

Revised

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION
R 136**

SIMPLE TORSION TESTING OF STEEL WIRE

1st EDITION

October 1959

COPYRIGHT RESERVED

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 136, *Simple Torsion Testing of Steel Wire*, was drawn up by Technical Committee ISO/TC 17, *Steel*, the Secretariat of which is held by the British Standards Institution (B.S.I.).

The drawing up of an ISO recommendation concerning this test was decided on at the third meeting of Technical Committee ISO/TC 17, held in London, in December 1953, when the Technical Committee instructed its Working Group No. 1, *Methods of Mechanical Testing for Steel*, to prepare a draft proposal.

The draft proposal formulated by the Working Group was considered by the Technical Committee at its fifth meeting, held in London, in March 1957, and was adopted, subject to a number of small amendments, as a Draft ISO Recommendation.

On 11 July 1958, the Draft ISO Recommendation (No. 203), was distributed to all the ISO Member Bodies and was approved, subject to some modifications, by the following Member Bodies:

Australia	France	Norway
Austria	Germany	Poland
Belgium	Hungary	Rumania
Bulgaria	India	Spain
Burma	Israel	Sweden
Chile	Italy	Switzerland
Czechoslovakia	Japan	United Kingdom
Denmark	Netherlands	U.S.S.R.
Finland	New Zealand	Yugoslavia

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in October 1959, to accept it as an ISO RECOMMENDATION.

SIMPLE TORSION TESTING OF STEEL WIRE

1. SCOPE

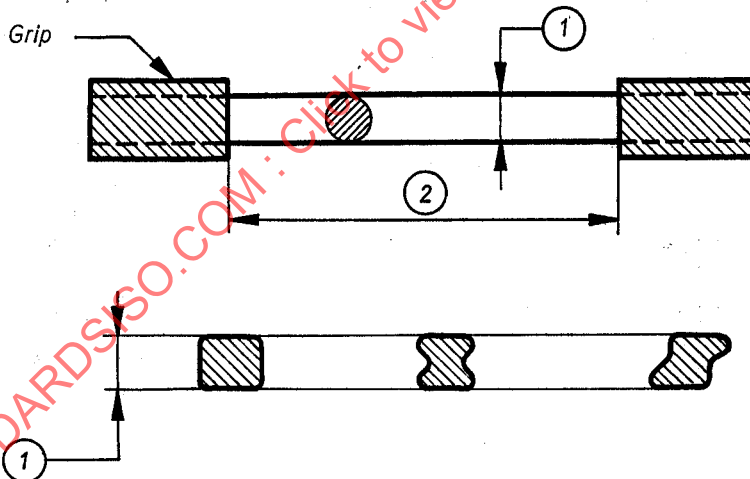
This ISO Recommendation applies to the simple torsion testing of steel wire of nominal sizes of 0.5 mm (0.02 in) and greater.

2. PRINCIPLE OF TEST

The test consists of twisting a test piece round its own axis until the test piece breaks or until the specified number of twists have been made. The twisting should be in the same direction during the test.

3. SYMBOLS AND DESIGNATIONS

Number	Symbol	Designation
1	d	Nominal size of wire
2	L	Free length between grips
—	Nt	Number of turns



4. TESTING MACHINE

- 4.1 The grips of the testing machine are arranged in such a way that, during testing, they remain on the same axis and do not apply any bending to the test piece.
- 4.2 The machine is so constructed that the change of length between the grips during the test is not prevented.
- 4.3 One of the grips should be capable of being rotated around the axis of the test piece while the other should not be subject to any angular deflection, except for such deflection as may be necessary to measure the torque.