

ICS 59.080.70
CCS W 59



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

GB/T 16989-2013

Replacing GB/T 16989-1997

**Geosynthetics -- Tensile test for joints/seams by wide-width
strip method**

土工合成材料 接头/接缝宽条拉伸试验方法
(English Translation)

Issued on: October 10, 2013

Implemented on: May 1, 2014

Issued by: Standardization Administration of China

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 16989-1997 "geotextile joints/seams by wide strip tensile test method." This standard GB/T 16989-1997 compared to the main differences are as follows.

- The standard name of the geotextile to geosynthetics, geotextile text portion corresponding to geosynthetics;
- Introduction of the original parts incorporated in Chapter 1, increasing the range of products is not applicable;
- Chapter 2 adds GB/T 6682, GB/T 13759 and GB/T 16825.1 standard three references;
- 3.3 and 3.4 in terms of the unit is adjusted to represent Note;
- 5.1 removed CRT tensile testing machine, adding "consistent with GB/T 16825.1 of the two requirements";
- Jig alone as 5.2, and adds 1;
- Deletes from the original 6.3 sample preparation;
- Increased 6.3.1 General;
- 6.4 --- The title of the "directional characteristics" to "Indexes";
- 8.1 modify the range selection requirements, an increase of paragraph 3;
- Remove the condition excluded data 8.3, 8.4 culling criteria;
- Chapter 9 connector/formula seam strength and efficiency of letter symbols to letter symbols GB/T 13759 stipulated.

This revised standard adopts ISO 10321:2008 "Geosynthetics joints/seams by wide strip tensile test method" (in English). The standard Registration and ISO 10321. Compared to 2008, the main differences are as follows.

- A description of the relevant samples and maps into a range of 6.3.1, the figure adjusted

by the number 1 in Fig. 2;

--- Normative references are replaced by the corresponding international standard of national standards, GB/T 6529 instead of ISO 554.

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee Textile Industrial Textiles Technical Committee (SAC/TC209/SC7) centralized.

This standard was drafted. Textile Standard (Beijing) Inspection and Certification Center Co., Ltd., Shanghai Textile Research Institute, Ministry of Water Resources Shanghai survey provided Design Institute.

1 Scope

This standard specifies the method of using a wide strip joints and seams sample measured tensile properties of geosynthetic material.

This standard applies to most of the geosynthetics, geogrids also applies, but the sample size may need to make appropriate changes. This standard Does not apply to polymers or asphalt Geomembrane.

Tensile standard quantitative determination of geosynthetics joint or seam strength, can provide data indicate achievable joints/seams Powerful.

And tensile strength according to GB/T 15788 Determination of non-joint/expansion joint material, strong, able to calculate the joint/connection according to joint/joints Sewing efficiency.

This standard covers the determination of the two procedures the humidity and wet tensile properties of the sample.

For certain geosynthetics, such as high-strength geotextile mesh or glass fiber products manufactured, in order to prevent its slippage or in a fixture Injury may require some technical modifications.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6529 Textiles conditioning and testing using standard atmosphere (GB/T 6529-2008, ISO 139:2005, MOD) GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) GB/T 13759 Geosynthetics - Terms and definitions (GB/T 13759-2009, ISO 10318:2005, IDT) GB/T 13760 Geosynthetics sampling

and sample preparation (GB/T 13760-2009, ISO 9862:2005, IDT) GB/T 15788 geotextile related products - wide strip tensile test (GB/T 15788-2005, ISO 10319:1993, MOD) Inspection and tension and (or) pressure testing machine force measuring system. GB/T 16825.1 of static uniaxial testing machines - Part 1 Calibration (GB/T 16825.1-2008, ISO 7500-1:2004, IDT)

3 Terms and Definitions

GB/T 13759 and as defined in the following terms and definitions apply to this document.

Joint seam

The two or more separate planar structure of one or more materials such as geosynthetics or related products connecting continuous stitch.

Joint joint

The two or more separate geosynthetics, by other methods in addition to suture outside the connecting joints.

Joint/seam strength joint/seamstrength from the junction connecting two or more planar structure material formed by the maximum tensile strength.