



SLOVENSKI STANDARD

SIST EN 1017:1999

01-april-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

iTeh STANDARD PREVIEW

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

[SIST EN 1017:1999](https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77930642e63b/sist-en-1017-1999)

Ta slovenski standard je istoveten z: **EN 1017:1998**

ICS:

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

SIST EN 1017:1999

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1017:1999

<https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>

EUROPEAN STANDARD

EN 1017

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1998

ICS 71.100.80

Descriptors: potable water, water treatment, chemical compounds, dolomite mineral, description, physical properties, chemical properties, impurities, toxic substances, tests, labelling, storage

English version

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

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

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

This European Standard was approved by CEN on 30 April 1998.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)



SIST EN 1017:1999

<https://standards.iteh.ai/catalog/standards/sist/ab31bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

Foreword	3
Introduction	4
1 Scope	4
2 Normative references	4
3 Description	5
3.1 Identification	5
3.2 Commercial form	5
3.3 Physical properties.....	6
3.4 Chemical properties	7
4 Purity criteria	7
4.1 Composition of commercial product.....	7
4.2 Impurities and main by-product.....	8
4.3 Toxic substances	8
5 Test methods	9
5.1 Sampling	9
5.2 Analyses	9
6 Labelling - Transportation - Storage	9
6.1 Means of delivery.....	9
6.2 Risk and safety labelling according to the EU directives	9
6.3 Transportation regulations and labelling	9
6.4 Marking.....	10
6.5 Storage.....	10
Annex A (informative) General information on half-burnt dolomite	11
Annex B (informative) Bibliography	13

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1017:1999

<https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>



Foreword

This European Standard 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 November 1998, and conflicting national standards shall be withdrawn at the latest by November 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1017:1999](#)

<https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>

Introduction

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

- 1) This 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 ;
- 2) 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.

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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 459-2	Building lime - Part 2 : Test methods
prEN 12485	Chemicals used for treatment of water intended for human consumption - Calcium carbonate high-calcium lime and half-burnt dolomite - Test methods
pr EN 12902	Products used for treatment of water intended for human consumption - Inorganic Supporting and filtering materials - Test methods
ISO 3165	Sampling of chemical products for industrial use - Safety in sampling
ISO 6206	Chemical products for industrial use - Sampling - Vocabulary

<https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>

3 Description

3.1 Identification

3.1.1 Chemical name

Calcium carbonate magnesium oxide.

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 : 471-34-1

MgO : 1309-48-4.

3.1.7 EINECS reference ²⁾

CaCO₃ : 207-439-9.

MgO : 215-171-9.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1017:1999

[https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-](https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999)

3.2 Commercial forms [77950842e63b/sist-en-1017-1999](https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999)

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

¹⁾ Chemical Abstracts Service Registry Number

²⁾ European Inventory of Existing Commercial Chemical Substances

3.3 Physical properties

3.3.1 Appearance

The production is a white or grey granular and pelletized material.

3.3.2 Density

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

3.3.3 Solubility in water

The solubility of the product 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.

3.3.10 Critical pressure

Not applicable.

³⁾ 100 kPa = 1 bar

3.3.11 Physical hardness

Not applicable.

3.3.12 Particle size

It varies depending on the application (see A.2.2).

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

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

4.1 Composition of commercial product

The product shall conform to the requirements specified in table 1 :

Table 1 : Composition of commercial product

Parameter	Limit % (m/m) of commercial product
Content of free MgO and Mg (OH) ₂ expressed as MgO min.	23
Content of CaCO ₃ expressed as CaCO ₃ min.	68

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1017:1999

<https://standards.iteh.ai/catalog/standards/sist/ab3bd596-d7f6-4f68-bddd-77950842e63b/sist-en-1017-1999>