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DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
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UNITED STATES GOVERNMENT MASTER SPECIFICATION FOR
ROPE, COTTON

FEDERAL SPECIFICATIONS BOARD SPECIFICATION No. 447

This specification was officially promulgated by the Federal Specifications Board on November 22, 1926, for the use of the departments and independent establishments of the Government in the purchase of cotton rope.

[The latest date on which the technical requirements of this specification shall become mandatory for all departments and independent establishments of the Government is February 23, 1927. They may be put into effect, however, at any earlier date after promulgation]

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I. GENERAL SPECIFICATIONS

There are no general specifications applicable to this specification.

II. GRADE

Cotton rope shall be of but one grade.

III. MATERIAL AND WORKMANSHIP

Cotton rope shall be made of yarns which have been evenly twisted, not sized, and shall not have an excessive number of avoidable imperfections.

IV. GENERAL REQUIREMENTS

See Section V.

V. DETAIL REQUIREMENTS

Rope shall comply with the requirements of the following table:

Diameter ¹	Minimum feet per pound	Minimum breaking strength
<i>Inch</i>		<i>Pounds</i>
$\frac{1}{4}$	57	500
$\frac{3}{8}$	24	900
$\frac{1}{2}$	12	1,400

¹ A tolerance of $\pm 1/32$ inch will be permitted.

VI. METHOD OF INSPECTION AND TESTS

1. From each 1,000 pounds or fraction thereof of material offered for delivery a sample at least 20 feet long shall be taken for test purposes.

2. Tests may be made under prevailing atmospheric conditions except in cases of dispute where moisture is an influencing factor. Tests shall then be made upon material which has been conditioned for at least four hours at 70° F. and 65 per cent relative humidity.

3. Tensile-strength tests shall be made on an inclination balance type machine having smooth grips, of the drum type, 1 inch in diameter. The pulling drum shall travel at a uniform rate of 12 inches per minute under no load. The distance between the centers of the drums at the beginning of test shall be 10 inches. If a specimen breaks less than one-half inch from the point at which it touches the drum or at any point touching the drum, the result shall be disregarded. At least three results shall be averaged.

4. The diameter shall be determined at five points, at least 1 yard apart, by calipers and the results averaged.

5. In determining feet per pound, a specimen not less than 20 feet long, measured without tensioning, shall be weighed.

VII. PACKING AND MARKING

1. Packing shall be in accordance with commercial practice unless otherwise specified.

2. Shipments shall be marked with the name or trade-mark of the contractor and with the contract or order number.

VIII. NOTES

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