

ICS 59.100.10

CCS Q 36



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

GB/T 18371-2008

Replacing GB/T 18371-2001

Continuous glass filament yarn

连续玻璃纤维纱

Issued on: May 12, 2008

Implemented on: November 1, 2008

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Classification and designation

Foreword

This standard replaces GB/T 18371-2001 "continuous glass fiber yarn." This standard compared with GB/T 18371-2001 main changes are as follows:

--- The continuous glass fiber yarn and yarn into industrial grade electronic grade yarn, and were requested;

--- Added Appendix A "continuous glass fiber yarn Stiffness Test Method." Please note that some of the content of this standard may involve patents, the issuing authority of this standard should not bear the responsibility to identify these patents. Appendix A of this standard is an informative annex. The standard proposed by China Building Materials Industry Association. This standard by the National Standardization Technical Committee fiberglass (SAC/TC245) centralized. This standard is drafted by: Nanjing Fiberglass Research and Design Institute, Taishan Fiberglass Zoucheng Limited. Participated in the drafting of this standard. Zhuzhou bright glass fiber limited liability company. The main drafters of this standard. Chen Tong, Wang Yumei, Gedui Shi, Chen Shang, Shi Zhuo, Gao Xudong. This standard superseded standard previously issued as follows:

--- GB/T 18371-2001. Continuous glass fiber yarn

1 Scope

China's national product standard for continuous glass filament yarn - the twisted glass yarn from which electronic-grade and industrial fabrics are woven. It specifies the terms and definitions, the classification and code, the requirements, the test methods, the inspection rules, and the marking, packaging, transport and storage, and it applies to single and plied twisted yarns of filament diameter not greater than 13 micrometres and linear density below 600 tex. It does not apply to roving, staple fibre yarn or textured yarn. The 2008 edition made one change that matters more than all the others: it split the product into industrial grade and electronic grade and set separate requirements for each. Electronic-grade yarn is the raw material of printed circuit board substrate, and the demands there are of a different order. The yarn is woven into very thin fabric which is impregnated with resin to

make prepreg, and any irregularity - a broken filament, a fuzz ball, an inconsistency in twist, a variation in linear density - becomes a defect in a laminate on which conductor tracks tens of micrometres wide will be printed. Industrial-grade yarn goes into filtration, insulation, reinforcement and technical fabrics where those tolerances would be pointless expense. The requirements accordingly cover linear density and its variation, the twist and the twist balance, the tensile breaking strength and elongation, the filament diameter, the moisture content, the combustible content, and the yarn stiffness - the last with a test method given in an informative annex added in this edition, since stiffness governs how the yarn behaves on a high-speed loom. Issued on 12 May 2008 and in force since 1 November 2008, it replaces GB/T 18371-2001.

This standard specifies the terms and definitions of continuous glass fiber yarn, classification and code, requirements, test methods, inspection rules, marking, packaging, Transport and storage. This standard applies to single fiber diameter of not greater than 13 μ m, line density is less than 600tex, there is a continuous single yarn and twist doubled yarn. Unwell For roving, staple fiber yarn and textured yarn.

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 191 Packaging - Pictorial signs

GB/T 1549 sodium calcium aluminosilicate glass boron chemical analysis

GB/T 4202 glass fiber product code Determination of linear density.

GB/T 7690.1 Test method for yarns Part 1

GB/T 7690.2 Test method for yarns - Part 2. Determination of twist

GB/T 7690.3 Test method for yarns Part 3. Determination of glass fiber tensile breaking strength and elongation at break Determination of stiffness.

GB/T 7690.4 Test method for yarns - Part 4

GB/T 7690.5 Test method for yarns Part 5. Determination of fiber diameter

GB/T 7690.6 Test method for yarns - Part 6. Determination of twist balance index

GB/T 9914.1 Test methods of enhancing Part 1. Determination of moisture content

GB/T 9914.2 Enhanced Test methods - Part 2. Determination of glass fiber content of combustibles

GB/T 18374 reinforcing material terms and definitions

3 Terms and Definitions

GB/T 18374 to determine the terms and definitions apply to this standard.

4 Classification and designation

4.1 Categories E divided by the type of glass continuous glass fiber yarn (EC) and the base of continuous glass fiber yarn (CC). Divided by use of industrial-grade and electronic-grade yarn yarn (E).

4.2 Product Code Continuous glass fiber yarn product code shall comply with GB/T 4202, complementing elements of an electron with E grade yarn. Example 1. nominal fiber diameter of 7.5 μ m, the original thread density 22tex, and Chunghwa 2, twist is S, twist the industrial base 100 of continuous glass fiber Yarn is expressed as. CC7.5-22 x 1 x 2S100 Example 2. nominal fiber diameter of 9 μ m, the original thread density 68tex, and Chunghwa 2, twist is S, twist of electronic-grade E-glass fiber yarn continuous table

60 As shown. EC9-68 x 1 x 2S60 (E)