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Conveyor belts - Method for the determination of the tear propagation resistance of textile conveyor belts (ISO 505:2025)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/25

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ICS 53.040.20 Supersedes EN ISO 505:2017

English Version

Conveyor belts - Method for the determination of the tear propagation resistance of textile conveyor belts (ISO 505:2025)

Courroies transporteuses - Méthode de détermination de la résistance à la propagation d'une déchirure dans les courroies transporteuses à carcasse textile (ISO 505:2025)

Fördergurte - Verfahren zur Bestimmung der Weiterreißfestigkeit von Textil-Fördergurten (ISO 505:2025)

This European Standard was approved by CEN on 26 March 2025.

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Ref. No. EN ISO 505:2025 E

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European foreword

This document (EN ISO 505:2025) has been prepared by Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)" in collaboration with Technical Committee CEN/TC 188 “Conveyor belts” the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

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Endorsement notice

The text of ISO 505:2025 has been approved by CEN as EN ISO 505:2025 without any modification.

International Standard

ISO 505

Conveyor belts — Method for the determination of the tear propagation resistance of textile conveyor belts

Courroies transporteuses — Méthode de détermination de la résistance à la propagation d'une déchirure dans les courroies transporteuses à carcasse textile

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC41 *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 188, *Conveyor belts*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 505:2017), which has been technically revised.

The main changes are as follows:

— inclusion of an explanation on sample length and cutting length (see 6.2);

— removal of atmosphere A, only retaining atmosphere B, C, D and E which are specified in ISO 18573 (see 7.1);

— revision of Figure 1,2,3 and 4.

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International Standard **ISO 505:2025(en)**

Conveyor belts — Method for the determination of the tear propagation resistance of textile conveyor belts

1 Scope

This document specifies a method of test for the measurement of the propagation resistance of an initial tear in textile conveyor belts, either in full thickness or of the carcass only.

This document is applicable to textile belts in installations where there is a risk of longitudinal tearing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6133, *Rubber and plastics — Analysis of multi-peak traces obtained in determinations of tear strength and adhesion strength*

ISO 18573, *Conveyor belts — Test atmospheres and conditioning periods*