
**Tekstilije - Ugotavljanje odpornosti tekstilij proti drgnjenju po Martindalovi metodi
- 4.del: Ocena spremembe videza (ISO 12947-4:1998)**

Textiles - Determination of the abrasion resistance of fabrics by the Martindale method -
Part 4: Assessment of appearance change (ISO 12947-4:1998)

Textilien - Bestimmung der Scheuerbeständigkeit von textilen Flächengebilden mit der
Martindale-Verfahren - Teil 4: Beugung der Oberflächenveränderung (ISO 12947-4:1998)

Textiles - Détermination de la résistance à l'abrasion des étoffes par la méthode
Martindale - Partie 4: Evaluation du changement d'aspect (ISO 12947-4:1998)

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Textiles - Determination of the abrasion resistance of fabrics by
the Martindale method - Part 4: Assessment of appearance
change (ISO 12947-4:1998)

Textiles - Détermination de la résistance à l'abrasion des
étoffes par la méthode Martindale - Partie 4: Evaluation du
changement d'aspect (ISO 12947-4:1998)

Textilien - Bestimmung der Scheuerbeständigkeit von
textilen Flächengebilden - Martindale-Verfahren - Teil 4:
Beurteilung der Oberflächenveränderung (ISO 12947-
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This European Standard was approved by CEN on 15 December 1998.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

SIST EN ISO 12947-4:1999

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard ISO 12947-4:1998 has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products", 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 June 1999, and conflicting national standards shall be withdrawn at the latest by June 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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The text of the International Standard ISO 12947-4:1998 was approved by CEN as a European Standard without any modification.

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Textiles — Determination of the abrasion resistance of fabrics by the Martindale method —

Part 4:

Assessment of appearance change

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*Textiles — Détermination de la résistance à l'abrasion des étoffes par la
méthode Martindale*

Partie 4: Évaluation du changement d'aspect

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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 3.

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.

International Standard ISO 12947-4 was prepared by Technical Committee ISO/TC 38, *Textiles*.

ISO 12947 consists of the following parts under the general title *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method*:

— Part 1: *Martindale abrasion testing apparatus*

— Part 2: *Determination of specimen breakdown*

— Part 3: *Determination of mass loss* (standards.iteh.ai)

— Part 4: *Assessment of appearance change*

Annex A forms an integral part of this part of ISO 12947.

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Textiles — Determination of the abrasion resistance of fabrics by the Martindale method —

Part 4: Assessment of appearance change

1 Scope

This part of ISO 12947 is applicable to the assessment of the appearance change of specimens covering all textile fabrics including nonwovens and fabrics where the specifier indicates the end performance as having a low abrasion wear life. This method differs appreciably from those in ISO 12947-2 and 12947-3.

NOTE Further introductory comments are given in ISO 12947-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 12947. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 12947 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 105-A02:1993, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*.

ISO 139:1973, *Textiles — Standard atmospheres for conditioning and testing*.

ISO 2859-1:—¹⁾, *Sampling procedures for inspection by attributes — Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection*.

ISO 12947-1:1998, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*.

3 Definitions

For the purposes of this part of ISO 12947 the definitions given in ISO 12947-1 apply.

4 Principle

A circular specimen is subjected to a defined load and rubbed against an abrasive medium (standard fabric) in a translational movement tracing a Lissajous figure. The specimen holder containing the abrasive medium is additionally freely rotatable around its own axis perpendicular to the plane of the specimen. The evaluation of the abrasion resistance of the textile fabric is determined from assessment of the appearance change.

¹⁾ To be published. (Revision of ISO 2859:1989)