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Geosynthetics - Part 1: Vocabulary (ISO 10318-1:2026)

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EUROPEAN STANDARD

**EN ISO 10318-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2026

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Supersedes EN ISO 10318-1:2015, EN ISO 10318-1:2015/A1:2018

English Version

## Geosynthetics - Part 1: Vocabulary (ISO 10318-1:2026)

Géosynthétiques - Partie 1: Vocabulaire (ISO 10318-1:2026)

Geokunststoffe - Teil 1: Begriffe (ISO 10318-1:2026)

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## European foreword

This document (EN ISO 10318-1:2026) 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of an identical text or by endorsement, at the latest by July 2026, and conflicting national standards shall be withdrawn at the latest by July 2026.

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 10318-1:2026 has been approved by CEN as EN ISO 10318-1:2026 without any modification.



**International  
Standard**

**ISO 10318-1**

**Geosynthetics —  
Part 1:  
Vocabulary**

*Géosynthétiques —  
Partie 1: Vocabulaire*

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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.

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 document 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](http://www.iso.org/directives)).

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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 10318-1:2015), which has been technically revised. It also incorporates the Amendment ISO 10318-1:2015/Amd 1:2018.

The main changes are as follows:

- modification of definitions for reinforcement ([3.1.4](#)) and stress relief ([3.1.8](#));
- addition of the following new terms defining products: geomat ([3.2.6.2](#)), geospacer ([3.2.6](#)), geocuspate ([3.2.6.1](#)), geomembrane ([3.2.8.2](#)), geosynthetic clay liner ([3.2.8.3.1](#)), bituminous geomembrane ([3.2.8.4.1](#)), geosynthetic cementitious composite ([3.2.11](#)), and geofoam ([3.2.12](#));
- addition of the following new definitions for properties: energy absorption ([3.3.4.4](#)) and energy absorption index ([3.3.4.5](#)).

A list of all parts in the ISO 10318 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](http://www.iso.org/members.html).

# Geosynthetics —

## Part 1: Vocabulary

### 1 Scope

This document defines terms related to the functions, products, and properties in geosynthetics, and terms used in International Standards on geosynthetics.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

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

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

#### 3.1 Terms related to functions

##### 3.1.1

##### **drainage**

collection and transporting of either precipitation, ground water, or other fluids, or all three, in the plane of a geosynthetic material

##### 3.1.2

##### **filtration**

restraining the uncontrolled passage of soil or other particles subjected to hydrodynamic forces, while allowing the passage of fluids into or across a geosynthetic material

##### 3.1.3

##### **protection**

preventing or limiting local damage to a given element or material by the use of a geosynthetic material

##### 3.1.4

##### **reinforcement**

use of the tensile stress-strain behaviour of a geosynthetic to improve the mechanical performance of a system or structure made of soil or other construction materials

##### 3.1.5

##### **separation**

prevention from intermixing of adjacent dissimilar soils or fill materials by the use of a geosynthetic material

##### 3.1.6

##### **surface erosion control**

use of geosynthetic materials to prevent or limit soil or other particle movements at the surface

Note 1 to entry: For example, a slope.