



SLOVENSKI STANDARD
SIST EN ISO 284:2004
01-junij-2004

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Conveyor belts - Electrical conductivity - Specification and test method (ISO 284:2003)

Fördergurte - Elektrische Leitfähigkeit - Spezifikation und Prüfverfahren (ISO 284:2003)

Courroies transporteuses - Conductibilité électrique - Specification et méthode d'essai
(ISO 284:2003)

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Ta slovenski standard je istoveten z: EN ISO 284:2003

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST EN ISO 284:2004 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 284

August 2003

ICS 53.040.20

Supersedes EN 20284:1993

English version

Conveyor belts - Electrical conductivity - Specification and test method (ISO 284:2003)

Courroies transporteuses - Conductibilité électrique -
Spécification et méthode d'essai (ISO 284:2003)

Fördergurte - Elektrische Leitfähigkeit - Spezifikation und
Prüfverfahren (ISO 284:2003)

This European Standard was approved by CEN on 10 July 2003.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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

EN ISO 284:2003 (E)

CORRECTED 2003-12-17

Foreword

This document (EN ISO 284:2003) 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 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 February 2004, and conflicting national standards shall be withdrawn at the latest by February 2004.

This document supersedes EN 20284:1993.

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

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The text of ISO 284:2003 has been approved by CEN as EN ISO 284:2003 without any modifications.

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INTERNATIONAL STANDARD

ISO 284

Third edition
2003-08-01

Conveyor belts — Electrical conductivity — Specification and test method

*Courroies transporteuses — Conductibilité électrique — Spécification et
méthode d'essai*

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ISO 284:2003(E)

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

This third edition cancels and replaces the second edition (ISO 284:1982), which has been technically revised.

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Conveyor belts — Electrical conductivity — Specification and test method

1 Scope

This International Standard specifies the maximum electrical resistance of a conveyor belt and the corresponding test method.

The test is intended to ensure that the belt is sufficiently conductive to avoid the accumulation of electrical static charge which may be developed during service use.

This International Standard is not suitable or applicable to light conveyor belts as described by EN 873^[1], the static electrical properties of which are measured by EN 1637^[2].

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 18573:—¹⁾, *Conveyor belts — Test atmospheres and conditioning periods*
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3 Specification

The electrical resistance of the conveyor belt when tested in accordance with the method described in Clause 4 shall not exceed $3 \times 10^8 \Omega$ (300 M Ω). Lower values may be specified for special applications.

4 Test method

4.1 Principle

An electric current of specified voltage is passed via electrodes through a suitably prepared test piece taken from the belt.

4.2 Materials and apparatus

4.2.1 Sheet of insulating material, a little larger than the test piece.

4.2.2 Two cylindrical and coaxial brass electrodes, the base of one being circular and the other annular.

The dimensions and masses are given in Figure 1. The bases of these electrodes shall be machined flat and polished. A flexible insulated wire shall be connected to each electrode.

1) To be published.