

Influence of materials on water intended for human consumption - Influence due to migration - Part 3: Test method for ion exchange and adsorbent resins

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12873-3:2006 sisaldab Euroopa standardi EN 12873-3:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12873-3:2006 consists of the English text of the European standard EN 12873-3:2006.</p> <p>This document is endorsed on 28.04.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies a procedure to determine the migration of substances from ion exchange and adsorbent resin materials for use in contact with water intended for human consumption. Resins comprise synthetic organic macromolecular materials.</p>	<p>Scope: This European Standard specifies a procedure to determine the migration of substances from ion exchange and adsorbent resin materials for use in contact with water intended for human consumption. Resins comprise synthetic organic macromolecular materials.</p>
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ICS 13.060.20, 67.250

Võtmesõnad:

ICS 13.060.20; 67.250

English Version

Influence of materials on water intended for human consumption
- Influence due to migration - Part 3: Test method for ion
exchange and adsorbent resins

Influence des matériaux sur l'eau destinée à la
consommation humaine - Influence due à la migration -
Partie 3 : Méthode d'essai des résines absorbantes et
échangeuses d'ions

Einfluss von Materialien auf Wasser für den menschlichen
Gebrauch - Einfluss infolge der Migration - Teil 3:
Prüfverfahren für Ionenaustauscher und Adsorberharze

This European Standard was approved by CEN on 23 January 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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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Contents		Page
Foreword		3
Introduction		4
1 Scope		5
2 Terms and definitions		5
3 Principle		6
4 Reagents		6
4.1 General		6
4.2 Cleaning liquids for glassware		6
5 Apparatus		7
6 Test samples		7
7 Pretreatment of test samples		7
8 Test procedure		7
8.1 General		7
8.2 Preparation of leachate sample		8
8.3 Procedural blanks		8
8.4 Analysis		8
9 Calculation of test results		9
10 Test report		9
Annex A (informative) Flow diagram		11
Annex B (informative) Test apparatus		12
Annex C (informative) Resin pre-treatment		13

Foreword

This document (EN 12873-3:2006) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

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 September 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

This draft will result in one of a series of standards on test methods which support the appropriate standards.

It has been drawn up with the objective to describe a test method to determine the migration of substances from ion exchange and adsorbent resins.

Evaluation of the efficiency of resins, in removing contaminants, is not included.

Annex A, provides a flow diagram of the steps in the test procedure.

Annex B, describes a test apparatus.

Annex C, provides information on resin pre-treatment.

This draft standard is the third in a series of standards dealing with the influence of migration from materials on water intended for human consumption, including:

- Part 1 Test method for non-metallic and non-cementitious factory made products;
- Part 2 Test method for non-metallic and non-cementitious site-applied materials;
- Part 3 Test method for ion exchange and adsorbent resins;
- Part 4 Test method for water treatment membranes.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption caused by materials, it is to be remembered that, while awaiting the adoption of verifiable European acceptance criteria, the relevant national regulations remain in force.

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1 Scope

This European Standard specifies a procedure to determine the migration of substances from ion exchange and adsorbent resin materials for use in contact with water intended for human consumption.

Resins comprise synthetic organic macromolecular materials.

The standard is applicable to resins of the following types:

- Ion exchange resins: used to modify the composition of water (e.g. softening by removal of calcium ions). They can be in either an anionic or cationic state.
- Adsorbent resins: used to lower the concentration of undesirable substances (usually organic pollutants) from water. They are used in a neutral state.

2 Terms and definitions

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

2.1

test

technical operation that consists of the determination of one or more characteristics of a given product.

2.2

test procedure

specified technical method for performing a test

2.3

test report

document that presents test results and other information relevant to a test

2.4

testing laboratory

laboratory that performs tests

2.5

product

material, in its finished form that comes into contact with water

2.6

test sample

sample of a product submitted for testing

2.7

test water

water for migration testing (4.1)

2.8

blank water

test water (4.1) which has been kept at the same specified conditions as migration water (see clause 8) but without contact with the test sample.