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Irish Standard
I.S. EN ISO 12956:2010

Geotextiles and geotextile-related products - Determination of the characteristic opening size (ISO 12956:2010)

I.S. EN ISO 12956:2010

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English Version

Geotextiles and geotextile-related products - Determination of the characteristic opening size (ISO 12956:2010)

Géotextiles et produits apparentés - Détermination de l'ouverture de filtration caractéristique (ISO 12956:2010)

Geotextilien und geotextilverwandte Produkte - Bestimmung der charakteristischen Öffnungsweite (ISO 12956:2010)

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Foreword

This document (EN ISO 12956:2010) has been prepared by Technical Committee ISO/TC 221 "Geosynthetics" in collaboration with Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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Second edition
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**Geotextiles and geotextile-related
products — Determination of the
characteristic opening size**

*Géotextiles et produits apparentés — Détermination de l'ouverture de
filtration caractéristique*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 12956 was prepared by Technical Committee ISO/TC 221, *Geosynthetics*.

This second edition cancels and replaces the first edition (ISO 12956:1999), which has been technically revised.

Geotextiles and geotextile-related products — Determination of the characteristic opening size

1 Scope

This International Standard specifies a method for the determination of the characteristic size of the openings of a single layer of a geotextile or geotextile-related product using the wet-sieving principle.

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.

ISO 9862, *Geosynthetics — Sampling and preparation of test specimens*

ISO 10320, *Geotextiles and geotextile-related products — Identification on site*

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

ISO 2591-1, *Test sieving — Part 1: Methods using test sieves of woven wire cloth and perforated metal plate*

3 Symbols

For the purposes of this document, the following symbols apply.

3.1

d_n

particle size for which n % mass fraction is smaller than the mass of measured particles

3.2

O_{90}

size of opening which is equal to the particle of size d_{90} of the granular material which passes through the geotextile or geotextile-related product

3.3

C_u

coefficient of uniformity, defined as d_{60}/d_{10}

4 Principle

The particle size distribution of a graded granular material (usually soil) is determined after washing through a single layer of the geotextile or geotextile-related product used as a sieve, without load. The characteristic opening size corresponds to a specified size of the granular material passed.

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