

IRISH STANDARD

I.S. EN 13443-2:2005+A1:2007

ICS 13.060.20 91.140.60

WATER CONDITIONING EQUIPMENT INSIDE
BUILDINGS - MECHANICAL FILTERS - PART
2: PARTICLE RATING 1 MM TO LESS THAN 80
MM - REQUIREMENTS FOR PERFORMANCE,
SAFETY AND TESTING

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Water conditioning equipment inside buildings - Mechanical filters - Part 2: Particle rating 1 μ m to less than 80 μ m - Requirements for performance, safety and testing

Appareils de traitement d'eau à l'intérieur des bâtiments -Filtres mécaniques - Partie 2: Particules de taille 1 µm à 80 µm - Exigences de performances, de sécurité et essais

Anlagen zur Behandlung von Trinkwasser innerhalb von Gebäuden - Mechanisch wirkende Filter - Teil 2: Filterfeinheit 1 µm bis 80 µm - Anforderungen an Ausführung, Sicherheit und Prüfung

This European Standard was approved by CEN on 24 December 2004 and includes Amendment 1 approved by CEN on 10 May 2007.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 13443-2:2005+A1:2007 (E)

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EN 13443-2:2005+A1:2007 (E)

Foreword

This document (EN 13443-2:2005+A1:2007) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2007 and conflicting national standards shall be withdrawn at the latest by December 2007.

This document includes Amendment 1, approved by CEN on 2007-05-10.

This document supersedes EN 13443-2:2005.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

- a) this document provides no information as to whether the product may be used without restriction in any of the Member States.
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulation concerning the use and/or the characteristics of this product remain in force.

This is the second part of the two-part standard for mechanical filters. Part 1 is concerned with mechanical filters with a particle size rating from 80 µm to 150 µm.

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

EN 13443-2:2005+A1:2007 (E)

1 Scope

This document specifies requirements relating to the construction, performance and methods of testing for mechanical filters for the removal of suspended matter in drinking water installations inside buildings. It applies to filters with a filtration rating from 1 μ m up to less than 80 μ m and which are intended for use in systems with a minimum pressure rating of PN 6, connections between DN 15 and DN 100 and service temperature of less than 30 °C.

This document is applicable to back-washable filters, integral filters and those designed for replaceable cartridges. It only concerns units that are permanently connected to the mains supply at point of entry or point of use.

Part 1 of this standard (EN 13443-1) is a separate document and deals with filters with a particle rating between $80 \mu m$ and $150 \mu m$.

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 872, Water quality — Determination of suspended solids — Method by filtration through glass fibre filters

EN 1717, Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

EN 13443-1:2002, Water conditioning equipment inside buildings — Mechanical filters — Part 1: Particle rating 80 μm to 150 μm — Requirements for performances, safety and testing

ISO 304, Surface active agents — Determination of surface tension by drawing up liquid films

ISO 1219-1, Fluid power systems and components — Graphic symbols and circuit diagrams — Part 1: Graphic symbols

ISO 4021, Hydraulic fluid power — Particulate contamination analysis — Extraction of fluid samples from lines of an operating system

ISO 12103-1, Road vehicles — Test dust for filter evaluation — Part 1: Arizona test dust

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

average pore diameter (DMP)

value, in μm , of the pore diameter which corresponds to the mode of the relative frequency of pore diameter distribution of a filter media determined by air porosimetry

3.2

backwashable filter

filter unit which is equipped with facilities, manual or automatic, to enable the periodic, in situ cleaning of the filter element by reversing the flow of water through the element

3.3

bubble point

lowest air pressure at which a stream of bubbles appears at a point of the filter media surface when immersed under air pressure in a wetting liquid in accordance with Annex C



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