

ICS 29.035.50

CCS K 15



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

GB/T 5019.2-2009

Replacing GB/T 5019-2002

**Specification for insulating materials based on mica -- Part 2:
Methods of test**

以云母为基的绝缘材料 第2部分：试验方法

(English Translation)

Issued on: June 10, 2009

Implemented on: December 1, 2009

Issued by: Standardization Administration of China

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4.1 General Description

Foreword

GB/T 5019 "with mica-based insulating materials" is divided into the following sections.

- Part 1. Definitions and general requirements;
- Part 2. Test methods;
- Part 3. Commutator separators and materials;
- Part 4. Mica paper;
- Part 5. electric equipment mica plate;
- Part 6. Polyester film reinforced B stage epoxy resin binder;
- Part 7. vacuum pressure impregnation (VPI) film reinforced with glass cloth and epoxy resin binder;
- Part 8. Glass fabric reinforcement B stage epoxy resin binder;
- Part 9. single wire wrapped with epoxy polyester film mica;
- Part 10. fire-resistant safety cables mica;
- Part 11. plastic mica plate.

This section GB/T 5019 Part 2.

The partial modification using IEC 60371-2:2004 "with mica-based insulating materials - Part 2. Test methods" (in English).

This section according to IEC 60371-2:2004 redrafted. This section lists the reg number and IEC 60371-2 in Appendix A.

2004 reg control list numbered.

Taking into account China's national conditions, in using IEC 60371-2:2004 when this part has made several modifications. These techniques are listed in Appendix B List surgery differences and the reasons for the reference.

This section instead of 5019-2002 "Test Method for insulating materials based on mica" GB/T .

This part of GB/T 5019-2002 compared to the main changes are as follows. increasing the "heating reduction", "softness", "edge curvature" "From the floor rate", "plasticity", "volume resistivity", "high-temperature insulation resistance." this section of the Appendix A, Appendix B are informative appendices.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee of the insulating material (SAC/TC51) centralized.

This section is drafted. Guilin Institute of Electrical Science.

1 Scope

GB/T 5019 provisions of this part of the bonded mica material, product and test methods to bond mica paper mica-based material.

This section applies to the electrical equipment by bonding mica or mica paper, with or without reinforcement materials bonded insulating material, and Suitable for mica paper.

2 Normative references

The following documents contain provisions which, through reference to GB/T 5019 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

1033.1-2008 non-plastic foam density measurement GB/T Part 1. Immersion method, liquid pyknometer method and titration method (ISO 1183-1:2004, IDT) GB/T 1408.1-2006 electrical insulating materials strength test methods - Part 1. Tests at power frequencies (IEC 60243-1. 1988, IDT) GB/T 1409-2006 Measurement of electrical insulating materials at power, audio, high-frequency (including meter wavelengths included) of the permittivity and dielectric loss Consumption factor recommended method (IEC 60250. 1969, MOD) GB/T 1410-2006 solid insulating material volume resistivity and surface resistivity test methods (IEC 60093. 1980, IDT) GB/T 9341-2008 Plastics - Determination of flexural properties (ISO 178:2001, IDT) Aging procedures and evaluation of test results. GB/T 11026.1-2003 heat resistance, electrical insulating materials - Part 1 (IEC 60216-1:2001, IDT) GB/T 11026.2-2000 determine the electrical insulation material heat resistance guide - Part 2. Test selection criteria (IEC 60216-2:1990, IDT) GB/T 11026.3-2006 heat resistance, electrical insulating materials - Part 3. Calculation of the heat resistance characteristic

parameters of procedures (IEC 60216-3:2002, IDT) GB/T 11026.4-1999 determine the electrical insulation material heat resistance guide - Part 4. Ageing ovens - Single - chamber ovens (IEC 60216-4-1:1990, IDT) ISO 67. 1981 muscovite blocks, sheets and sheets by size fractionation General requirements for three pairs of test Unless otherwise specified, the sample should be removed ± 2 °C temperature of 23 °C and a relative humidity of 50% $\pm$ 5% under treatment 24h. The test may be Temperature of 15 °C ~ 35 °C in the next. When the dispute, under the conditions of the test should be at a temperature of 23 °C $\pm$ 2 °C and a relative humidity of 50% $\pm$ 5% get on.

Sample Preparation 4 curable material

4.1 General Description

Samples were prepared by the following method, which applies only to the curable material.