BS EN ISO 22721:2023

BSI Standards Publication

Conveyor belts — Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining

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National foreword

This British Standard is the UK implementation of EN ISO 22721:2023. It is identical to ISO 22721:2023. It supersedes BS EN ISO 22721:2007, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/67, Conveyor belts.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Conveyor belts - Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining (ISO 22721:2023)

Courroies transporteuses - Spécification pour courroies transporteuses à structure textile recouvertes de caoutchouc ou de plastique, pour utilisation dans les mines souterraines (ISO 22721:2023)

Fördergurte - Anforderungen an Textilfördergurte mit Gummi- oder Kunststoff-Deckplatten für Anwendungen unter Tage (ISO 22721:2023)

This European Standard was approved by CEN on 27 July 2023.

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European foreword

This document (EN ISO 22721:2023) 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of an identical text or by endorsement, at the latest by February 2024, and conflicting national standards shall be withdrawn at the latest by February 2024.

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

This document supersedes EN ISO 22721:2007.

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Endorsement notice

The text of ISO 22721:2023 has been approved by CEN as EN ISO 22721:2023 without any modification.

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Document Sharing Hub

Full document details: BS EN ISO 22721:2023

Contents

Page

Foreword ... **iv**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **2**
4 Construction ... **2**
5 Length ... **3**
6 Width ... **3**
7 Rubber cover ... **4**
8 Tolerances on total belt thickness and cover thickness ... **4**
8.1 Tolerance on total belt thickness ... 4
8.2 Tolerance on cover thickness ... 4
9 Transverse fabric joints in multi-ply belting ... **5**
9.1 General ... 5
9.2 Outer plies ... 5
9.3 Inner plies ... 5
9.4 Adjacent plies and non-adjacent plies ... 5
9.5 Joints in same ply ... 5
9.6 Mono-ply, duo-ply and solid woven belting ... 5
10 Longitudinal fabric joints ... **5**
10.1 Multi-ply belting ... 5
10.1.1 Spacing of joints ... 5
10.1.2 Number of joints ... 5
10.2 Fabric joints in duo-ply belting ... 6
10.3 Longitudinal joints in solid woven and mono-ply belting ... 6
11 Elongation ... **6**
12 Full thickness tensile strength ... **6**
13 Adhesion ... **6**
14 Troughability ... **7**
15 Sampling ... **7**
16 Designation ... **7**
17 Marking ... **8**
Annex A (informative) **Items to be agreed between manufacturer and purchaser** ... **10**
Annex B (informative) **Helpful information to be supplied by the purchaser** ... **11**
Annex C (informative) **Lateral drift (straight running)** ... **13**
Bibliography ... **14**

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Full document details: BS EN ISO 22721:2023

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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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 second edition cancels and replaces first edition (ISO 22721:2007), which has been technically revised.

The main changes are as follows:

— the warning before the Scope was removed;

— the footnote and related widths were removed from Table 3;

— editorial changes were done.

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Conveyor belts — Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining

1 Scope

This document specifies requirements for rubber- or plastics-covered conveyor belting of textile construction for use in underground mines and disposed on flat or troughed idlers. It is not applicable to light conveyor belts as described in ISO 21183-1.

This document does not include requirements for plastics covers. These are agreed upon by the manufacturer and purchaser, taking into account the type of plastics to be used.

Related items that are not requirements of this document, but which it is recommended be agreed upon by the manufacturer and purchaser, are included in Annex A.

Details recommended to be supplied by the purchaser of belting with an enquiry are given in Annex B.

The ability of a belt to run straight cannot be assessed until the belt is installed. Requirements for this are, therefore, outside the scope of this document; nevertheless, recommendations for lateral drift are given in Annex C.

Attention is drawn to local regulations for safety which might be in place where the belts are to be used.

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

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

ISO 252, *Conveyor belts — Adhesion between constitutive elements — Test methods*

ISO 282, *Conveyor belts — Sampling*

ISO 283, *Conveyor belts — Full thickness tensile strength, elongation at break and elongation at the reference force — Test method*

ISO 583, *Conveyor belts with a textile carcass — Total belt thickness and thickness of constitutive elements — Test methods*

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

ISO 1120, *Conveyor belts — Determination of strength of mechanical fastenings — Static test method*

ISO 4649:2017, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

ISO 16851, *Textile conveyor belts — Determination of the net length of an endless (spliced) conveyor belt*

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

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