International Standard 7590

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Steel cord conveyor belts — Cover thickness measurement

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Foreword

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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.

International Standard ISO 7590 was developed by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, and was circulated to the member bodies in August 1981.

It has been approved by the member bodies of the following countries :

Austria	Germany, F. R.	Romania
Brazil	India	South Africa, Rep. of
Canada	Italy	United Kingdom
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The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia
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Steel cord conveyor belts — Cover thickness measurement

1 Scope and field of application

This International Standard specifies a method of measurement of 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 have 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 not more than 10 mm in diameter and exerting a pressure of 20 ± 3 kPa on the sample.

5 Procedure

5.1 Sample

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

a) width : approx. 50 mm;

b) length : equal to total belt width.

5.2 Measurement points

Measure the thickness at the following number of points :

a) belt width, $l \leqslant 1\,000$ mm : 3 points

b) belt width, $l > 1\,000$ mm : 5 points

The measurement points must 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).

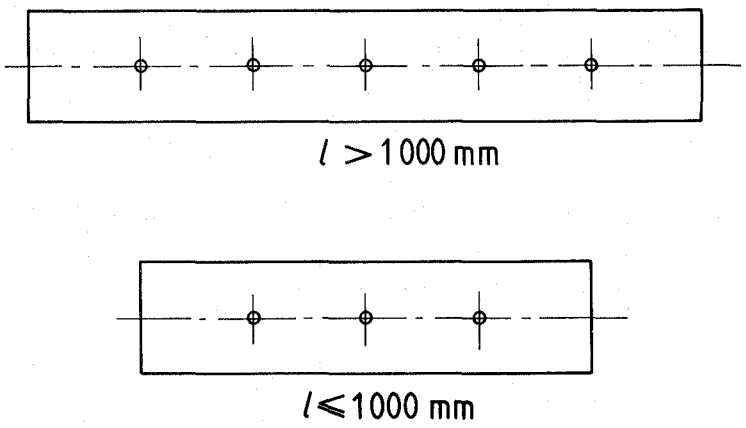

Figure 1 — Location of measurements points