

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 1142

SAMPLING AND CONDITIONING OF ROPES FOR TESTING

1st EDITION

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## BRIEF HISTORY

The ISO Recommendation R 1142, *Sampling and conditioning of ropes for testing*, was drawn up by Technical Committee ISO/TC 38, *Textiles*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of a Draft ISO Recommendation.

In April 1968, this Draft ISO Recommendation (No. 1347) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

|                |             |                       |
|----------------|-------------|-----------------------|
| Australia      | Ireland     | Romania               |
| Belgium        | Italy       | South Africa, Rep. of |
| Czechoslovakia | Japan       | Spain                 |
| Denmark        | Netherlands | Sweden                |
| France         | New Zealand | Switzerland           |
| Germany        | Norway      | Turkey                |
| Hungary        | Philippines | U.A.R.                |
| India          | Poland      | United Kingdom        |
| Iran           | Portugal    | U.S.S.R.              |

One Member Body opposed the approval of the Draft :

Brazil

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in November 1969, to accept it as an ISO RECOMMENDATION.

## SAMPLING AND CONDITIONING OF ROPES FOR TESTING

### 1. SCOPE

This ISO Recommendation specifies the conditions of sampling and conditioning of ropes for testing.

### 2. SAMPLING

Sampling should be as representative as possible of the lot of ropes subjected to the measurements and test.

The lot should be homogeneous, i.e. constituted of ropes of the same type and dimensions having undergone the same series of manufacturing operations, and in the same presentation for inspection.

The number of samples, to be taken at random, is as follows :

| Size of lots<br>(in metres) | Number of sample<br>lengths of rope |
|-----------------------------|-------------------------------------|
| Up to 2000                  | 1                                   |
| Each unit of 2000           | 1                                   |
| Any remainder               | 1                                   |

In the case of natural fibre ropes however, this number should be not less than one sample for each ten coils of rope.

### 3. TEST SPECIMENS

#### 3.1 Length

Take the length necessary for the different tests according to the type of tensile testing machine used.

#### 3.2 Number of test specimens

Take one test specimen from each sample length of rope.

#### 3.3 Sampling

Take the test specimen either from one of the ends of the sample, or from the middle of the sample when these are intended to be cut up. Take all necessary precautions to avoid the untwisting of the test specimens. If necessary, discard any ends which have become slightly untwisted.

### 4. CONDITIONING

In principle, the test specimen is subjected to the test after being kept spread out on a flat surface in ambient air. The characteristics of this atmosphere, as close as possible to the standard atmosphere, should be fixed by agreement between the interested parties.

In the case of dispute, further specimens should be tested after conditioning for a period of at least 48 hours in the standard atmosphere for testing (see ISO Recommendation R 139 \*, *Standard atmospheres for conditioning and testing textiles*).

\* 2nd edition—1967.