BS ISO 2648:2020

BSI Standards Publication

Wool — Determination of fibre length distribution parameters — Capacitance method

bsi.

National foreword

This British Standard is the UK implementation of ISO 2648:2020.

The UK participation in its preparation was entrusted to Technical Committee TCI/24, Physical testing of textiles.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Date	Text affected

BS ISO 2648:2020

INTERNATIONAL STANDARD

ISO 2648

Second edition
2020-01-27

Wool — Determination of fibre length distribution parameters — Capacitance method

Laine — Détermination des paramètres de distribution de longueur des fibres — Méthode capacitive

Reference number
ISO 2648:2020(E)

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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
copyright@iso.org
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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 documents 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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 38, *Textiles,* Subcommittee SC 23, *Fibres and yarns*.

This second edition cancels and replaces the first edition (ISO 2648:1974), which has been technically revised.

The main changes compared to the previous edition are as follows:

— the title has been modified as "*Wool — Determination of fibre length distribution parameters — Capacitance method*";

— the content structure has been updated;

— in the scope, the text for “wool/synthetic blends” has been modified;

— the mandatory Clauses 2 and 3, “Normative references” and” Terms and definitions” respectively, have been added, and the subsequent clauses have been renumbered;

— Clause 4 "Principle" has been modified;

— in Clause 5, “measuring apparatus” has been modified and additional apparatus (5.2, 5.3and 5.4) for test specimen preparation have been included;

— the “Test specimen” clause has been deleted;

— Clause 6 "Conditioning and testing atmosphere" has been modified;

— a new Clause 7, “Sampling and preparation of laboratory sample” has been added;

— the former Clause 6, “Preparation of samples for testing” has been modified as 8.1 “"Preparation of test specimen”;

— in Clause 8, the procedure for apparatus measuring has been added;

— a new subclause (9.2)on “Digital system” has been added;

— the former “Definition of the test on top sliver-notes on sampling” clause has been deleted;

— new Clauses 10 and 11, “Test report” and “Precision” respectively, have been added;

— the former Annexes A (Literature reference), Annex C (The Almeter), Annex D (Control of the machine), Annex E (Calibration check of the machine) and Annex F (Accuracy of the method) have been deleted;

— a new Annex A, “Preparation of top and sliver”, has been added;

— former Annex B has been modified, and its title has been replaced with “Test specimen preparation”;

— a new Annex C ,“The introduction of the precision of the method”, has been added;

— the former Figures 1 to 4 have been deleted;

— new Figures A.1 to A.3 have been added;

— a Bibliography has been added.

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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— IEC Electropedia: available at http://www.electropedia.org/

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Note 1 to entry: It is expressed in millimetres (mm).

3.2
Barbe
B
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Note 1 to entry: It is expressed in millimetres (mm).

Note 2 to entry: Only Hauteur is certifiable.

3.3
total sample
total of the *laboratory samples* (3.4) taken to represent the lot

[SOURCE: ISO 137:2015, 3.2, modified — The definition has been slightly modified.]

INTERNATIONAL STANDARD ISO 2648:2020

Wool — Determination of fibre length distribution parameters — Capacitance method

1 Scope

This document specifies a method for the determination of fibre length distribution parameters (principally mean length, expressed as Hauteur or Barbe, and the coefficient of variation of the measurement) on slivers and rovings made from combed wool or combed synthetic fibres.

As the fibres of different chemical structure have different di-electric values, the method is not directly applicable to slivers made up of a blend of wool/synthetic fibres.

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 139, *Textiles — Standard atmospheres for conditioning and testing*

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