

SLOVENSKI STANDARD

SIST EN 12914:2000

01-november-2000

Proizvodi, ki se uporabljajo za pripravo pitne vode - Prašnati perlit

Products used for treatment of water intended for human consumption - Powdered perlite

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Perlite, pulverförmig

Produits utilisés pour le traitement de l'eau destinée à la consommation humaine - Perlite en poudre

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Ta slovenski standard je istoveten z: **EN 12914:1999**

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ICS:

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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12914

August 1999

ICS 71.100.80

English version

Products used for treatment of water intended for human
consumption - Powdered perlite

Produits utilisés pour le traitement de l'eau destinée à la
consommation humaine - Perlite en poudre

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Perlite, pulverförmig

This European Standard was approved by CEN on 16 July 1999.

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.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 2000.

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.

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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.

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1 Scope

This European Standard is applicable to powdered perlite used for treatment of water intended for human consumption. It describes the characteristics of powdered perlite and specifies the requirements and the corresponding test methods for powdered perlite and 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 12901, *Products used for treatment of water intended for human consumption - Inorganic supporting and filtering materials - Definitions.*

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

ISO10058, *Magnesites and dolomites - Chemical analysis.*

3 Definitions and symbols

For the purpose of this standard, the definitions and symbols given in EN 12901 apply.

4 Description

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4.1 Identification

4.1.1 Chemical name

Not applicable.

4.1.2 Synonym or common names

Perlite, expanded perlite.

4.1.3 Chemical formula

Not applicable.

4.1.4 CAS Registry number¹⁾

Not available.

4.1.5 EINECS Reference²⁾

Not available.

¹⁾ Chemical Abstracts Service Registry Number

²⁾ European Inventory of Existing Commercial Chemical Substances

4.2 Commercial form

The product is available in white powder forms in grades differing in permeability.

5 Physical properties

5.1 Appearance

White powder.

5.2 Particle size distribution

5.2.1 Particle size

At least 95 percent by mass (% (m/m)) shall have a particle size less than 1000 μm .

NOTE Other values can be necessary for certain applications. The particle size distribution is commonly specified as 95 % (m/m) less than a given particle size.

The particle size distribution shall be within the manufacturer's declared values.

5.2.2 Uniformity coefficient

Not relevant.

5.2.3 Oversize and undersize particles (standards.iteh.ai)

The proportion of oversize and undersize particles shall be within the manufacturer's declared values.

5.3 Density

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5.3.1 Bulk density packed

The bulk density packed shall be in the range of 200 kg/m^3 to 700 kg/m^3

6 Chemical properties

The composition of the commercial product shall conform to table 1.

Table 1 - Composition of commercial product

Parameter		Limit in % (m/m) of the product
SiO ₂	min.	70
Al ₂ O ₃	min.	10
Na ₂ O + K ₂ O	min.	5
Mass loss at 150 °C	max.	5

NOTE 1 After filling, washing and commissioning of a filter system producing drinking water, powdered perlite should not increase the content of toxic substances. For the purpose of this standard, "toxic substances" are those defined in the EU Directive 80/778/EEC of July 15, 1980 (see [1]).

NOTE 2 Water extractable toxic substances determined in accordance with the method for powders given in EN 12902 can be used to estimate the leaching of toxic substances.

7 Specific properties

The permeability shall be within 15% of the manufacturer's declared value and the cake density shall be within 5% of the manufacturer's declared value.

8 Test methods

8.1 Sampling

Prepare the laboratory sample(s) required by the relevant procedures described in EN 12902.

8.2 Analysis

8.2.1 Particle size distribution

The particle size distribution shall be determined in accordance with EN 12902.

8.2.2 Bulk density packed

The bulk density packed shall be determined in accordance with EN 12902.

8.2.3 Content of silica

The content of silica shall be determined in accordance with EN 12902.

8.2.4 Content of aluminium oxide (standards.iteh.ai)

The content of Al_2O_3 shall be determined in accordance with ISO 10058.

8.2.5 Content of sodium and potassium oxides

The contents of Na_2O and K_2O shall be determined in accordance with ISO 10058.

8.2.6 Mass loss at 150 °C

The mass loss at 150 °C shall be determined using the method for water content described in EN 12902 using a temperature of (150 ± 5) °C.

8.2.7 Permeability

The permeability shall be determined in accordance with EN 12902.

8.2.8 Cake density

The cake density shall be determined in accordance with EN 12902.

9 Labelling, transportation and storage

9.1 Means of delivery

Perlite shall be delivered in bags, big bags or in 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.