



SLOVENSKI STANDARD SIST EN ISO 12958-1:2021

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SIST EN ISO 12958:2012

Geotekstilije in geotekstilijam sorodni izdelki - Ugotavljanje zmogljivosti pretoka vode v ravnini - 1. del: Indeksni preskus (ISO 12958-1:2020)

Geotextiles and geotextile-related products - Determination of water flow capacity in their plane - Part 1: Index test (ISO 12958-1:2020)

Geotextilien und geotextilverwandte Produkte - Bestimmung des Wasserleitvermögens in der Ebene - Teil 1: Index-Prüfverfahren (ISO 12958-1:2020)
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Géotextiles et produits apparentés - Détermination de la capacité de débit dans leur plan - Partie 1: Essai index (ISO 12958-1:2020)

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59.080.70 Geotekstilije Geotextiles

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EUROPEAN STANDARD

EN ISO 12958-1

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Geotextiles and geotextile-related products - Determination of water flow capacity in their plane - Part 1: Index test (ISO 12958-1:2020)

Géotextiles et produits apparentés - Détermination de
la capacité de débit dans leur plan - Partie 1: Essai
index (ISO 12958-1:2020)

Geotextilien und geotextilverwandte Produkte -
Bestimmung des Wasserleitvermögens in der Ebene
- Teil 1: Index-Prüfverfahren (ISO 12958-1:2020)

This European Standard was approved by CEN on 12 October 2020.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 12958-1:2020) 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 May 2021, and conflicting national standards shall be withdrawn at the latest by May 2021.

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

This document supersedes EN ISO 12958:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 12958-1:2020 has been approved by CEN as EN ISO 12958-1:2020 without any modification.

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INTERNATIONAL
STANDARD

ISO
12958-1

First edition
2020-10

**Geotextiles and geotextile-related
products — Determination of water
flow capacity in their plane —**

**Part 1:
Index test**

iTeh STANDARD PREVIEW
*Geotextiles et produits apparentés — Détermination de la capacité de
débit dans leur plan —
(standards.iteh.ai)
Partie 1: Essai index*

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ISO 12958-1:2020(E)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 221, *Geosynthetics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 189, *Geosynthetics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 12958-1, together with ISO 12958-2, cancels and replaces ISO 12958:2010, which has been technically revised.

The main changes to ISO 12958:2010 are as follows:

- introduction of the concept of index versus performance test;
- permission given to test using rigid/rigid, soft/soft or soft/rigid boundaries;
- addition of guidance for testing cusped sheets on a single side and for testing multiline drainage geocomposites;
- withdrawal of apparatus types b) and c);
- several cosmetic improvements, in particular terms and definitions, procedure, calculation and reporting.

A list of all parts in the ISO 12958 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Geotextiles and geotextile-related products — Determination of water flow capacity in their plane —

Part 1: Index test

1 Scope

This document specifies a method for determining the constant-head water flow capacity within the plane of a geotextile or geotextile-related product. This document describes the in-plane water flow index test, only applicable to factory-assembled products. For the in-plane water flow performance test, see ISO 12958-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2854, *Statistical interpretation of data — Techniques of estimation and tests relating to means and variances*

ISO 5813, *Water quality — Determination of dissolved oxygen — Iodometric method*

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

ISO 9863-1, *Geosynthetics — Determination of thickness at specified pressures — Part 1: Single layers*

ISO 10320, *Geosynthetics — Identification on site*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

normal compressive stress

σ

compressive stress normal to the plane of the geotextile or geotextile-related product, expressed in kilopascals [kPa]

3.2

in-plane flow

Q

fluid flow within the geotextile or geotextile-related product and parallel to its plane, expressed in litres per second [l/s]