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BSI Standards Publication

Feather and down - Test methods - Determination of the fill power (massic volume)

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National foreword

This British Standard is the UK implementation of EN 12130:2018. It supersedes BS EN 12130:1998, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee TCI/66/3, Fillings and filled articles.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments/corrigenda issued since publication

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English Version

Feather and down - Test methods - Determination of the fill power (massic volume)

Plumes et duvets - Méthodes d'essais - Détermination du pouvoir gonflant (volume massique)

Federn und Daunen - Prüfverfahren - Bestimmung der Füllkraft (Füllvolumen)

This European Standard was approved by CEN on 7 May 2018.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 12130:2018) has been prepared by Technical Committee CEN/TC 443 "Feather and down", 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

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 12130:1998.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This document specifies one procedure for determining the fill power (massic volume). This method is applicable to processed plumage fit for or constituting filled manufactured articles (e.g. anoraks, quilts, etc.).

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.

EN 20187, *Paper, board and pulps - Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples (ISO 187)*

EN ISO 139, *Textiles - Standard atmospheres for conditioning and testing (ISO 139)*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1 fill power

fp
height of the volume occupied by a specified quantity of filling material subjected to a specific pressure

Note 1 to entry: Fill power should be expressed in millimetres (mm)

Note 2 to entry: The volume occupied by a specific quantity of the filling material comprises internal pores of elements and pore spaces between elements.

3.2 massic volume

volume occupied by a given mass of filling material, when subjected to a specific pressure

Note 1 to entry: Massic volume should be expressed in cubic centimetres per gram or cubic inches per 30 grams (g)

Note 2 to entry: The volume occupied by a specific quantity of filling material comprises internal pores of elements and pore spaces between elements

3.3 finished plumage

plumage which has been passed through all the working processes, including washing, drying and all hygienic treatments