
**Steel cord conveyor belts — Methods for
the determination of total thickness and
cover thickness**

*Courroies transporteuses à câbles d'acier — Méthodes de
détermination de l'épaisseur totale et de l'épaisseur des revêtements*



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Foreword

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ISO 7590 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This fifth edition cancels and replaces the fourth edition (ISO 7590:2001), which has been technically revised.

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Steel cord conveyor belts — Methods for the determination of total thickness and cover thickness

1 Scope

This International Standard specifies three methods for the measurement of total belt thickness and the thickness of covers of steel cord conveyor belts.

Methods A1 and A2 (micrometer methods) can be used for all steel cord conveyor belts for the measurement of both total belt thickness and cover thickness.

Method B (optical method) is recommended for the measurement of cover thickness only. It is not suitable if there is a textile or metal weft, nor if the ends of the steel cords become twisted when cut.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

breaker

reinforcement included in the cover

2.2

weft

transverse layer or layers included to reinforce the carcass of the belt and not regarded as part of the cover layer

3 Principle

The total thickness is measured using a micrometer at a number of specified points depending on belt width.

The cover thicknesses are measured either

- a) by removing the covers, taking further measurements at the same specified points and calculating each of the cover thicknesses by subtraction, or
- b) by direct measurement using an optical measuring instrument.

4 Apparatus

4.1 Dial gauge micrometer for methods A1 and A2

The instrument shall be graduated every 0,1 mm with flat feet and a circular foot of 10 mm in diameter that exerts a pressure of (22 ± 5) kPa on the test specimen.