



SLOVENSKI STANDARD
SIST EN 15798:2010

01-marec-2010

Kemikalije, ki se uporabljajo za pripravo bazenske vode - Filtri s snovmi

Products used for the treatment of swimming pool water - Filter media

Produkte zur Aufbereitung von Schwimm-und Badebeckenwasser - Filtermaterialien

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

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Ta slovenski standard je istoveten z: EN 15798:2010

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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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en,fr,de

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EUROPEAN STANDARD

EN 15798

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2010

ICS 71.100.80

English Version

Products used for the treatment of swimming pool water - Filter media

Produits utilisés pour le traitement de l'eau des piscines -
Médias filtrants

Produkte zur Aufbereitung von Schwimm-und
Badebeckenwasser - Filtermaterialien

This European Standard was approved by CEN on 28 November 2009.

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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.

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Foreword

This document (EN 15798:2010) 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of an identical text or by endorsement, at the latest by July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

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.

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Introduction

In respect of potential adverse effects on the quality of swimming pool water, caused by the products covered by this European Standard:

- a) this European Standard provides no information as to whether the products 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 these products remain in force.

NOTE Conformity with this document does not confer or imply acceptance or approval of the products in any of the Member States of the EU or EFTA. The use of the products covered by this document is subject to regulation or control by National Authorities.

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1 Scope

This European Standard is applicable to filter media (virgin granular activated carbon, silica sand and silica gravel, pumice, pyrolyzed coal material, anthracite and calcium carbonate) used for treatment of swimming pool water. It describes the characteristics of filter media and specifies the requirements and the corresponding test methods for filter media. It gives information on their use in swimming pool water treatment.

This standard does not concern powdered diatomaceous earth, perlite, zeolite and similar materials used with filter cartridges.

2 Normative references

The following referenced document is 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 1018, *Chemicals used for treatment of water intended for human consumption — Calcium carbonate*

EN 12485, *Chemicals used for treatment of water intended for human consumption — Calcium carbonate, high-calcium lime and half-burnt dolomite — Test methods*

EN 12902, *Products used for treatment of water intended for human consumption — Inorganic supporting and filtering materials — Methods of test*

EN 12904, *Products used for treatment of water intended for human consumption — Silica sand and silica gravel*

EN 12906, *Products used for treatment of water intended for human consumption — Pumice*

EN 12907, *Products used for treatment of water intended for human consumption — Pyrolyzed coal material*

EN 12909, *Products used for treatment of water intended for human consumption — Anthracite*

EN 12915-1, *Products used for the treatment of water intended for human consumption — Granular activated carbon — Part 1: Virgin granular activated carbon*

3 Description

For the identification, the commercial form and the chemical properties see the relevant subclauses of EN 1018, EN 12904, EN 12906, EN 12907, EN 12909 and EN 12915-1.

4 Physical properties

For the physical properties, the product shall conform to the requirements specified in the relevant subclauses of EN 12904, EN 12906, EN 12907, EN 12909 and EN 12915-1.

EN 15798:2010 (E)**5 Chemical properties****5.1 General**

This document specifies the minimum purity requirements for filter media used for the treatment of swimming pool water. Limits are given for impurities commonly present in the products. 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 relevant authorities.

NOTE Users of the products should check national regulations in order to clarify whether it is of appropriate purity for treatment of swimming pool water, taking into account water quality, required dosage, and contents of other impurities and additives used in the products not stated in the product document.

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 lead to significant quantities of other impurities, by-products or additives being present, this shall be notified to the user.

5.2 Impurities and main by-products

For virgin granular activated carbon the content of ash, water and water-soluble material shall conform to the requirements specified in EN 12915-1.

For calcium carbonate the impurities and main by-products shall conform to the requirements specified in EN 1018.

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5.3 Water-extractable substances (standards.iteh.ai)

For virgin granular activated carbon and pyrolyzed coal materials the level of water-extractable substances shall conform to the requirements specified in EN 12915-1 and EN 12907 respectively.

NOTE Polycyclic Aromatic Hydrocarbons (PAH): the sum of the detected concentrations of fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene.

5.4 Specific properties

For virgin granular activated carbon the iodine number of the powdered activated carbon shall be not less than 600 mg/g.

NOTE In certain applications lower values are acceptable.

6 Test methods

The methods for sampling and analysis are those specified in EN 12485, EN 12902 and EN 12915-1.

7 Labelling - Transportation - Storage**7.1 Means of delivery**

Virgin granular activated carbon shall be delivered in paper sacks (10 kg to 25 kg), semi-bulk containers (polypropylene bags, metal or cardboard drums, or corrugated boxes containing 200 kg to 800 kg), or in bulk (up to 50 m³).

Pumice, silica sand, silica gravel, anthracite, pyrolyzed coal material and calcium carbonate shall be delivered in bags, semi-bulk containers, or bulk.

In order that the purity of the product is not affected, the means of delivery shall not have been used previously for any different product or it shall have been specially cleaned and prepared before use.

7.2 Risk and safety labelling according to the EU Directives¹⁾

Virgin granular activated carbon, pumice, silica sand, silica gravel, calcium carbonate, anthracite and pyrolyzed coal material are not subject to labelling regulations at the date of the publication of this document.

NOTE Annex I of the Directive 67/548/EEC on Classification, packaging and labelling of dangerous substances and its amendments and adaptations in the European Union contains a list of substances classified by the EU. Substances not in that Annex I should be classified on the basis of their intrinsic properties according to the criteria in the Directive by the person responsible for the marketing of the substance.

7.3 Transportation regulations and labelling

Steam virgin granular activated carbon, pumice, silica sand silica gravel, calcium carbonate, anthracite and pyrolyzed coal material are not dangerous substances at the date of the publication of this document.

Chemically activated virgin granular carbon is listed as UN Number²⁾ 1362.

RID³⁾ ADR⁴⁾: class 4.2, classification code S2, packing group III.

IMDG⁵⁾: class 4.2.

IATA⁶⁾: Prohibited.

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7.4 Marking

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The marking shall include the following :

- a) the name:
- 1) "virgin granular activated carbon "; or
 - 2) "pumice"; or
 - 3) "silica sand"; or
 - 4) "silica gravel"; or
 - 5) "calcium carbonate"; or
 - 6) "anthracite"; or

1) See Bibliography, [1].

2) United Nations Number.

3) Regulations concerning International carriage of Dangerous goods by rail.

4) European Agreement concerning the international carriage of Dangerous goods by Road.

5) International Maritime transport of Dangerous Goods.

6) International Air Transport Association.