



SLOVENSKI STANDARD SIST EN ISO 21179:2007

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Light conveyor belts - Determination of the electrostatic field generated by a running light conveyor belt (ISO 21179:2005)

Leichte Fördergurte - Bestimmung des elektrostatischen Feldes von laufenden, leichten Fördergurten (ISO 21179:2005)

Courroies transporteuses légères - Détermination du champ électrostatique engendré par une courroie transporteuse légère en marche (ISO 21179:2005)

Ta slovenski standard je istoveten z: EN ISO 21179:2006

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST EN ISO 21179:2007 en

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English Version

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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.

CEN members are the national standards bodies of Austria, Belgium, 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.

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

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

Foreword

The text of ISO 21179:2005 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 21179:2006 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of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by May 2007.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 1718:1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

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The text of ISO 21179:2005 has been approved by CEN as EN ISO 21179:2006 without any modifications.

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**Light conveyor belts — Determination of
the electrostatic field generated by a
running light conveyor belt**

*Courroies transporteuses légères — Détermination du champ
électrostatique engendré par une courroie transporteuse légère en
marche*

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Fax + 41 22 749 09 47
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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.

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

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 21179 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 1718:1999, prepared by CEN/TC 188.

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Light conveyor belts — Determination of the electrostatic field generated by a running light conveyor belt

1 Scope

This International Standard specifies a test method for the determination of the electrostatic field generated by a running light conveyor belt according to ISO 21183-1.

This dynamic procedure is required because the antistatic behaviour of light conveyor belts cannot in many cases be sufficiently described by measurement of the electrical resistances in accordance with ISO 21178.

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 22, *Belt drives — Flat transmission belts and corresponding pulleys — Dimensions and tolerances*

ISO 4287, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

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

ISO 21178, *Light conveyor belts — Determination of electrical resistances*

ISO 21181, *Light conveyor belts — Determination of the relaxed elastic modulus*

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

3 Principle

The test piece is run under specified conditions and produces an electrostatic field, the variation of which with time is recorded.

The test is carried out successively with both sides of the belt in contact with the pulleys.

4 Apparatus (see Figure 1)

4.1 Pair of pulleys, as follows:

- a) electrically connected and earthed;
- b) made of steel;
- c) diameter 200 mm or larger, rim width 120 mm;