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Geosynthetics - Determination of compression behaviour - Part 1: Compressive creep properties (ISO 25619-1:2021)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

**Geosynthetics - Determination of compression behaviour -
Part 1: Compressive creep properties (ISO 25619-1:2021)**

Géosynthétiques - Détermination du comportement en
compression - Partie 1: Propriétés de fluage en
compression (ISO 25619-1:2021)

Geokunststoffe - Bestimmung des Druckverhaltens -
Teil 1: Eigenschaften des Druckkriechens (ISO 25619-
1:2021)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 25619-1:2021 (E)

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European foreword

This document (EN ISO 25619-1:2021) has been prepared by Technical Committee ISO/TC 146 "Air quality" 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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.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.

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Endorsement notice

The text of ISO 25619-1:2021 has been approved by CEN as EN ISO 25619-1:2021 without any modification.

**INTERNATIONAL
STANDARD**

**ISO
25619-1**

Second edition
2021-02

**Geosynthetics — Determination of
compression behaviour —**

**Part 1:
Compressive creep properties**

*Géosynthétiques — Détermination du comportement en
compression —*

Partie 1: Propriétés de fluage en compression



Reference number
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ISO 25619-1:2021(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).

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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 second edition cancels and replaces the first edition (ISO 25619-1:2008) which has been technically revised.

The main changes compared to the previous edition are as follows:

- normative references have been updated;
- dimension and shape of the specimen for different types of geosynthetics have been introduced;
- calculation of the correct area for structure in which loading is resisted at defined points or at defined lines have been introduced;
- the drawing of a test apparatus for compressive shear test that was not described in the test has been deleted.

A list of all parts in the ISO 25619 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.

Geosynthetics — Determination of compression behaviour —

Part 1: Compressive creep properties

1 Scope

This document specifies index test methods for determining the compressive creep properties of geosynthetic products. The test specimens are subjected either to normal compressive loading or to a combination of normal compressive loading and shear loading.

The test method with a normal load only (see [Clause 5](#)) is the standard method.

The test method in which combined normal and shear loads are applied (see [Clause 6](#)) is intended for products that are sensitive to shear failure, i.e. which have a columnar or cusped structure.

The tests are carried out on dry specimens or on specimens immersed in water. The test is intended to be carried out with the specimen immersed in water when any part of the geosynthetic product contains a hydrophilic polymer.

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 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

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

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

ISO 10318-1, *Geosynthetics — Part 1: Terms and definitions*

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