

TC 41

INTERNATIONAL STANDARD

**ISO
7590**

Second edition
1988-08-15



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Steel cord conveyor belts — Cover thickness measurement

Courroies transporteuses à câbles d'acier — Mesurage de l'épaisseur des revêtements

Reference number
ISO 7590: 1988 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7590 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

This second edition cancels and replaces the first edition (ISO 7590 : 1982), of which it constitutes a minor revision.

Steel cord conveyor belts — Cover thickness measurement

1 Scope

This International Standard specifies a method of measuring cover thickness of steel cord conveyor belts.

2 Principle

Measurement of the thickness of a specimen at a number of points specified according to the belt width before and after each of the covers has been removed. Calculation of cover thickness by subtraction.

3 Definitions

3.1 breaker : Reinforcement included in the cover layer.

3.2 weft : Transverse layer or layers included to reinforce the carcass of the belt and not regarded as part of the cover layer.

4 Equipment

Dial gauge micrometer, graduated every 0,1 mm, with flat feet, a circular foot of 10 mm in diameter and exerting a pressure of 22 kPa \pm 5 kPa on the sample.

5 Procedure

5.1 Sample

Take a specimen across the full width, with the following dimensions :

- width : approximately 50 mm
- length : equal to total belt width

5.2 Measurement points

Measure the thickness at the following number of points :

- belt width, $l < 1\ 000$ mm : 3 points
- belt width, $l > 1\ 000$ mm : 5 points

The measurement points shall be spaced equidistantly over the length of the specimen (i.e. the belt width).

5.3 Measurement of total thickness

Measure the total thickness d of the specimen at each of the points specified according to the width of the belt (see figure 1).

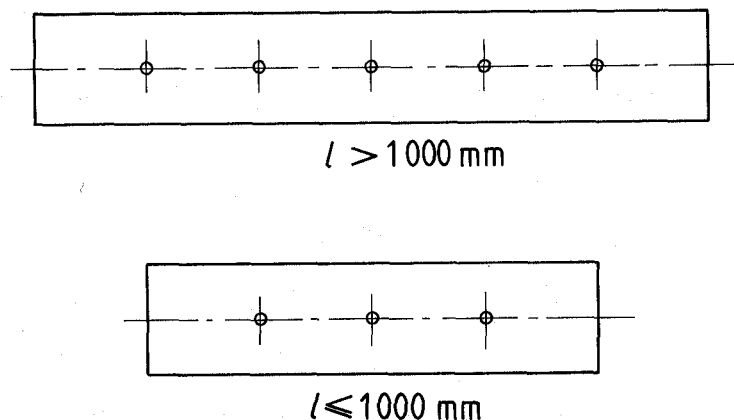


Figure 1 — Location of measurement points