

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1813

ANTISTATIC ENDLESS V-BELTS
(SECTIONS Y, Z, A, B, C, D, E)

ELECTRICAL CONDUCTIVITY
CHARACTERISTIC AND METHOD OF TEST

1st EDITION

April 1971

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BRIEF HISTORY

The ISO Recommendation R 1813, *Antistatic endless V-belts (Sections Y, Z, A, B, C, D, E) – Electrical conductivity – Characteristic and method of test*, was drawn up by Technical Committee ISO/TC 41, *Pulleys and belts (including V-belts)*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led to the adoption of Draft ISO Recommendation No. 1813, which was circulated to all the ISO Member Bodies for enquiry in March 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Greece	Portugal
Austria	Hungary	South Africa, Rep. of
Belgium	India	Spain
Brazil	Israel	Sweden
Czechoslovakia	Italy	Switzerland
Denmark	Netherlands	U.A.R.
Finland	Norway	United Kingdom
France	Peru	U.S.S.R.

The following Member Body opposed the approval of the Draft :

U.S.A.

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

ANTISTATIC ENDLESS V-BELTS (SECTIONS Y, Z, A, B, C, D, E)

ELECTRICAL CONDUCTIVITY CHARACTERISTIC AND METHOD OF TEST

1. SCOPE

This ISO Recommendation specifies the maximum electrical resistance of a classical antistatic endless V-belt for the sections Y, Z, A, B, C, D and E, and the corresponding laboratory method of measurement.

The test is intended to ensure that the belt is sufficiently conductive to dissipate charges of electricity which may form on it in service.

In principle, the application of this ISO Recommendation is limited to cases of contestation about new belts intended to be used in an explosive atmosphere or in situations where there is a fire risk.

In this case, the decision is left to national standards or agreement between parties as to whether the test should be carried out on each belt in a batch or on only a percentage of the batch.

2. CHARACTERISTIC

Designation	Characteristic	Method of test
Electrical resistance	$6 \times 10^5 \frac{L}{l} \Omega \text{ max.}$ <i>L</i> is the distance between the inner edges of the two electrodes <i>l</i> is the sum of the widths of the two driving surfaces of the belt	Section 3

3. METHOD OF TEST

3.1 Principle

Passage of an electrical current of specified voltage through a suitably prepared endless V-belt.