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

GB/T 5591.3-2018

**Combined flexible materials for electrical insulation -- Part 3:
Specifications for individual materials**

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3.1 Classification

Foreword

GB/T 5591 "Soft Composites for Electrical Insulation" includes the following three parts.

--- Part 1. Definitions and general requirements;

--- Part 2. Test methods;

--- Part 3. Individual material specifications.

This part is the third part of GB/T 5591.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 5591.3-2008 "Soft Composites for Electrical Insulation - Part 3. Specification for Individual Materials". This section

The main technical changes compared with GB/T 5591.3-2008 are as follows.

--- Revised the normative reference document (see Chapter 2, Chapter 2 of the.2008 edition);

--- Revised the product classification and classified the product classification according to the provisions of JB/T 2197 (see Chapter 3, Chapter 3 of the.2008 edition);

--- Removed the product model that is not available in China (Chapter 3 of the.2008 edition);

--- Added special heat-resistant paper (polyoxadiazole fiber paper) (see Chapter 3);

--- Modified product performance requirements (see Chapter 4, Chapter 4 of the.2008 edition);

--- Added "layering" and "heat affected" "stiffness" performance requirements (see Chapter 4);

--- In the test method, the "stratification" and "heat affected" "stiffness" test methods were

added (see 5.6, 5.7, 5.8).

This section uses the redrafting method to modify the use of IEC 60626-3:2012 "Soft Composites for Electrical Insulation Part 3. Single-item

Material specification.

This section has more structural adjustments than IEC 60626-3:2012. This section and IEC 60626-3 are listed in Appendix A.

2012 chapter number comparison list.

There are technical differences between this part and IEC 60626-3:2012. Appendix B gives the corresponding technical differences and their causes.

Watch list.

This part was proposed by China Electrical Equipment Industry Association.

This part is under the jurisdiction of the National Technical Committee for Standardization of Insulation Materials (SAC/TC51).

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1 Scope

This part of GB/T 5591 specifies the classification and naming, requirements, test methods, joints and supplies of soft composite materials for electrical insulation.

Claim.

This section applies to soft composite materials for electrical insulation.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 5591.1-2017 Flexible composite materials for electrical insulation - Part 1. Definitions and general requirements (IEC 60626-1.2009,

MOD)

GB/T 5591.2-2017 Flexible composite materials for electrical insulation - Part 2. Test methods (IEC 60626-2.2009, MOD)

GB/T 11026 (all parts) Electrical insulation materials heat resistance (IEC 60216, IDT)

JB/T 2197 Electrical insulation material product classification, naming and model preparation method

JB/T 3730 Evaluation of heat resistance of soft composite materials for electrical insulation and method

3.1.1 Classification method

Soft composites are classified by compositional materials.

3.1.2 polyester film cellulose paper soft composite material

The products in this section are divided into three models according to JB/T 2197 and the nominal thickness of polyester film. See Table 1.

Table 1 polyester film cellulose paper soft composite material model

Product number

Polyester film nominal thickness

Mm

6520-23 23

6520-36 36

6520-50 50

3.1.3 polyester film polyester fiber non-woven soft composite material

The products in this part are divided into three types according to JB/T 2197 and the nominal thickness and heat resistance grade of polyester fiber non-woven fabric. See Table 2.