



SLOVENSKI STANDARD

SIST EN 15363:2014

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Nadomešča:
SIST EN 15363:2009

Kemikalije, ki se uporabljajo za pripravo bazenske vode - Klor

Chemicals used for treatment of swimming pool water - Chlorine

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Chlor

Produits chimiques utilisés pour le traitement de l'eau des piscines - Chlore
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Ta slovenski standard je istoveten z: EN 15363:2014

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ICS:

13.060.25	Voda za industrijsko uporabo	Water for industrial use
71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

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EUROPEAN STANDARD

EN 15363

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2014

ICS 71.100.80

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English Version

Chemicals used for treatment of swimming pool water - Chlorine

Produits chimiques utilisés pour le traitement de l'eau des piscines - Chlore

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Chlor

This European Standard was approved by CEN on 20 March 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.

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

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

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EN 15363:2014 (E)**Foreword**

This document (EN 15363:2014) 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 November 2014 and conflicting national standards shall be withdrawn at the latest by November 2014.

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 15363:2007.

The significant technical difference between this edition and EN 15363:2007 is as follows:

- updating of 6.2 in line with current legislation.

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.

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Introduction

In respect of the potential adverse effects on the quality of swimming pool water caused by the product covered by this document:

- a) this document 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 1 Conformity with this document 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.

NOTE 2 This product which is a biocide will comply with the relevant legislation in force. In the European Union, at the time of publication, this legislation is Directive 98/8/EC [1].

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EN 15363:2014 (E)**1 Scope**

This European Standard is applicable to chlorine used for the treatment of swimming pool water. It describes the characteristics of chlorine and specifies the requirements and the corresponding test methods for chlorine. It provides information on its use in swimming pool water treatment and determines the rules relating to safe handling and use of chlorine (see Annex B).

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 937, *Chemicals used for treatment of water intended for human consumption — Chlorine*

3 Description**3.1 Identification****3.1.1 Chemical name**

Chlorine.

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3.1.2 Synonym or common name

Liquid chlorine.

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3.1.3 Relative molecular mass

70,91.

3.1.4 Empirical formula

Cl₂.

3.1.5 Chemical formula

Cl₂.

3.1.6 CAS Registry Number¹⁾

7782-50-5.

3.1.7 EINECS reference²⁾

231-959-5.

¹⁾ Chemical Abstracts Service Registry Number.

²⁾ European Inventory of Existing Commercial Chemical Substances.

3.1.8 Commercial form

Liquefied gas.

3.2 Physical properties

3.2.1 Appearance

Liquid chlorine is a clear, amber coloured liquid. Chlorine gas is greenish yellow, 2,5 times heavier than air. It has a suffocating and characteristic odour.

3.2.2 Density

a) Liquid: 1,409 g/ml at 20 °C.

b) Gas:

1) 3,169 kg/m³ at 100 kPa at 0 °C;

2) 2,945 kg/m³ at 100 kPa at 20 °C.

3.2.3 Solubility (in water)

7,26 g/l at 20 °C and 100 kPa.

3.2.4 Vapour pressure

669 kPa at 20 °C.

3.2.5 Boiling point at 100 kPa³⁾

- 34 °C.

3.2.6 Liquefaction point

- 101 °C at 100 kPa.

3.2.7 Specific heat

a) Liquid: 920 J/(kg.K) at - 34 °C.

b) Gas: 475 J/(kg.K) at 0 °C.

3.2.8 Viscosity (dynamic)

a) Gas: 1 333 x 10⁻⁸ Pa.s at 20 °C.

b) Liquid: 4,78 x 10⁻⁴ Pa.s at - 34 °C.

3) 100 kPa = 1 bar.

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