

**Chemicals used for treatment of water
intended for human consumption - High-
calcium lime**

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for human consumption - High-calcium lime

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

<p>Käesolev Eesti standard EVS-EN 12518:2008 sisaldab Euroopa standardi EN 12518:2008 ingliskeelset teksti.</p>	<p>This Estonian standard EVS-EN 12518:2008 consists of the English text of the European standard EN 12518:2008.</p>
<p>Standard on kinnitatud Eesti Standardikeskuse 27.02.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p>	<p>This standard is ratified with the order of Estonian Centre for Standardisation dated 27.02.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p>
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<p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>The standard is available from Estonian standardisation organisation.</p>

ICS 71.100.80

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Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

English Version

**Chemicals used for treatment of water intended for human
consumption - High-calcium lime**

Produits chimiques utilisés pour le traitement de l'eau
destinée à la consommation humaine - Chaux

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Weißkalk

This European Standard was approved by CEN on 30 November 2007.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 12518:2008) 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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

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 12518:2000.

The significant technical difference between this edition and EN 12518:2000 is as follows:

deletion of this reference to EC Directive 80/778/EEC of July, 15 1980 in order to take into account of the last Directive in force (see [1]).

The designation and grading of products have changed:

- Class: used for grouping properties of the main component of the chemical (Table 1);
- Grade: used in relation to the levels of impurities (Tables 2 and 3);
- Type: used for different levels of chemical parameters (Table 4).

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

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 high-calcium lime used for treatment of water intended for human consumption. It describes the characteristics of high-calcium lime and specifies the requirements and the corresponding test methods for high-calcium lime. It gives information on its use in water treatment. It also determines the rules relating to safe handling and use (see Annex B).

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 12485, *Chemicals used for treatment of water intended for human consumption - Calcium carbonate, high-calcium lime and half-burnt dolomite - Test methods*

3 Description

3.1 Identification

3.1.1 General

High-calcium limes are calcium oxide, calcium hydroxide and aqueous suspension of calcium hydroxide (milk of lime).

3.1.2 Chemical names

- a) Calcium oxide;
- b) Calcium hydroxide.

3.1.3 Synonym or common names

- a) Calcium oxide: Pulverized high-calcium lime, quicklime, lump high-calcium lime;
- b) Calcium hydroxide: Hydrated high-calcium lime, calcium hydroxide - aqueous suspension (milk of lime).

3.1.4 Relative molecular mass

- a) Calcium oxide: 56,08;
- b) Calcium hydroxide: 74,09.

3.1.5 Empirical formula

- a) Calcium oxide: CaO ;
- b) Calcium hydroxide: Ca(OH)_2 .

3.1.6 Chemical formula

- a) Calcium oxide: CaO ;