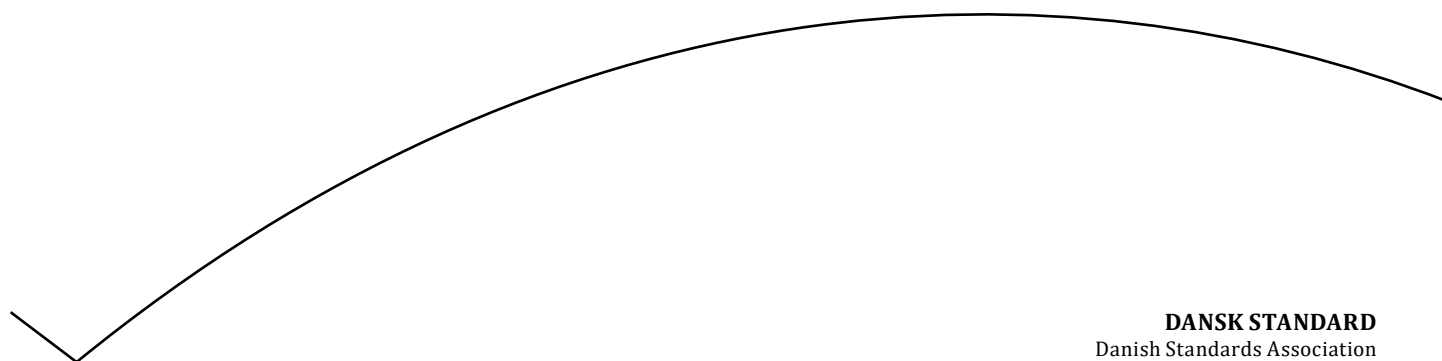


Krav til soveposer – Del 2: Stof- og materialeegenskaber

Requirements for sleeping bags –
Part 2: Fabric and material properties
(ISO 23537-2:2023)



DANSK STANDARD
Danish Standards Association

Göteborg Plads 1
DK-2150 Nordhavn

Tel: +45 39 96 61 01
dansk.standard@ds.dk
www.ds.dk

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Requirements for sleeping bags - Part 2: Fabric and material properties (ISO 23537-2:2023)

Exigences pour les sacs de couchage -
Partie 2: Propriétés de l'étoffe et des
matières (ISO 23537-2:2023)

Anforderungen an Schlafsäcke - Teil 2: Gewebe-
und Werkstoffeigenschaften (ISO 23537-2:2023)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document ([EN ISO 23537-2:2023](#)) has been prepared by Technical Committee ISO/TC 83 "Sports and other recreational facilities and equipment" in collaboration with Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and equipment" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by February 2024, and conflicting national standards shall be withdrawn at the latest by February 2024.

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 23537-2:2016](#).

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of [ISO 23537-2:2023](#) has been approved by CEN as [EN ISO 23537-2:2023](#) without any modification.

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Second edition
2023-08

Requirements for sleeping bags — Part 2: Fabric and material properties

Exigences pour les sacs de couchage —

Partie 2: Propriétés de l'étoffe et des matières



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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
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.

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 83, *Sports and other recreational facilities and equipment*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 136, *Sports, playground and other recreational facilities and equipment*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition ([ISO 23537-2:2016](#)), which has been technically revised.

The main changes are as follows:

- the requirement for colour fastness has been clarified to avoid misunderstanding (see [4.1.3.3](#));
- normative references have been updated (see [Clause 2](#)).

A list of all parts in the [ISO 23537 series](#) can be found on the ISO website.

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.

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Introduction

The [ISO 23537 series](#) consists of two parts, which allows for separate validation of thermal properties and product and material performance. This separation of parts also allows for continued development of new product combinations as it encourages manufacturers to consider new combinations of materials which, for example, are not suitable to be tested by traditional textile physical tests, but which can still have thermal properties evaluated.

This document considers important aspects concerning the physical and performance properties of the sleeping bag. Thermal and dimensional requirements are specified in [ISO 23537-1](#).

NOTE No prediction model exists for the determination of the limit temperatures based on the thermal resistance of the sleeping bag for children and babies. Moreover, such a model for testing cannot be developed because the necessary controlled sleep trials with children or babies in climatic chambers are, out of ethical reasons, not possible.

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Requirements for sleeping bags —

Part 2: Fabric and material properties (ISO 23537-2:2023)

1 Scope

This document specifies the fabric and material properties as well as provisions for labelling of adult sized sleeping bags for use in sports and leisure time activities.

This document does not apply to sleeping bags intended for specific purposes such as military use and extreme climate zone expedition. It does not apply to sleeping bags for children or babies.

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 105-A03](#), *Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining*

[ISO 105-B02](#), *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*

[ISO 105-C06](#), *Textiles — Tests for colour fastness — Part C06: Colour fastness to domestic and commercial laundering*

[ISO 105-E04](#), *Textiles — Tests for colour fastness — Part E04: Colour fastness to perspiration*

[ISO 105-X12](#), *Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing*

[ISO 139](#), *Textiles — Standard atmospheres for conditioning and testing*

[ISO 3758](#), *Textiles — Care labelling code using symbols*

[ISO 12947-1](#), *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*

[ISO 12947-2](#), *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 2: Determination of specimen breakdown*

[ISO 13937-1](#), *Textiles — Tear properties of fabrics — Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)*

[EN 12130](#), *Feather and down — Test methods — Determination of the filling power (massic volume)*

[EN 12132-1](#), *Feather and down — Methods of testing the down proof properties of fabrics — Part 1: Rubbing test*

[EN 12934](#), *Feather and down — Composition labelling of processed feathers and down for use as sole filling material*

[EN 12935](#), *Feather and down — Hygiene and cleanliness requirements*

[EN 13088](#), *Manufactured articles filled with feather and down — Method for the determination of a filled product's total mass and for the determination of the mass of the filling*

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[EN 13538-3](#), *Determination of dimensional characteristics of sleeping bags — Part 3: Volume under load and easiness of packing*

[EN 15586](#), *Textiles — Methods of testing the fibre proof properties of fabrics: Rubbing test*

[EN 29073-1](#), *Textiles — Test method for nonwovens — Part 1: Determination of mass per unit area*