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DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
WASHINGTON

Letter
Circular
LC 122

(May 27, 1924)

MEMORANDUM ON SPECIMENS
FOR FIBER ROPE

If the tensile strength of fiber rope is to be measured in our laboratory, the specimen must have an eye spliced into each end. The load is applied by pins which pass through the eyes and rest on the heads of the testing machine.

The inside diameter of each eye should be between 5 and 12 inches. Three tucks should be taken, using the full strand followed, preferably, by two additional tucks with the strands reduced to about one-half size.

The length of the specimen between the inner ends of the splices should be between 5 and 6 feet. For the weight and chemical analysis a piece of rope 8 feet long must be submitted in addition to the spliced specimen.

If it is impracticable to furnish the spliced specimen, a sample 30 feet long may be submitted from which the spliced specimen, as well as the other specimen, can be prepared.

Owing to the large amount of work in our laboratories for the other Government departments, we are unable to splice and test samples of rope promptly. If the samples are spliced, the tests can, usually, be made and reported in a few days. The manufacturer is usually anxious to splice specimens.

We request your cooperation in expediting the work by submitting spliced specimens whenever practicable.

