

Geotextiles and geotextile-related products - Screening test method for determining the resistance to acid and alkaline liquid

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resistance to acid and alkaline liquid

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14030:2002 sisaldab Euroopa standardi EN 14030:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.01.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14030:2002 consists of the English text of the European standard EN 14030:2001.</p> <p>This document is endorsed on 16.01.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies methods for screening the resistance of geotextile products to liquids while not subjecting them to external mechanical stress.</p>	<p>Scope: This standard specifies methods for screening the resistance of geotextile products to liquids while not subjecting them to external mechanical stress.</p>
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ICS 59.080.70

Võtmesõnad: acid resistance, alkaline, alkali-resistance tests, chemical resistance, geotextiles, high temperature tests, high-temperature testing, hydrolytic stability, immersion tests, liquids, resistance, testing

English version

Geotextiles and geotextile-related products - Screening test
method for determining the resistance to acid and alkaline
liquids (ISO/TR 12960:1998, modified)

Géotextiles et produits apparentés - Méthode d'essai
sélective pour la détermination de la résistance aux liquides
acides et alcalines (ISO/TR 12960:1998, modifiée)

Geotextilien und geotextilverwandte Produkte -
Auswahlprüfverfahren zur Bestimmung der Beständigkeit
gegen Säure und alkalische Flüssigkeiten (ISO/TR
12960:1998, modifiziert)

This European Standard was approved by CEN on 29 September 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN.

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 May 2002, and conflicting national standards shall be withdrawn at the latest by May 2002.

This European Standard supersedes ENV ISO 12960:1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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 one hand on polymer formulation, processing, textile structure and the presence of existing damage and on the other hand on the composition of the liquid and in situ conditions such as temperature, pressure and the presence of further mechanical stress.

It is the purpose of this standard to provide a method of screening (index testing) the resistance of geotextile products to these acids and bases.

Since an index test requires exposure times that are short compared to the expected lifetimes of geotextile products, it is necessary to accelerate the process. The data obtainable are suitable for screening but not for deriving performance data such as lifetime, unless supported by further evidence.

NOTE This standard should be used with reference to CR ISO 13434.

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.

Method A applies particularly to polyamides and method B to polyesters and polyamides.

The test results should be interpreted in the context of site conditions.

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, e.g. 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 Standard 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 Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12226, *Geotextiles and geotextile-related products - General tests for evaluation following durability testing.*

ISO 3696:1987, *Water for analytical laboratory use - Specification and test methods.*

3 Principle

Test specimens are completely immersed in a test liquid for a given test duration at a fixed temperature. The properties of the test specimens are tested before and after immersion