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**Geosynthetics —**

Part 1:  
**Terms and definitions**

**Géosynthétiques —**

Partie 1:  
**Termes et définitions**



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

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 221, *Geosynthetics*.

This first edition of ISO 10318-1 cancels and replaces ISO 10318:2005, which has been technically revised.

ISO 10318 consists of the following parts, under the general title *Geosynthetics*:

- *Part 1: Terms and definitions*
- *Part 2: Symbols and pictograms*

# Geosynthetics —

## Part 1: Terms and definitions

### 1 Scope

The intent of this part of ISO 10318 is to define terms related to functions, products, properties, and other terms used in EN and ISO geosynthetics International Standards. Definitions of terms not included in this part of ISO 10318 can be found in the International Standards describing appropriate test methods.

NOTE See also the ISO online browsing platform (OBP): [www.iso.org/obp/ui/](http://www.iso.org/obp/ui/)

### 2 Terms and definitions

#### 2.1 Terms related to functions

##### 2.1.1

##### **drainage**

collecting and transporting of precipitation, ground water, and/or other fluids in the plane of a geosynthetic material

##### 2.1.2

##### **filtration**

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

##### 2.1.3

##### **protection**

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

##### 2.1.4

##### **reinforcement**

use of the stress-strain behaviour of a geosynthetic material to improve the mechanical properties of soil or other construction materials

##### 2.1.5

##### **separation**

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

##### 2.1.6

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

use of a geosynthetic materials to prevent or limit soil or other particle movements at the surface of, for example, a slope

##### 2.1.7

##### **barrier**

use of a geosynthetic to prevent or limit the migration of fluids