL
COTTON YARNS¹

A.S.T.M. Designation: D 203 - 33

These specifications are issued under the fixed designation D 203; 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, 1924; ADOPTED IN AMENDED FORM, 1925; REVISED, 1933.

Scope

1. These specifications cover the tolerances and methods of testing for electrical cotton yarns, both single and multiple wound.

TOLERANCES

Strength

2. The average tensile strength of each case or bale of yarn, either single or plied, as determined by test shall be not less than the specified strength.

Size or Yarn Number

3. The average size of each case or bale of yarn, in the singles, either carded or combed, as determined by test shall not be more than 3 per cent over or under the specified size.

Example.—No. 36 carded yarn specified; tolerance would allow 34.92 to 37.08.

Twist

4. *Direction of Twist.*—The direction of twist shall be as defined in the Tentative Definitions and Terms Relating to Textile Materials (A.S.T.M. Designation: D 123 - 33 T) of the American Society for Testing Materials, as follows:

Twist, Direction of.—In the case of yarn or cord, the yarn or cord has right-hand or regular twist if when it is held vertically the spirals or twists are seen to incline upward in a right-hand direction and has left-hand or reverse twist when the spirals or twists are seen to incline upward in a left-hand direction.

NOTE.—Attention is called to the fact that this definition of twist is opposite to that used in sewing thread manufacture.

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.