



SLOVENSKI STANDARD SIST EN ISO 9864:2005

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Geosynthetics - Test method for the determination of mass per unit area of geotextiles and geotextile-related products (ISO 9864:2005)

Geokunststoffe - Prüfverfahren zur Bestimmung der flächenbezogenen Masse von Geotextilien und geotextilverwandten Produkten (ISO 9864:2005)

Géosynthétiques - Méthode d'essai pour la détermination de la masse surfacique des géotextiles et produits apparentés

Ta slovenski standard je istoveten z: EN ISO 9864:2005

ICS:

59.080.70 Geotekstilije Geotextiles

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9864

February 2005

ICS 59.080.70

English version

Geosynthetics - Test method for the determination of mass per unit area of geotextiles and geotextile-related products (ISO 9864:2005)

Géosynthétiques - Méthode d'essai pour la détermination de la masse surfacique des géotextiles et produits apparentés (ISO 9864:2005)

Geokunststoffe - Prüfverfahren zur Bestimmung der flächenbezogenen Masse von Geotextilien und geotextilverwandten Produkten (ISO 9864:2005)

This European Standard was approved by CEN on 15 November 2004.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN ISO 9864:2005) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN in collaboration with Technical Committee ISO/TC 221 " Geosynthetics".

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 August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

This document supersedes EN 965:1995

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

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EN ISO 9864:2005 (E)**1 Scope**

This document specifies a method for the determination of mass per unit area of geotextiles and geotextile-related products for identification purposes and for use in technical data sheets.

The method is applicable to all geotextiles and geotextile-related products.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 554 *Standard atmospheres for conditioning and/or testing — Specifications.*

EN ISO 9862, *Geosynthetics — Sampling and preparation of test specimens (ISO 9862:2005).*

3 Principle

The mass per unit area is calculated by weighing square or circular specimens of known dimensions cut from positions distributed over the full width and length of the sample.

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4 Procedure**4.1 Specimens**

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Cut no less than ten specimens in accordance with EN ISO 9862 to a nominal size of 100 cm², using a die.

Cut the specimens in such a way that they are representative of the material to be tested. Measure the specimens to an accuracy of 0,5 %. If the structure of the product is such that a 100 cm² specimen is not representative, it may be necessary to use a larger specimen size in order to achieve the necessary accuracy of measurement.

Geotextile-related products with relatively large mesh sizes – such as geogrids or geonets – shall be cut half way between two links of the constituent elements. A specimen shall include at least 5 constituent elements in both directions. The area of the specimen shall be individually determined for each specimen.

Condition the specimens in accordance with ISO 554 for a period of 24 h unless it can be shown that the results are not affected by omitting this procedure.

4.2 Weighing

Weigh each specimen to an accuracy of 10 mg.

5 Expression of results

Calculate the mass per unit area ρ_A of each specimen, expressed in grams per square metre, using the equation

$$\rho_A = \frac{m \times 10\,000}{A}$$

where:

- m is the mass of the specimen, in g;
- A is the area of the specimen, in cm^2 .

Calculate the mean mass per unit area, rounding the result to the nearest gram per square metre, and the coefficient of variation.

6 Test report

The test report shall include the following particulars:

- a) statement that the test was performed in accordance with this document;
- b) number of specimens tested;
- c) conditioning atmosphere used;
- d) in case of a specimen size larger than 100 cm^2 , the size used, and a description (words, sketch or photograph) of the structure;
- e) mean value of mass per unit area, in grams per square metre;
- f) coefficient of variation;
- g) details of any deviation from the specified test procedure;
- h) date of the test.