

**Products used for treatment of water intended for human consumption - Natural Zeolite**

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## EESTI STANDARDI EESSÕNA

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English Version

## Products used for treatment of water intended for human consumption - Natural zeolite

Produits utilisés pour le traitement de l'eau destinée à la consommation humaine - Zéolite naturelle

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natürlicher Zeolith

This European Standard was approved by CEN on 6 February 2014.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 16070:2014) 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of an identical text or by endorsement, at the latest by September 2014 and conflicting national standards shall be withdrawn at the latest by September 2014.

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.

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## Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this European Standard:

- a) this European Standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

NOTE Conformity with this European Standard does not confer or imply acceptance or approval of the product in any of the Member States of the EU or EFTA. The use of the product covered by this European Standard is subject to regulation or control by National Authorities.

## 1 Scope

This European Standard is applicable to natural zeolites used for treatment of water intended for human consumption. It describes the characteristics of natural zeolites and specifies the requirements and the corresponding test methods for natural zeolites. It gives information on their use in water treatment. The natural zeolites included in this standard are clinoptilolite, chabasite and phillipsite/analcime.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12901:1999, *Products used for treatment of water intended for human consumption - Inorganic supporting and filtering materials - Definitions*

EN 12902:2004, *Products used for treatment of water intended for human consumption - Inorganic supporting and filtering materials - Methods of test*

EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696)*

EN ISO 14911, *Water quality - Determination of dissolved Li<sup>+</sup>, Na<sup>+</sup>, NH<sub>4</sub><sup>+</sup>, K<sup>+</sup>, Mn<sup>2+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>, Sr<sup>2+</sup> and Ba<sup>2+</sup> using ion chromatography - Method for water and waste water (ISO 14911)*

## 3 Terms, definitions and symbols

For the purposes of this document, the terms, definitions and symbols given in EN 12901:1999 apply.

## 4 Description

### 4.1 Identification

#### 4.1.1 Chemical name(s)

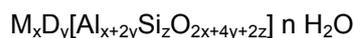
Crystalline hydrated aluminosilicate.

#### 4.1.2 Synonym or common names

- Zeolite;
- Hydrated sodium, potassium, calcium, magnesium aluminosilicate.

#### 4.1.3 Chemical formula

General formula:



where

M = Na, K, Li;

D = Ca, Mg;

x/y/z = 1 to 6;