

**Produkter för beredning av dricksvatten –
Perlit, pulver**

**Products used for treatment of water
intended for human consumption –
Powdered perlite**

ICS 13.060.20; 71.100.80

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The European Standard EN 12914:2005 has the status of a Swedish Standard. This document contains the official English version of EN 12914:2005.

This standard supersedes the Swedish Standard SS-EN 12914, edition 1.

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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 - Perlit, pulverförmig

This European Standard was approved by CEN on 4 August 2005.

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.

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Foreword

This European Standard (EN 12914:2005) 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of an identical text or by endorsement, at the latest by April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

This European Standard supersedes EN 12914:1999.

Significant technical difference between this edition and EN 12914:1999 is as follows:

- a) Replacement of the reference to EU Directive 80/778/EEC of 15 July 1980 with the latest Directive in force (see [1]).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and 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 European 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 European Standard is subject to regulation or control by National Authorities.

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

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references the latest edition of the referenced document (including any amendments) applies.

EN 12901:1999, *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*

EN ISO 10058, *Magnesites and dolomites - Chemical analysis (ISO 10058:1992)*

3 Terms, definitions and symbols

For the purposes of this European Standard, the terms, definitions and symbols given in EN 12901:1999 apply.

4 Description

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.

EN 12914:2005 (E)**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**

A mass fraction of at least 95% 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 a mass fraction of 95 % 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

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

5.3 Density

The bulk density packed shall be in the range of 200 kg/m³ to 700 kg/m³.

6 Chemical properties

This European Standard specifies the minimum purity requirements for powdered perlite used for the treatment of water intended for human consumption. Limits are given for impurities commonly present in the product. 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 1 Users of this product should check the national regulations in order to clarify whether it is of appropriate purity for treatment of water intended for human consumption, taking into account raw water quality, contents of other impurities and additives used in the products not stated in this product standard.

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 impurities, by-products or additives being present, this shall be notified to the user.

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