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I.S. EN 1230-1:2009

# Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 1: Odour

## I.S. EN 1230-1:2009

*Incorporating amendments/corrigenda issued since publication:*

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English Version

## Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 1: Odour

Papier et cartons destinés à entrer avec les denrées  
alimentaires - Analyse sensorielle - Partie 1 : Odeur

Papier und Pappe vorgesehen für den Kontakt mit  
Lebensmitteln - Sensorische Analyse - Teil 1: Geruch

This European Standard was approved by CEN on 5 October 2009.

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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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 1230-1:2009) has been prepared by Technical Committee CEN/TC 172 “Pulp, paper and board”, 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of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1230-1:2001.

With regard to EN 1230-1:2001 the following changes have been made:

- including the reference to the CEN/TR 15645-1 (Note in Clause 5);
- simplifying the descriptions of evaluation scale of odour (11.1);
- editorial updating.

EN 1230 consists of the following parts, under the general title *Paper and board intended to come into contact with foodstuffs – Sensory analysis*:

- Part 1: Odour
- Part 2: Off-flavour (taint)

Annex A is informative.

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

## **Introduction**

The purpose of testing paper or board for odour is to establish whether the material to be tested possesses an inherent odour, when kept at room temperature. The test serves for evaluating the sensory quality of paper and board intended for food packaging or otherwise to come into contact with foodstuffs.

NOTE Temperature conditions other than room temperature may be used. In this case the result is not in conformity with this European Standard, which circumstances should be reported together with the result.

In order to give reliable results, this test should be performed by selected assessors.

The result may be influenced by the time elapsed between manufacturing and testing as well as by the storage conditions of the paper or board.

Part 2: Off flavour (taint) comprises the corresponding method for the estimation of changes in taste caused by transmission of substances to a test substance.

## 1 Scope

This European Standard specifies the test method for assessment of the odour released by a paper or board sample. It is applicable to all kinds of paper and board, including coated and/or printed material, intended to come into direct or indirect contact with foodstuffs. It is not applicable for the determination of consumers' preference.

## 2 Normative references

The following referenced documents are indispensable for the application 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 ISO 186:2002, *Paper and board — Sampling to determine average quality (ISO 186:2002)*

## 3 Terms and definitions

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

### 3.1

#### **odour**

organoleptic attribute perceptible by the olfactory organ on sniffing certain volatile substances

### 3.2

#### **sample**

aggregate of all the specimens taken from the lot to provide information on the average quality of the lot and possibly serve as a basis for a decision on the lot

[EN ISO 186:2002]

### 3.3

#### **test piece**

the piece or pieces of paper or board on which the measurement is carried out in accordance with the stipulations of the method of test

NOTE The test piece is generally taken from a specimen; in some instances the test piece may be the specimen itself, or several specimens. [EN ISO 186]

### 3.4

#### **assessor**

any person taking part in a sensory test

[ISO 5492:2008]

### 3.5

#### **selected assessor**

assessor chosen for his/her ability to perform a sensory test

[ISO 5492:2008]

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