



SLOVENSKI STANDARD

SIST EN 1017:2008

01-marec-2008

Nadomešča:
SIST EN 1017:1999

Kemikalije, ki se uporabljajo za pripravo pitne vode - Polpraženi dolomit

Chemicals used for treatment of water intended for human consumption - Half-burnt dolomite

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Halbgebrannter Dolomit

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

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Ta slovenski standard je istoveten z: EN 1017:2008

ICS:

13.060.20	Pitna voda	Drinking water
71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

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en,fr,de

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English Version

Chemicals used for treatment of water intended for human
consumption - Half-burnt dolomite

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calcinée

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menschlichen Gebrauch - Halbgebrannter Dolomit

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

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1017:2008) 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 1017:1998.

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.

The significant technical difference between this edition and EN 1017:1998 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]).

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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.

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1 Scope

This European Standard is applicable to half-burnt dolomite used for treatment of water intended for human consumption. It describes the characteristics of half-burnt dolomite and specifies the requirements and the corresponding test methods for half-burnt dolomite. It gives information on its use in water treatment.

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*

ISO 3165, *Sampling of chemical products for industrial use - Safety in sampling*

ISO 6206, *Chemical products for industrial use - Sampling – Vocabulary*

3 Description

3.1 Identification

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3.1.1 Chemical name

Calcium carbonate magnesium oxide. [SIST EN 1017:2008](https://standards.iteh.ai/catalog/standards/sist/2f167022-c39c-404b-a358-6eaaac91c61fa/sist-en-1017-2008)
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3.1.2 Synonym or common name

Half-burnt dolomite.

3.1.3 Relative molecular mass

140,39.

3.1.4 Empirical formula

CaCO₃.MgO.

3.1.5 Chemical formula

CaCO₃.MgO.

3.1.6 CAS Registry Number ¹⁾

CaCO₃ : 1317-65-3

MgO : 1309-48-4.

¹⁾ Chemical Abstracts Service Registry Number.

EN 1017:2008 (E)**3.1.7 EINECS reference ²⁾**

CaCO₃ : 215-279-6.

MgO : 215-171-9.

3.2 Commercial forms

Half-burnt dolomite is available in crushed and granular form of various particle size ranges.

3.3 Physical properties**3.3.1 Appearance**

The product is a white or grey granular material.

3.3.2 Density

The density of the product is equal to 2,4 g/cm³ at 20 °C. The bulk density of the product is between 1,05 g/cm³ to 1,2 g/cm³.

3.3.3 Solubility in water

The solubility of the product in water is 0,02 g/l at 10 °C.

3.3.4 Vapour pressure

Not applicable.

3.3.5 Boiling point at 100 kPa ³⁾

Not applicable.

3.3.6 Melting point

Not known.

3.3.7 Specific heat

Not applicable.

3.3.8 Viscosity (dynamic)

Not applicable.

3.3.9 Critical temperature

Not applicable.

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²⁾ European Inventory of Existing Commercial Chemical Substances.

³⁾ 100 kPa = 1 bar.

3.3.10 Critical pressure

Not applicable.

3.3.11 Physical hardness

Not applicable.

3.3.12 Particle size

It varies depending on the application (see A.2.3).

3.4 Chemical properties

Half-burnt dolomite reacts as an alkali when dissolved in water. With carbon dioxide and water it reacts to form calcium hydrogen carbonate and magnesium hydrogen carbonate.

4 Purity criteria**4.1 General**

This European Standard specifies the minimum purity requirements for half-burnt dolomite used for the treatment of water intended for human consumption. Limits are given for impurities commonly present in the product. Depending on the raw material and the manufacturing process other impurities may be present and, if so, this shall be notified to the user and when necessary to the relevant authorities.

NOTE Users of this product should check the national regulations in order to clarify whether it is of appropriate purity for treatment of water intended for human consumption, taking into account raw water quality, required dosage, contents of other impurities and additives used in the product not stated in this product standard.

Limits have been given for impurities and chemical parameters where these are likely to be present in significant quantities from the current production process and raw materials. If the production process or raw materials leads to significant quantities of impurities, by-products or additives being present, this shall be notified to the user.

4.2 Composition of commercial product

The product shall conform to the requirements specified in Table 1

Table 1 - Composition of commercial product

Parameter		Content in mass fraction in % of commercial product
Free MgO and Mg(OH) ₂ expressed as MgO	min.	23
CaCO ₃ expressed as CaCO ₃	min.	68