International Standard

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Conveyor belts — Determination of strength of mechanical fastenings for textile conveyor belts— Static test method

Courroies transporteuses — Détermination de la résistance des assemblages agrafés pour les courroies transporteuses à carcasse textile — Méthode d'essai statique

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Foreword

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This document was prepared by Technical Committee ISO/TC 41, *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 1120:2012), which has been technically revised.

The main changes are as follows:

— revision of normative references;

— revision of Figure 1 and Figure 2;

— clarification of evaluation criteria for sample failure in Clause 4;

— deletion of the limits of the fastening width in Clause 6.2.

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Conveyor belts — Determination of strength of mechanical fastenings for textile conveyor belts— Static test method

1 Scope

This document specifies a static test method for measuring the strength of a conveyor belt mechanical fastening; the mechanical joints can be either of the type employing a connecting rod or of a type which does not employ a connecting rod.

This document does not cover vulcanized joints.

This document is neither applicable to nor valid for light conveyor belts, as described in ISO 21183-1.

NOTE The purpose of the test specified in this document is to eliminate mechanical fastenings of insufficient static strength. It is intended to establish a dynamic test at a later date.

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 283, *Textile conveyor belts — Full thickness tensile strength, elongation at break and elongation at the reference load — Test method*

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

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
width of fastening
number of units multiplied by the pitch, or number of fastener plates multiplied by the pitch

3.2
pitch
distance between a point on a unit or fastener plate and the corresponding point on the next unit or fastener plate, according to the type of fastening

Note 1 to entry: See Figure 1.

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