

This document is a preview generated by EVS

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

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

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

<p>Käesolev Eesti standard EVS-EN ISO 22721:2008 sisaldab Euroopa standardi EN ISO 22721:2007 ingliskeelset teksti.</p>	<p>This Estonian standard EVS-EN ISO 22721:2008 consists of the English text of the European standard EN ISO 22721:2007.</p>
<p>Standard on kinnitatud Eesti Standardikeskuse 28.01.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p>	<p>This standard is ratified with the order of Estonian Centre for Standardisation dated 28.01.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p>
<p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .</p>	<p>Date of Availability of the European standard text .</p>
<p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>The standard is available from Estonian standardisation organisation.</p>

ICS 53.040.20, 73.100.40

Võtmesõnad:

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

EUROPEAN STANDARD

EN ISO 22721

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2007

ICS 53.040.20; 73.100.40

English Version

**Conveyor belts - Specification for rubber- or plastics-covered
conveyor belts of textile construction for underground mining
(ISO 22721:2007)**

Courroies transporteuses - Spécification pour courroies
transporteuses à structure textile recouvertes de
caoutchouc ou de plastique, pour utilisation dans les mines
souterraines (ISO 22721:2007)

Fördergurte - Anforderungen an Textilfördergurte mit
Gummi- oder Kunststoff-Deckplatten für Anwendungen
unter Tage (ISO 22721:2007)

This European Standard was approved by CEN on 20 June 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 22721:2007) has been prepared by Technical Committee CEN/TC 188 "Conveyor belts", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)".

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 January 2008, and conflicting national standards shall be withdrawn at the latest by January 2008.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
4 Construction.....	3
5 Length	3
6 Width	4
7 Rubber cover.....	4
8 Tolerances on total belt thickness and cover thickness	5
9 Transverse fabric joints in multi-ply belting	6
10 Longitudinal fabric joints.....	6
11 Elongation	7
12 Full thickness tensile strength	7
13 Adhesion.....	8
14 Troughability	8
15 Sampling.....	9
16 Designation	9
17 Identification.....	10
Annex A (informative) Items to be agreed between manufacturer and purchaser.....	11
Annex B (informative) Helpful information to be supplied by the purchaser	12
Annex C (informative) Lateral drift (straight running)	14
Bibliography	15

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

WARNING — Users of this International Standard should be aware that relevant electrical and flammability safety requirements are given in EN 14973, which specifies safety classes for belts intended for use in underground installations. When contracts are entered into for the purchase of belts for use in underground mining, compliance with both this International Standard and the relevant class in EN 14973 should be specified. Attention is drawn to local regulations for safety which might be in place where the belts are to be used.

1 Scope

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

This International Standard does not include requirements for plastics covers. These will need to be 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 International Standard, 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 International Standard; nevertheless, recommendations for lateral drift are given in Annex C.

2 Normative references

The following referenced documents are indispensable for the application 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*¹⁾

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

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

ISO 4649:2002, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

ISO 10247, *Conveyor belts — Characteristics of covers — Classification*

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

EN 14973:2006, *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.

**3.1
slab belting**
conveyor belting made in wide widths and long lengths for subsequent slitting and cutting into narrower widths and shorter lengths to suit individual conveyor installations

**3.2
solid woven belting**
conveyor belting consisting of a carcass of more than one ply, the plies being interlocked in the weave or bound together by binding threads in the course of weaving

**3.3
mono-ply belting**
conveyor belting with a carcass consisting of one ply of woven textile fabric

**3.4
duo-ply belting**
conveyor belting with a carcass consisting of two plies of woven textile fabric bonded together by an intermediate layer of elastomer of sufficient thickness to allow the incorporation of a tension element in the joint

**3.5
multi-ply belting**
conveyor belting with a carcass of two or more plies of woven textile fabric, the adjacent plies being bonded together by an intermediate layer of elastomer

**3.6
primary yarn**
load-carrying yarn which contributes more than 50 % of the full thickness tensile strength

**3.7
secondary yarn**
load-carrying yarn which contributes less than 50 % of the full thickness tensile strength

1) To be published. (Revision of ISO 583-1:1999 and ISO 583:1990)