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Standards

Irish Standard  
I.S. EN 16713-1:2016

# Domestic swimming pools - Water systems - Part 1: Filtration systems - Requirements and test methods

**I.S. EN 16713-1:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

EN 16713-1:2016

*Published:*

2016-02-10

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2016-02-28

ICS number:

97.220.10

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 16713-1:2016 is the adopted Irish version of the European Document EN 16713-1:2016, Domestic swimming pools - Water systems - Part 1: Filtration systems - Requirements and test methods

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**EUROPEAN STANDARD**

**EN 16713-1**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

February 2016

ICS 97.220.10

English Version

## **Domestic swimming pools - Water systems - Part 1: Filtration systems - Requirements and test methods**

Piscines privées à usage familial - Systèmes de  
distribution d'eau - Partie 1: Systèmes de filtration -  
Exigences et méthodes d'essai

Schwimmbäder für private Nutzung - Wassersysteme -  
Teil 1: Filtrationssysteme - Anforderungen und  
Prüfverfahren

This European Standard was approved by CEN on 5 December 2015.

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**EN 16713-1:2016 (E)****European foreword**

This document (EN 16713-1:2016) has been prepared by Technical Committee CEN/TC 402 “Domestic Pools and Spas”, 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of an identical text or by endorsement, at the latest by August 2016, and conflicting national standards shall be withdrawn at the latest by August 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 16713, *Domestic swimming pools — Water systems*, currently comprises:

- *Part 1: Filtration systems— Requirements and test methods;*
- *Part 2: Circulation systems— Requirements and test methods;*
- *Part 3: Water treatment— Requirements.*

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



## **Introduction**

The filtration system in any swimming pool is there to remove the suspended matter from the pool water. Filtration is achieved by passing the water through a suitable medium contained in a filter body.

It is generally accepted that there are four types of filters associated with swimming pools:

- a) pre-coat filtration/diatomaceous earth (DE);
- b) disposable cartridge or filter bag;
- c) graded aggregate (single/multi-layer-filter);
- d) other filters (e.g. membrane systems).

**EN 16713-1:2016 (E)****1 Scope**

This European Standard specifies filtration requirements and test methods of filter elements or media, filtration units or systems designed to be used in domestic swimming pools.

This standard applies to swimming pools as defined in EN 16582-1 and will be read in conjunction with it.

This standard does not apply to:

- pools for public use covered by EN 15288-1;
- spas for domestic or public use;
- paddling pools according to EN 71-8;
- pre filtration;
- natural and nature like pools.

NOTE For circulation systems see EN 16713-2 and for treatment systems EN 16713-3.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 837-1, *Pressure gauges — Part 1: Bourdon tube pressure gauges — Dimensions, metrology, requirements and testing*

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

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

EN ISO 7010:2012, *Graphical symbols — Safety colours and safety signs — Registered safety signs (ISO 7010:2011)*

HD 60364-7-702, *Low-voltage electrical installations — Part 7-702: Requirements for special installations or locations — Swimming pools and fountains (IEC 60364-7-702)*

ISO 3864-2, *Graphical symbols — Safety colours and safety signs — Part 2: Design principles for product safety labels*

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

ISO 21501-3, *Determination of particle size distribution — Single particle light interaction methods — Part 3: Light extinction liquid-borne particle counter*

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