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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 957

SIMPLE TORSION TEST

FOR ALUMINIUM AND ALUMINIUM ALLOY WIRE

1st EDITION

January 1969

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 957, *Simple torsion test for aluminium and aluminium alloy wire*, was drawn up by Technical Committee ISO/TC 79, *Light metals and their alloys*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led, in 1966, to the adoption of a Draft ISO Recommendation.

In March 1967, this Draft ISO Recommendation (No. 1137) 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 :

Belgium	Israel	Switzerland
Canada	Italy	Thailand
Chile	Japan	Turkey
Czechoslovakia	Netherlands	U.A.R.
France	New Zealand	United Kingdom
Germany	Norway	U.S.A.
Greece	Poland	U.S.S.R.
Hungary	South Africa, Rep. of	Yugoslavia
India	Sweden	

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 January 1969, to accept it as an ISO RECOMMENDATION.

ISO Recommendation R 957 January 1969

SIMPLE TORSION TEST

FOR ALUMINIUM AND ALUMINIUM ALLOY WIRE

1. SCOPE

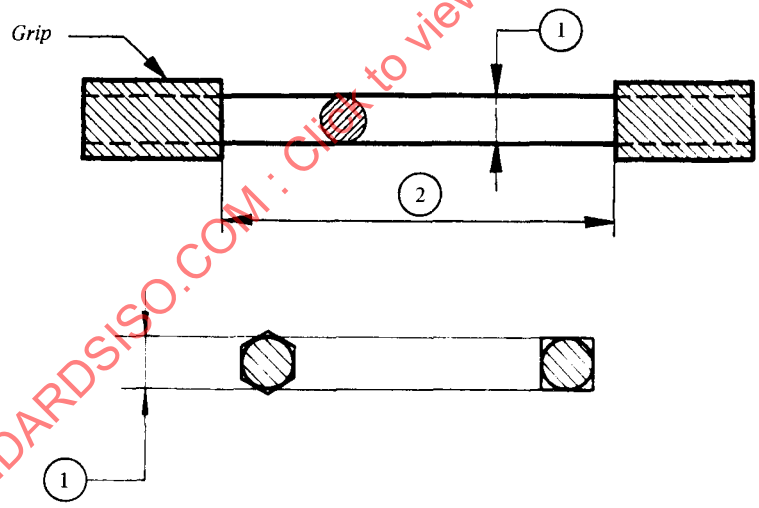
This ISO Recommendation applies to the simple torsion testing of aluminium and aluminium alloy wire of nominal diameter (if of circular cross-section) or diameter of inscribed circle (if of regular polygonal cross-section) 0.5 mm (0.02 in) and greater.

2. PRINCIPLE OF TEST

The test consists of twisting a test piece around its own axis until the test piece breaks, or until the specified number of twists has been made. The twisting should be in the same direction throughout the test. The test is carried out at ambient temperature unless otherwise agreed.

3. SYMBOLS AND DESIGNATIONS

Reference number	Symbol	Designation
1	d	Nominal size of wire
2	L	Length between grips
	N_t	Number of turns



4. TESTING MACHINE

4.1 The grips of the testing machine should be 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 should be 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 deflections as may be necessary to measure the torque.