# TECHNICAL REPORT



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## Geotextiles and geotextile-related products — Screening test method for determining the resistance to liquids

*Géotextiles et produits apparentés — Méthode d'essai pour la détermination de la résistance aux liquides* 



### Foreword

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The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite topeated efforts;
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International Organization for Standardization Case postale 56 • CH-1211 Genève 20 • Switzerland Internet iso@iso.ch

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Throughout the text of this document, read "..this European prestandard..." to mean "...this Technical Report...".

This document is being issued in the Technical Report (type 2) series of The field of a the publications (according to subclause G.3.2.2 of Part 1 of the ISO/IEC

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#### Introduction

In nearly all applications geotextiles and geotextile-related products (geotextile products) may be in contact with aqueous solutions of acids, bases or dissolved oxygen. The resistance of geotextile products to these chemicals depends on the

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#### 1 Scope

This standard specifies methods for screening the resistance of geotextile products to liquids while not subjecting them to external mechanical stress.

The standard is applicable to all geotextiles and geotextile related products.

NOTE: This standard only considers conditions where the specimens are fully immersed in the liquids. Though outside the scope of this standard, the test conditions may be modified to accommodate particular applications, eg gaseous media. This standard does not preclude use for test specimens that are pre-treated by some method, e.g. by weathering, aqueous extraction conditions or installation damage.

## 2 Normative references

This European prestandard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European prestandard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ENV 12226 Geotextiles and geotextile-related products - General tests for evaluation following durability testing

ISO 3696 Water for analytical laboratory us Specification and test methods

#### 3 Principle

Test specimens are completely immersed in a test liquid a given test duration at a fixed temperature. The properties of the test specimens are tested before and after immersion and if applicable after drying, and wherever possible, the test results are compared with those of control specimens stored under reference conditions.

#### 4 General requirements and procedure

#### 4.1 Apparatus

A container, e.g. a pneumatic vessel, is to be used, equipped with:

a sealing lid or equivalent device and if necessary a reflux condenser or equivalent device to restrict evaporation of volatile components;
a stirring or equivalent device to maintain homogeneity of the liquid and the exchange of matter between the liquid and the specimens;
specimen holders to ensure correct placing of the specimens (see 4.6.2), the free distance between specimens being at least 10 mm;
at least one closable aperture in the lid for access to control the composition of the liquid.

