



# SLOVENSKI STANDARD

## SIST EN 1017:2014

01-oktober-2014

Nadomešča:

SIST EN 1017:2008

SIST EN 1017:2008/AC:2010

---

**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

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

**Ta slovenski standard je istoveten z: EN 1017:2014**

---

**ICS:**

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

**SIST EN 1017:2014**

**en,fr,de**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 1017:2014

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>

EUROPEAN STANDARD

EN 1017

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2014

ICS 71.100.80

Supersedes EN 1017:2008

English Version

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

Produits chimiques 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 20 June 2014.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

[SIST EN 1017:2014](https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014)

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

<b>Contents</b>	<b>Page</b>
Foreword.....	4
Introduction .....	5
<b>1 Scope .....</b>	<b>6</b>
<b>2 Normative references .....</b>	<b>6</b>
<b>3 Description .....</b>	<b>6</b>
<b>3.1 Identification.....</b>	<b>6</b>
3.1.1 Chemical name.....	6
3.1.2 Synonym or common name.....	6
3.1.3 Relative molecular mass.....	6
3.1.4 Empirical formula.....	6
3.1.5 Chemical formula.....	6
3.1.6 CAS Registry Number .....	6
3.1.7 EINECS reference .....	6
<b>3.2 Commercial forms .....</b>	<b>7</b>
<b>3.3 Physical properties.....</b>	<b>7</b>
3.3.1 Appearance .....	7
3.3.2 Density .....	7
3.3.3 Solubility in water .....	7
3.3.4 Vapour pressure .....	7
3.3.5 Boiling point at 100 kPa .....	7
3.3.6 Melting point.....	7
3.3.7 Specific heat.....	7
3.3.8 Viscosity (dynamic).....	7
3.3.9 Critical temperature .....	7
3.3.10 Critical pressure.....	7
3.3.11 Physical hardness .....	7
3.3.12 Particle size .....	7
<b>3.4 Chemical properties .....</b>	<b>8</b>
<b>4 Purity criteria.....</b>	<b>8</b>
4.1 General.....	8
4.2 Composition of commercial product .....	8
4.3 Impurities and main by-product .....	8
4.4 Chemical parameters .....	9
<b>5 Test methods.....</b>	<b>9</b>
5.1 Sampling - solid .....	9
5.2 Analyses .....	9
<b>6 Labelling - Transportation - Storage.....</b>	<b>9</b>
6.1 Means of delivery.....	9
6.2 Labelling according to the EU legislation .....	10
6.3 Transportation regulations and labelling .....	10
6.4 Marking .....	11
6.5 Storage.....	11
6.5.1 Long term stability.....	11
6.5.2 Storage incompatibilities .....	11
<b>Annex A (informative) General information on half-burnt dolomite.....</b>	<b>12</b>
A.1 Origin .....	12

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN 1017:2014

<https://standards.iteh.ai/catalog/standards/sist/c191212e-711e-4596-9b9e-20b5f81c026c/sist-en-1017-2014>

<b>A.1.1</b>	<b>Raw materials .....</b>	<b>12</b>
<b>A.1.2</b>	<b>Manufacturing process .....</b>	<b>12</b>
<b>A.2</b>	<b>Use .....</b>	<b>12</b>
<b>A.2.1</b>	<b>Function.....</b>	<b>12</b>
<b>A.2.2</b>	<b>Other properties .....</b>	<b>12</b>
<b>A.2.3</b>	<b>Form in which it is used.....</b>	<b>12</b>
<b>A.2.4</b>	<b>Treatment dose.....</b>	<b>12</b>
<b>A.2.5</b>	<b>Means of application .....</b>	<b>12</b>
<b>A.2.6</b>	<b>Secondary effects.....</b>	<b>13</b>
<b>A.2.7</b>	<b>Removal of excess product.....</b>	<b>13</b>
<b>Annex B (normative) General rules relating to safety .....</b>		<b>14</b>
<b>B.1</b>	<b>Rules for safe handling and use .....</b>	<b>14</b>
<b>B.2</b>	<b>Emergency procedures.....</b>	<b>14</b>
<b>B.2.1</b>	<b>First aid.....</b>	<b>14</b>
<b>B.2.2</b>	<b>Spillage .....</b>	<b>14</b>
<b>B.2.3</b>	<b>Fire .....</b>	<b>14</b>
<b>Bibliography.....</b>		<b>15</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 1017:2014

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>

**EN 1017:2014 (E)****Foreword**

This document (EN 1017:2014) 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 January 2015 and conflicting national standards shall be withdrawn at the latest by January 2015.

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 1017:2008.

Significant technical differences between this edition and EN 1017:2008 are as follows:

- a) increase of limits for lead to 15 mg/kg and for selenium to 5 mg/kg for type A (former type 1) products;
- b) replacement of warning and safety precaution notes by labelling according to REGULATION (EC) No 1272/2008;
- c) rules for safe handling and use transferred to new normative Annex B.

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, 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>

## 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 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 document is subject to regulation or control by National Authorities.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 1017:2014](https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014)

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>

## EN 1017:2014 (E)

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

#### 3.1.1 Chemical name

Calcium magnesium carbonate oxide.

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

#### 3.1.2 Synonym or common name

Half-burnt dolomite; dolomite, calcined; half-calcined dolomite

SIST EN 1017:2014

<https://standards.iteh.ai/en/standards/SIST-EN-1017-2014>

#### 3.1.3 Relative molecular mass

140,39.

#### 3.1.4 Empirical formula

CCaMgO<sub>4</sub>.

#### 3.1.5 Chemical formula

CaCO<sub>3</sub>.MgO.

#### 3.1.6 CAS Registry Number <sup>1)</sup>

83897-84-1.

#### 3.1.7 EINECS reference <sup>2)</sup>

281-192-5.

<sup>1)</sup> Chemical Abstracts Service Registry Number.

<sup>2)</sup> European Inventory of Existing Commercial Chemical Substances.



## 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 production is a white or grey granular material.

### 3.3.2 Density

The density is equal to 2,4 g/cm<sup>3</sup> at 20 °C. The bulk density is between 1,05 g/cm<sup>3</sup> to 1,2 g/cm<sup>3</sup>.

### 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 <sup>3)</sup>

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.

### 3.3.11 Physical hardness

Not applicable.

### 3.3.12 Particle size

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

---

<sup>3)</sup> 100 kPa = 1 bar.

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN 1017:2014

<https://standards.iteh.ai/catalog/standards/sist/c191212e-71be-4596-9b9e-20b5f81c026c/sist-en-1017-2014>