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Conveyor belts - Electrical conductivity - Specification and test method (ISO 284:2025)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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ICS 53.040.20

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EUROPEAN STANDARD

EN ISO 284

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 284:2012

English Version

Conveyor belts - Electrical conductivity - Specification and test method (ISO 284:2025)

Courroies transporteuses - Conductibilité électrique -
Spécification et méthode d'essai (ISO 284:2025)

Fördergurte - Elektrische Leitfähigkeit - Spezifikation
und Prüfverfahren (ISO 284:2025)

This European Standard was approved by CEN on 6 June 2025.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 284:2025) 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of an identical text or by endorsement, at the latest by December 2025, and conflicting national standards shall be withdrawn at the latest by December 2025.

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

This document supersedes EN ISO 284:2012.

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Endorsement notice

The text of ISO 284:2025 has been approved by CEN as EN ISO 284:2025 without any modification.

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Specification	1
5 Test method	1
5.1 Principle.....	1
5.2 Materials and apparatus.....	1
5.3 Test pieces.....	3
5.3.1 Dimensions.....	3
5.3.2 Number.....	3
5.3.3 Cleaning of test surfaces.....	3
5.4 Atmosphere for conditioning and testing.....	3
5.5 Procedure.....	3
5.6 Expression of results.....	4
5.7 Test report.....	4
Annex A (informative) Variation of electrical resistance with temperature and humidity	5
Bibliography	6

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 document 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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC CEN/TC 188, *Conveyor belts*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 284:2012), which has been technically revised.

The main change is as follows:

- removal of "mg/g" from the second column of [Table 1](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Conveyor belts — Electrical conductivity — Specification and test method

1 Scope

This document 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 can be developed during service use.

This document is not suitable or applicable to light conveyor belts as described in ISO 21183-1, the static electrical properties of which are measured by ISO 21178.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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, *Conveyor belts — Test atmospheres and conditioning periods*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Specification

The electrical resistance of the conveyor belt when tested in accordance with the method described in [Clause 5](#) shall not exceed $3 \times 10^8 \Omega$ (300 M Ω). Lower values may be specified for special applications.

5 Test method

5.1 Principle

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

5.2 Materials and apparatus

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