SVENSK STANDARD
SS-EN 1017:2014+A1:2017

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Processkemikalier för beredning av dricksvatten – Halvbränd dolomit

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

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Europastandarden EN 1017:2014+A1:2017 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1017:2014+A1:2017.

Denna standard ersätter SS-EN 1017:2014, utgåva 3.

The European Standard EN 1017:2014+A1:2017 has the status of a Swedish Standard. This document contains the official version of EN 1017:2014+A1:2017.

This standard supersedes the Swedish Standard SS-EN 1017:2014, edition 3.

Upplysningar om sakinnehållet i standarden lämnas av SIS, Swedish Standards Institute, telefon 08-555 520 00. Standarder kan beställas hos SIS Förlag AB som även lämnar allmänna upplysningar om svensk och utländsk standard.

Information about the content of the standard is available from the Swedish Standards Institute (SIS), telephone +46 8 555 520 00. Standards may be ordered from SIS Förlag AB, who can also provide general information about Swedish and foreign standards.

Denna standard är framtagen av kommittén för Vattenförsörjning, SIS/TK 198/AG 02.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1017:2014+A1

June 2017

ICS 71.100.80

Supersedes EN 1017:2014

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 and includes Amendment 1 approved by CEN on 1 May 2017.

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

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

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European foreword

This document (EN 1017:2014+A1:2017) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document includes Amendment 1 approved by CEN on 1 May 2017.

This document supersedes ▌A1⟩ EN 1017:2014 ⟨A1▌.

The start and finish of text introduced or altered by amendment is indicated in the text by tags ▌A1⟩ ⟨A1▌.

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 December 2017 and conflicting national standards shall be withdrawn at the latest by December 2017.

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.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey 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 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.

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.

3.1.2 Synonym or common name

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

3.1.3 Relative molecular mass

140,39.

3.1.4 Empirical formula

$CCaMgO_4$.

3.1.5 Chemical formula

$CaCO_3.MgO$.

3.1.6 CAS Registry Number [1)]

83897-84-1.

3.1.7 EINECS reference [2)]

281-192-5.

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1) Chemical Abstracts Service Registry Number.

2) 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^3 at 20 °C. The bulk density is between 1,05 g/cm^3 to 1,2 g/cm^3.

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.

3.3.11 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. It reacts with carbon dioxide and water to form calcium hydrogen carbonate and magnesium hydrogen carbonate.

[3)] 100 kPa = 1 bar.