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Textile conveyor belts - Full thickness tensile strength,
elongation at break and elongation at the reference load
- Test method (ISO 283:2015)

ESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 283:2015 sisaldab Euroopa standardi EN ISO 283:2015 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 283:2015 consists of the English text of the European standard EN ISO 283:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 53.040.20

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 283

November 2015

ICS 53.040.20

Supersedes EN ISO 283:2007

English Version

Textile conveyor belts - Full thickness tensile strength,
elongation at break and elongation at the reference load -
Test method (ISO 283:2015)

Courroies transporteuses à carcasse textile -
Résistance à la traction, allongement à la rupture et
allongement sous force de référence en pleine
épaisseur - Méthode d'essai (ISO 283:2015)

Textilfördergurte - Zugfestigkeit bei voller Gurtdicke,
Bruchdehnung und Dehnung bei breitenbezogener
Bruchkraft - Prüfverfahren (ISO 283:2015)

This European Standard was approved by CEN on 24 October 2015.

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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 283:2015) 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of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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 283:2007.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 283:2015 has been approved by CEN as EN ISO 283:2015 without any modification.

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
6 Test pieces	3
6.1 Shape and dimensions	3
6.2 Method of selection of test pieces	3
6.3 Preparation of test pieces	6
6.4 Number of test pieces	6
6.5 Conditioning of test pieces	6
7 Procedure	6
8 Calculation and expression of results	6
8.1 Tensile strength	6
8.2 Elongation	7
8.2.1 Elongation at break	7
8.2.2 Elongation at reference force (see 3.5)	7
9 Test report	7
Bibliography	9

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 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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This fourth edition cancels and replaces the third edition (ISO 283:2007), which has been technically revised.

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

1 Scope

This International Standard specifies a test method for the determination of the full thickness tensile strength in the longitudinal direction and the elongation at the reference force and breaking point of conveyor belts having a textile carcass. The method can also be used for the determination of full thickness tensile strength in the transverse direction and the elongation at the breaking point, for use when the manufacturer is requested by the purchaser to state values for these properties.

This International Standard is not suitable or valid for light conveyor belts as described in ISO 21183-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

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.

3.1

tensile strength

greatest measured force during the tensile test divided by the width of the test piece

Note 1 to entry: It is expressed in N/mm.

3.2

nominal tensile strength

specified minimum value of the tensile strength

Note 1 to entry: It is expressed in N/mm.

3.3

reference force

reference load

one-tenth of the nominal tensile strength in the longitudinal direction multiplied by the width of the test piece in mm

EXAMPLE Nominal tensile strength = 1 600 N/mm; one tenth of the nominal tensile strength = 160 N/mm; reference force for 25 mm test piece = 25 mm × 160 N/mm = 4 000 N.

Note 1 to entry: It is expressed in N/mm.