INTERNATIONAL STANDARD



Second edition 2010-04-15

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

Géotextiles et produits apparentés — Détermination de la capacité de débit dans leur plan



Reference number ISO 12958:2010(E)

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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.

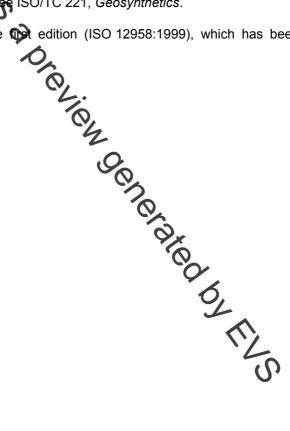
International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 12958 was prepared by Technical Committee ISO/TC 221, Geosynthetics.

This second edition cancels and replaces the tedition (ISO 12958:1999), which has been technically revised.



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

1 Scope

This International Standard specifies a method for determining the constant-head water flow capacity within the plane of a geotextile or geotextile-related product.

NOTE 1 If the full water flow capacity characteristics of the geotextile or geotextile-related product have previously been established, then for control purposes it can be sufficient to determine the water flow capacity at two loads and both gradients.

NOTE 2 The compressibility of the product over time will substantially influence the in-plane water flow capacity. Test methods for assessing the compressive creep behaviour of geotextiles or geotextile-related products are described in ISO 25619-1.

The test report is judged in conjunction with the long-term compressive creep behaviour in order to assess the long-term flow capacity.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undeted 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 Sydometric method

ISO 9862, Geosynthetics — Sampling and preparation of test specimer

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

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

3 Terms and definitions

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

3.1

normal compressive stress

compressive stress components normal to the plane of the geotextile or geotextile-related product

NOTE The normal compressive stress is expressed in kilopascals.

3.2

in-plane flow

fluid flow within the geotextile or geotextile-related product and parallel to its plane