



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13542:2002

ICS 59.040  
61.020

**MANUFACTURED ARTICLES FILLED WITH  
FEATHER AND DOWN - METHOD FOR  
DETERMINING THE COMPRESSIBILITY  
INDEX OF CLOTHING**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 13542**

October 2001

ICS 59.040; 61.020

English version

**Manufactured articles filled with feather and down - Method for  
determining the compressibility index of clothing**

Articles manufacturés garnis avec des plumes et duvets -  
Méthode pour déterminer l'indice de compressibilité des  
vêtements

Fertigartikel gefüllt mit Federn und Daunen - Verfahren zur  
Bestimmung der Kompressibilitätsindex von Kleidung

This European Standard was approved by CEN on 11 August 2001.

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 Management Centre 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## EN 13542:2001 (E)

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## **Foreword**

This European Standard has been prepared by Technical Committee CEN/TC 222 "Feather and down as filling material for any article, as well as finished articles filled with feather and down ", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

Annex A is normative.

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.

## EN 13542:2001 (E)

### 1 Scope

This European standard specifies a method to determine the compressibility index of clothing filled solely with feathers and/or downs.

### 2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 1883	Feather and down - Sampling in view of tests
EN 12130	Feather and down – Test methods - Determination of the filling power (massic volume)
EN 20139	Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973)
EN 20187	Paper, board and pulps - Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples (ISO 187:1990)

### 3 Terms and definitions

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

#### 3.1

##### **residual Volume ( $V_1$ )**

volume of the clothing in a tube with a specified diameter, under a pressure of 10 kPa

#### 3.2

##### **conventional Volume ( $V_2$ )**

conventional volume of the filling of a clothing, calculated from the measurement of filling power and the mass of filling contained in the clothing

#### 3.3

##### **compressibility index of clothing ( $C_1$ )**

difference between the conventional volume and the residual volume divided by conventional volume and expressed as a percentage

### 4 Principle

A strong pressure is exerted on the clothing and its residual volume is calculated. The conventional volume is calculated from elements of mass of filling and filling power obtained on the filling conditioned.

The compressibility index is then calculated.

**NOTE** In accordance with this standard, the materials and accessory volume of the clothing is considered as negligible.

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