



SLOVENSKI STANDARD

SIST EN 645:1997

01-september-1997

Papir, karton in lepenka v neposrednem stiku z živili - Priprava hladnega vodnega ekstrakta

Paper and board intended to come into contact with foodstuffs - Preparation of a cold water extract

Papier und Pappe vorgesehen für den Kontakt mit Lebensmitteln - Herstellung eines Kaltwasserextraktes

Papier et carton destinés à entrer en contact avec les denrées alimentaires - Préparation d'un extrait aqueux à froid

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Ta slovenski standard je istoveten z: EN 645:1993

ICS:

67.250	Materiali in predmeti v stiku z živili	Materials and articles in contact with foodstuffs
85.060	Papir, karton in lepenka	Paper and board

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EUROPEAN STANDARD

EN 645:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1993

UDC 676.2:663/664:620.1:543.8

Descriptors: Paper, paperboards, food products, food-container contact, aqueous extract, preparation, leaching tests, distilled water

English version

**Paper and board intended to come into contact
with foodstuffs - Preparation of a cold water
extract**

Papier et carton destinés à entrer en contact
avec les denrées alimentaires - Préparation
d'un extrait aqueux à froid

Papier und Pappe vorgesehen für den Kontakt mit
Lebensmitteln - Herstellung eines
Kaltwasserextraktes

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the 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 National Standard, either by publication of an identical text or by endorsement, at the latest by april 1994, and conflicting National Standards shall be withdrawn at the latest by april 1994.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard describes the preparation of a cold water extract for investigations of certain extractives in paper and board intended to come into contact with foodstuffs.

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.

ISO 186 Paper and board - Sampling to determine average quality

ISO 287 Paper and board - Determination of moisture content - Oven drying method

ISO 536 Paper and board - Determination of grammage

ISO 1042 Laboratory glassware - One-mark volumetric flasks

ISO 1773 Laboratory glassware - Boiling flasks (narrow necked)

ISO 6556 Laboratory glassware - Filter flasks

3 Definition

For the purposes of this standard, the following definition applies.

Cold water extract

The filtered water solution obtained as a result of the cold extraction.

NOTE: In certain instances this extract can contain small amounts of suspended particles.

4 Principle

The sample is torn or cut and extracted with water at (23 ± 2) °C for 24 h, shaking occasionally. After extraction the extract is filtered if necessary, the extract or the filtrate (cold water extract) is used for the investigation of the extractives.

5 Reagents

5.1 Distilled water or water of equal purity.

NOTE: The quality of the water should be in accordance with the requirements of the appropriate test method for the determination of the specific extractive.

6 Apparatus

6.1 Balance, accurate to 0,001 g.

6.2 500 ml conical flask, wide neck with ground glass stopper (see ISO 1773).

6.3 Filtration equipment, fritted-glass filter porosity 4 (nom. size 90) with filterflask of 500 ml (see ISO 6556).

6.4 Graduated measuring cylinder, 250 ml.

6.5 One-mark volumetric flask, 250 ml (see ISO 1042).

6.6 Protective gloves.

6.7 Ceramic scissors (needed only for the determination of metals).

7 Sampling

7.1 Sampling is carried out in accordance with ISO 186. Do not touch the test area of sample or test specimen with the fingers; use protective gloves (6.6).

7.2 A minimum of 10 g of sample is required.

7.3 If required, take a separate sample for the determination of the grammage in accordance with ISO 536 and/or for the determination of moisture content (see ISO 287).

8 Procedure

8.1 Tear or cut the sample as taken into pieces of approx. 1 cm² to 2 cm². Use protective gloves (6.6).

8.2 Weigh (10 ± 0,1) g of the test pieces to an accuracy of 0,01 g, put them into the conical flask (6.2), add 200 ml (6.4) of water (5.1) and stopper the flask. Leave this preparation to stand for 24 h at (23 ± 2) °C, shaking occasionally.

Decant the solution and wash the test pieces remaining in the flask twice. If necessary filter the preparation (6.3). Transfer the extract and the washings or the filtrate to a marked volumetric flask (6.5) and fill up to the mark with water (5.1). Use the content of the flask for further investigation.

NOTE: If necessary, scaling up can be done but not more than twice.
