



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 12902:2005**

ICS 71.100.80

**PRODUCTS USED FOR TREATMENT OF  
WATER INTENDED FOR HUMAN  
CONSUMPTION - INORGANIC SUPPORTING  
AND FILTERING MATERIALS - METHODS OF  
TEST**

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EUROPEAN STANDARD

**EN 12902**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2004

ICS 71.100.80

Supersedes EN 12902:1999

English version

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

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

Produkte zur Aufbereitung von Wasser für den  
menschlichen Gebrauch - Anorganische Filterhilfs- und  
Filtermaterialien - Prüfverfahren

This European Standard was approved by CEN on 30 September 2004.

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, 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.



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## **Foreword**

This document (EN 12902:2004) 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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 12902:1999.

Significant technical differences between this edition and EN 12902:1999 are as follows:

- a) Addition in 5.2.6 of a requirement to round results to the nearest 10 kg/m<sup>3</sup>.
- b) Modification of Table 4 to specify analytical performance characteristics instead of specific methods.
- c) Modification of 6.5 to allow the use of a larger test sample.
- d) Deletion of clause 7 (Determination of polynuclear aromatic hydrocarbons (PAH) in aqueous extracts).
- e) Correction of figure A.2.

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.

## EN 12902:2004 (E)

### 1 Scope

This document specifies methods of test to determine physical and chemical properties of Inorganic Supporting and Filtering Materials (ISFM).

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

### 2 Normative references

The following referenced documents are 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 12901:1999, *Products used for treatment of water intended for human consumption – Inorganic supporting and filtering materials – Definitions.*

EN ISO 3696, *Water for analytical laboratory use – Specification and test methods (ISO 3696:1987).*

ISO 562, *Hard coal and coke – Determination of volatile matter.*

ISO 565, *Test sieves – Metal wire cloth, perforated metal plate and electroformed sheet – Nominal sizes of openings.*

ISO 609, *Solid mineral fuels – Determination of carbon and hydrogen – High temperature combustion method.*

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 6206, *Chemical products for industrial use – Sampling – Vocabulary.*

ISO 8213, *Chemical products for industrial use – Sampling techniques – Solid chemical products in the form of particles varying from powders to coarse lumps.*

ISO 9276-1, *Representation of results of particle size analysis – Part 1: Graphical representation.*

ISO 13320-1, *Particle size analysis – Laser diffraction methods – Part 1: General principles.*

### 3 Terms and definitions

For the purpose of this document, the terms and definitions given in EN 12901:1999 apply.

### 4 Sampling

Observe the recommendations of ISO 3165 and see ISO 6206. Sample in accordance with ISO 8213 and obtain the laboratory sample from the bulk sample by using a divider.

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