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

GB/T 7689.1-2013

Replacing GB/T 7689.1-2001

**Reinforcements -- Test method for woven fabrics -- Part 1:
Determination of thickness**

增强材料 机织物试验方法 第1部分：厚度的测定

(English Translation)

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Foreword

GB/T 7689 "Test method for woven fabrics reinforced" is divided into five sections.

- Part 1. Determination of thickness;
- Part 2. warp, weft density measurement;
- Part 3. Determination of width and length;
- Part 4. Determination of bending stiffness;
- Part 5. Determination of breaking glass fiber tensile strength and elongation.

This part of GB/T 17689 Part of.

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

This Part replaces GB/T 7689.1-2001 "Reinforcements method for woven fabrics Part 1. Determination of thickness of glass fiber" and GB/T 7689.1-2001 main differences are as follows.

- The scope of application to glass fiber reinforced materials (see Chapter 1, Chapter 1 of the 2001 edition);
- Thickness of the scope of woven fabrics by "not less than 0.1mm" was changed to "greater than or equal to 0.01mm" (see Chapter 1, Chapter 1 of the 2001 edition);
- Remove the "Normative references" in the GB/T 18374-2001, increasing the GB/T 2918-1998 and ISO 2602 (See Chapter 2, Section 2 of the 2001 edition);
- Adds a test conditions (see 52, 2001 version 5.2.);
- Increase the content of the test report need to give [see Chapter 9 in e) and f items), 2001 edition of the Chapter 10 g) Items and h),].

This section uses redrafted law revision using ISO 4603:1993 "woven glass fabric thickness measuring machine." this part of ISO 4603:1993 and the technical differences for the

following reasons.

--- To increase the use of standards for products made of glass fiber woven fabric to expand into the reinforcing material woven fabric (see Chapter 1);

--- On normative references, this part has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- Remove the "Normative references" in ISO 139.

This part made the following editorial changes.

--- Consistent with the existing standard series, the standard name will be changed to "Reinforcements method for woven fabrics Part 1. Thickness measurement set".

--- Increasing the ISO 4603:2010 Content.1993/Amd.1.

This part of the National Standardization Technical Committee fiberglass (SAC/TC245) centralized.

This section is responsible for drafting. Nanjing Fiberglass Research and Design Institute Limited, the national glass fiber product quality supervision and inspection center.

1 Scope

GB/T 7689 provisions of this part of reinforced determination woven fabrics thickness.

This method is suitable for the yarn, and twisted (plied) yarn (continuous or fixed length), roving, textured yarn or a composite woven the thickness of greater than or equal to 0.01mm machine fabric.

For the staple fiber yarn or textured yarn woven fabric machine, comprising only of warp or weft yarns from these fabrics, the method can also be used the determination of compression ratio.

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 2918-1998 standard plastic sample conditioning and environmental tests (idt ISO 291:1997) ISO 2602 test results of the statistical analysis of the average assessment of the confidence interval (Statisticalinterpretationoftest results-Estimationofthemean-Confidenceinterval)

3 Terms and Definitions

The following terms and definitions apply to this document.

Fabric thickness thickness of fabric at a predetermined pressure the vertical distance between the two surfaces of the fabric, in millimeters (mm) as a unit.

Principle 4

Under pressure with the appropriate instruments to measure prescribed by adjusting the thickness of the wet sample.

5 Instruments

Static load 5.1 micrometer, with two polished and polished circular surface, the plane of less than 0.001mm, parallelism of less than 0.003mm.

Measuring surface should be able to move on its own axis in the vertical spindle measuring column should be vertical. Micrometer frame should have sufficient rigidity, and when not measuring column when the presser foot contact force of 15N applied to the case so that the frame will not produce more than 0.01mm deformation, can be read from the micrometer. use Check in micrometer calibrated meter should be accurate to $\pm 0.001\text{mm}$.

Micrometer can be used a) or b) above.

a) an electronic micrometer can be displayed to 0.001mm.

b) micrometer diameter dial, dial should be at least greater than 50mm, can read to 0.01mm immediate succession (after the decimal point third Bit estimated time). Equipped with a counter records the number of laps turned the big pointer. Indicator mechanism should be used jewels.