ICS 13.060.20, 67.250 SLOVENSKÁ TECHNICKÁ NORMA Júl 2019

STN	**Vplyv materiálov na pitnú vodu Vplyv migrácie (vylúhovania) Časť 3: Skúšobná metóda pre ionovýmenné a adsorpčné živice**	**STN EN 12873-3 75 8702**

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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/19

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ICS 13.060.20; 67.250 Supersedes EN 12873-3:2006

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

Einfluss von Materialien auf Trinkwasser - Einfluß infolge der Migration - Teil 3: Prüfverfahren für Ionen und Adsorberharze

This European Standard was approved by CEN on 26 November 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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Contents

Page

European foreword

This document (EN 12873-3:2019) 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of an identical text or by endorsement, at the latest by August 2019, and conflicting national standards shall be withdrawn at the latest by August 2019.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 12873-3:2006.

This document will result in one of a series of standards on test methods which support the appropriate standards, for products in contact with water intended for human consumption.

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

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

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

Informative Annex B, describes a test apparatus.

Informative Annex C, provides information on resin pre-treatment.

This 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 factory-made products made from or incorporating organic or glassy (porcelain/vitreous enamel) materials;

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.

The major technical changes from EN 12873-3:2006 are:

- Introduction of a second sampling method
- Specification of a method of control of the test device

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.

Introduction

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

1 Scope

This document specifies a procedure to determine the migration of substances from ion exchange, adsorbent or hybrid resin materials for use in contact with water intended for human consumption.

Resins comprise synthetic organic macromolecular materials.

This 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;

— hybrid adsorbers: Organic polymer based ion exchange resin or adsorbent resin with incorporated inorganic (e.g. iron hydroxide) or second organic phase. Used to lower the concentration of undesirable substances (specific inorganic or organic pollutants) from water. They can be in either an anionic, cationic or neutral state.

2 Normative references

There are no normative references in this document.