

**norm****NEN-EN 12902**

Chemicaliën voor de behandeling van water bestemd voor menselijke consumptie - Hulp- en filtermaterialen - Beproevingmethoden

Publicatie uitsluitend voor commentaar

Chemicals used for treatment of water intended for human consumptions - Supporting and filtering materials - Methods of test

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Voorbeeld  
Preview

ICS

Descriptors :

English version

Chemicals used for treatment of water intended for  
human consumption - Supporting and filtering  
materials - Methods of test

Produits chimiques pour le traitement de l'eau destinée à la consommation humaine - Matériau de filtration et de support - Méthodes d'essai

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Filtermaterialien und Filterhilfsmittel - Testmethoden

This draft European Standard is submitted to the CEN members for CEN enquiry. It has been drawn up by Technical Committee CEN/TC 164 .

If this draft becomes a European Standard, 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.

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Central Secretariat: rue de Stassart 36, B-1050 Brussels

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## Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 164 "Water supply" of which the secretariat is held by l'AFNOR.

This document is currently submitted to CEN enquiry.

voorbeeld  
Preview

## 0 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.

## 1 Scope

This European standard describes methods of test to determine physico-chemical characteristics of Inorganic Supporting and Filtering Materials (ISFM). Examples of ISFM within the scope of these methods are : sand, granular activated carbon, anthracite, expanded aluminosilicates, pumice, pyrolysed coal material.

NOTE : The applicability of the methods is specified in the relevant product standard.

## 2 Normative references

This European Standard incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate place 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 26595	Water quality - Determination of total arsenic - Silver diethyldithiocarbamate spectrophotometric method
prEN TG 950	Chemicals used for treatment of water intended for human consumption - Inorganic supporting and filtering materials - Definitions
ISO 565	Test sieves - Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings
ISO 2395	Test sieves and test sieving - Vocabulary
ISO 2591-1	Test sieving - Part 1 : Methods using test sieves of woven wire cloth and perforated metal plate
ISO 3165	Sampling of chemical products for industrial use - Safety in sampling
ISO 3696	Water for analytical laboratory use - Specifications and test methods
ISO 5666-1	Water quality - Determination of total mercury by flameless atomic absorption spectrometry - Part 1 : Method after digestion with permanganate-peroxodisulfate

- ISO 5725-4 Precision of test methods - Determination of repeatability and reproducibility for a standard test method by inter-laboratory tests
- ISO 6206 Chemical products for industrial use - Sampling - Vocabulary
- ISO 6703-1 Water quality - Determination of cyanide - Part 1 : Determination of total cyanide
- ISO 6788 Aggregates - Measurement of densities, porosity, absorption coefficient and water content of finegravel and pebbles
- ISO 8213 Chemical product for industrial use - Sampling techniques - Solid chemical products in the form of particles varying from powders to coarse lumps
- ISO 8298 Determination of plutonium in nitric acid solutions - Method by oxidation by cerium(IV), reduction by iron(II) ammonium sulfate and amperometric back-titration with potassium dichromate
- ISO 9174 Water quality - Determination of total chromium - Atomic absorption spectrometric methods
- ISO 9276-1 Representation of results of particle size analysis - Part 1 : Graphical representation
- ISO 9965 Water quality - Determination of selenium - Atomic absorption spectrometric method (hydride technique)
- ISO/DIS 11885

### 3 Definitions and symbols

For the purposes of this European standard, the definitions given in EN TG 950 shall apply.

## 4 Sampling

### 4.1 General considerations

The purpose of the sampling of Inorganic Supporting and Filtering Materials (ISFM) is to be representative; this purpose may be difficult to achieve for example because of segregation if the ISFM is stored in stockpiles.

Therefore the sampling shall preferably be from a flowing stream. The sampling of a stored ISFM (any kind of storage) is more difficult.



#### 4.2 Sampling of a flowing stream

The bulk sample shall be obtained either :

- from a falling stream by taking a part of the whole falling stream ;

or

- from a conveyor belt by stopping the conveyor in order to take a full section across the conveyor belt.

#### 4.3 Sampling in a storage unit

- Container (lorry, wagon) : Take the required number of samples after having removed about 30 cm depth of media ;
- Stockpile : It is not recommended, but if necessary use the following method : take a steel tube with the following characteristics : long, thin walls, smooth. Penetrate the tube into the pile horizontally or vertically and take the amount in the tube. Penetrate enough times to obtain the amount required.

#### 4.4 Laboratory sample

A laboratory sample is obtained from the bulk sample by using a divider (see ISO 8213).

#### 4.5 Sampling report

The sampling report shall include the following information :

- date, place of sampling, site description ;
- name of sampling person and witness (if any) ;
- identification of ISFM (name, manufacturer, batch number, ...) ;
- method used for sampling ;
- volume of the bulk sample ;
- method of sample division ;
- amount, size and designation of laboratory samples ;
- destination of the laboratory samples (e.g. producer laboratory, customer laboratory, ...).

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