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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

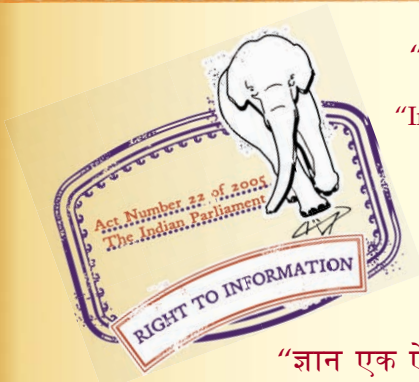
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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 14716 (1999): Geotextiles - Determination of Mass Per Unit Area [TXD 30: Geotextiles and Industrial Fabrics]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

भूवस्त्रादि — प्रति इकाई क्षेत्र में संहति ज्ञात करना

Indian Standard

**GEOTEXTILES — DETERMINATION OF MASS
PER UNIT AREA**

ICS 59.080.70

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 9864 : 1990 'Geotextiles — Determination of mass per unit area', issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Geotextiles and Industrial Fabrics Sectional Committee and approval of the Textile Division Council.

The text of ISO standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, the following International Standards are referred to. Read in their respective places the following:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Correspondence</i>
ISO 554 : 1976 Standard atmospheres for conditioning and/or testing — Specifications	IS 6359 : 1971 Method for conditioning of textiles	Technically Equivalent
ISO 9862 : 1990 Geotextiles — Sampling and preparation of test specimens	IS 14706 : 1999 Geotextiles — Sampling and preparation of test specimens	do

Indian Standard

GEOTEXTILES — DETERMINATION OF MASS PER UNIT AREA

1 Scope

1.1 This International Standard specifies a method for the determination of the mass per unit area of geotextiles for identification purposes and for use in technical data sheets.

1.2 The method is applicable to all geotextiles.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications*.

ISO 9862:1990, *Geotextiles — Sampling and preparation of test specimens*.

3 Principle

The mass per unit area is calculated by weighing small square or circular specimens of known dimensions.

4 Specimens

The specimens shall be cut in such a way that they are representative of the material to be tested.

Cut not less than ten specimens in accordance with ISO 9862 and to a nominal size of 100 cm², unless the structure of the geotextile is such that a 100 cm² specimen is not representative, in which case a larger specimen size shall be used.

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.

5 Procedure

Determine the area of each specimen to an accuracy of 0,5 %.

Weigh each specimen to an accuracy of 0,1 %.

6 Expression of results

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

$$\rho_A = \frac{m \times 10^4}{A}$$

where

m is the mass, in grams, of the specimen;

A is the area, in square centimetres, of the specimen.

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

7 Test report

The test report shall include the following particulars:

- a statement that the test was performed in accordance with this International Standard;
- the number of specimens tested;
- the conditioning atmosphere used;
- in the case of a specimen size larger than 100 cm², give the size used, and a description (words or sketch) of the structure;

- e) the results of the test (see clause 6 and note 1);
- f) details of any deviation from the specified test procedure;

- g) the date of the test.

NOTE 1 Upon request, the value for each individual test specimen can be given.

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Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Handbook' and 'Standards : Monthly Additions'.

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 323 01 31, 323 94 02, 323 33 75

Telegrams: Manaksanstha
(Common to
all offices)

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

Telephone

{ 323 76 17
323 38 41

Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola
CALCUTTA 700054

{ 337 84 99, 337 85 61
337 86 26, 337 86 62

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022

{ 60 38 43
60 20 25

Southern : C. I. T. Campus, IV Cross Road, CHENNAI 600113

{ 235 02 16, 235 04 42
235 15 19, 235 23 15

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400093

{ 832 92 95, 832 78 58
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