SLOVENSKI STANDARD
SIST EN ISO 21180:2007

01-april-2007

Naprave za kontinuirni transport ï Lahki trakovi traļ nih transporterjev ï Ugotavljanje najveļ je natezne trdnosti (ISO 21180:2005)

Light conveyor belts - Determination of the maximum tensile strength (ISO 21180:2005)

Leichte Fördergurte - Bestimmung der maximalen Zugfestigkeit (ISO 21180:2005)

Courrroies transporteuses légeres - Détermination de la résistance maximale a la traction (ISO 21180:2005)

Ta slovenski standard je istoveten z: EN ISO 21180:2006

ICS:

53.040.20 Deli za transporterje Components for conveyors

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English Version

Light conveyor belts - Determination of the maximum tensile strength (ISO 21180:2005)

Courrroies transporteuses légères - Détermination de la résistance maximale à la traction (ISO 21180:2005)

Leichte Fördergurte - Bestimmung der maximalen Zugfestigkeit (ISO 21180:2005)

This European Standard was approved by CEN on 21 October 2006.

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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 Central Secretariat has the same status as the official versions.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

The text of ISO 21180:2005 has been prepared by Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 21180:2006 by Technical Committee CEN/TC 188 "Conveyor belts", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by May 2007.

This document supersedes EN 1722:1999.

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Endorsement notice

The text of ISO 21180:2005 has been approved by CEN as EN ISO 21180:2006 without any modifications.

INTERNATIONAL STANDARD

ISO 21180

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Light conveyor belts — Determination of the maximum tensile strength

Courrroies transporteuses légères — Détermination de la résistance maximale à la traction

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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

ISO 21180 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This International Standard is based on EN 1722:1999, prepared by CEN/TC 188.

Light conveyor belts — Determination of the maximum tensile strength

1 Scope

This International Standard specifies a test method for the determination of the maximum tensile strength of light conveyor belts according to ISO 21183-1, or of other conveyor belts where ISO 283 is not applicable.

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 283[1)], *Textile conveyor belts — Full thickness tensile strength, elongation at break and elongation at the reference load — Test method*

ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

ISO 18573:2003, *Conveyor belts — Test atmospheres and conditioning periods*

ISO 21183-1, *Light conveyor belts — Part 1: Principal characteristics and applications*

3 Terms and definitions

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

3.1
tensile load
force per unit of belt width, expressed in newtons per millimetre

NOTE 1 In light conveyor belt technology, the definition of tensile load deviates from that commonly used. It is measured in force per unit of belt width in newtons per millimetre, whilst normally it is defined as a stress, i.e. a force per unit of cross section, in newtons per square millimetre.

NOTE 2 In light conveyor belt technology, the symbol for the tensile load is k and the maximum tensile strength is designated as k_{max}, expressed in newtons per millimetre

NOTE 3 In EN 10002-1:2001, the symbol k is used to represent the coefficient of proportionality.

1) To be published. (Revision of ISO 283-1:2000)