Steel cord conveyor belts - Part 3: Special safety requirements for belts for use in underground installations (ISO 15236-3:2017)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 15236-3:2017) 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of an identical text or by endorsement, at the latest by October 2017, and conflicting national standards shall be withdrawn at the latest by October 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 15236-3:2007.

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Endorsement notice

The text of ISO 15236-3:2017 has been approved by CEN as EN ISO 15236-3:2017 without any modification.

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Foreword

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

This second edition cancels and replaces the first edition (ISO 15236-3:2007), of which it constitutes a minor revision with the following changes:

- the references have been updated;
- Table 3 has been expanded to include belt widths from 1 800 to 3 200.

A list of all parts in the ISO 15236 series can be found on the ISO website.

Steel cord conveyor belts —

Part 3:

Special safety requirements for belts for use in underground installations

1 Scope

This document specifies the performance and constructional requirements applicable to conveyor belts for underground mining having steel cords in the longitudinal direction as reinforcement. The requirements for design and construction apply to the design of single belts, as well as the design of complete type series such as those covered in ISO 15236-2.

Steel cord belts in accordance with this document are intended for use underground in coal mines and in other applications where the highest demands for safety against fire and explosion hazards have to be complied with.

NOTE At present, the requirements can only be met by the use of compounds based on chloroprene rubber for the covers, as well as for the bonding rubber.

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 indicated applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 37, Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties

ISO 703, Conveyor belts — Transverse flexibility (troughability) — Test method

ISO 2062, Textiles — Yarns from packages — Determination of single-end breaking force and elongation at break

ISO 4649, Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device

ISO 7590, Steel cord conveyor belts — Methods for the determination of total thickness and cover thickness

ISO 7622-2, Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength

ISO 7623, Steel cord conveyor belts — Cord-to-coating bond test — Initial test and after thermal treatment

ISO 8094, Steel cord conveyor belts — Adhesion strength test of the cover to the core layer

EN 13827, Steel cord conveyor belts — Determination of the lateral and vertical displacement of steel cords

EN 14973, Conveyor belts for use in underground installations — Electrical and flammability safety requirements

3 Terms and definitions

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