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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13762-2009

Replacing GB/T 13762-1992

**Geosynthetics -- Test method for the determination of mass per
unit area of geotextiles and geotextile-related products**

土工合成材料 土工布及土工布有关产品单位面积质量的测定方法

(English Translation)

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 4.1 Sample Preparation

Foreword

This standard uses the redrafted law revision adopted ISO 9864:2005 "Geosynthetics geotextiles and geotextile related products unit Method for determining the area of \u200b\u200bquality. " This standard ISO 9864:2005 The main differences are as follows.

--- Normative references in the international standard in place by the corresponding national standards. Wherein ISO 554 "standard atmospheric testing" by the repair Change of use ISO 139 GB/T 6529 instead.

This standard replaces GB/T 13762-1992 "method for the determination geotextile mass per unit area." this standard compared with GB/T 13762-1992 main changes are as follows.

--- Standard name was changed to "Determination of geotextile and geotextile-related quality of the product per unit area of \u200b\u200bgeosynthetics";

--- Remove the Normative references cited in standard GB 8170;

--- The scope of the words "all geotextiles and geotextile-related products";

--- Deleted Chapter 4 instruments and appliances;

--- Original standard Chapter 5 - Chapter 7, incorporated as standard in Chapter 4, as amended;

--- Increased geotextile related products sampling instructions;

--- Original standard Note 1 placed in the text (see 4.1);

--- Weighing accuracy by a 0.001g to 10mg;

Results --- mass per unit area is represented by a "press GB 8170 decimals a" to "rounding the result to 1g/m²".

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee on Basic Standards Subcommittee Textiles (SAC/TC209/SC1) centralized.

This standard was drafted. South-China Textile Industry Testing Center, Textile Industry Research Institute of Standardization.

1 Scope

This standard specifies the method for determination of geotextile and related quality product per unit area of geotextiles.

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

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6529 Textiles The humidity and atmospheric testing standard (GB/T 6529-2008, ISO 139:2005, MOD) GB/T 13760 Geosynthetics sampling and sample preparation (GB/T 13760-2009, ISO 9862:2005, IDT) Principle 3 Clipping size of the known square or circular specimens from the entire width and length of the sample, and it weighed, and then calculate the unit area Product quality.

Step 4

4.1 Sample Preparation

According to GB/T 13760 regulations sampled and cut an area of 100cm² sample of at least 10.

The sample should be representative. Measurement accuracy of 0.5%. If the sample is not representative of the product 100cm² entire structure, Use of larger area samples to ensure the accuracy of measurement.

For a relatively large mesh geotextile related products, such as geogrid or geotextile net, should constitute the mesh nodes connect two units Cut the center of the specimen. Longitudinal and transverse specimens should contain at least five constituent unit. It should be separately measured area of each sample.

The sample standard atmospheric conditions in GB/T 6529 provisions downward wet 24h, if the humidity can indicate the omission of the step of the test results do not Influence, this step can be omitted.

Weighing 4.2

Separately for each sample weighing accuracy of 10mg.

5 The results are shown According to equation (1) is calculated for each sample mass per unit area.

$\rho A =$

$M1 \times 10000$

Where.

ρA --- mass per unit area in grams per square meter (g/m

$M1$ --- sample mass, in grams (g);

A --- area of the sample, in units of square centimeters (cm²).

Calculate 10 samples the average mass per unit area, rounding the result to 1g/m², and calculate the coefficient of variation.