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

GB/T 5019.8-2009

**Specification for insulating materials based on mica -- Part 8:
Glass-backed mica paper with a B-stage epoxy resin binder**

以云母为基的绝缘材料 第8部分：玻璃布补强B阶环氧树脂粘合云母带

(English Translation)

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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 8.

The partial modification of the use of IEC 60371-3-6:1992 "with mica-based insulating materials - Part 3. Specifications for individual materials 6 Articles. Glass fabric reinforcement B stage epoxy resin binder "and the first Amendment (2006) (in English).

This section according to IEC 60371-3-6:1992 and the first redrafting Amendment (2006). Taking into account China's national conditions, in use IEC 60371-3-6:1992 and the first

Amendment (2006), this part has made several modifications. About the technical differences between them involved Terms of the margin identified by a single vertical line.

This part of IEC 60371-3-6:1992 and the first Amendment (2006) The differences are as follows.

- 1) Remove IEC 60371-3-6:1992 Foreword;
- 2) consider the condition of our country does not use IEC 60371-3-6:1992 Type of product naming;
- 3) the length of its diameter bonded mica tape volumes and disk representation (IEC 60371-3-6 to tape length indication);
- 4) increase the "edge curvature", "gel time", "softness", "electric strength (uncured)" performance requirements;
- 5) A "inspection rules" chapter;
- 6) increase of the applicable content and storage conditions.

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. Sichuan East wood Technology Group Co., Xi'an Electric Electrical Materials Co., Ltd., Harbin celebrate edge Electrical Materials Co., Ltd., National Engineering Research Center of insulating material, Guilin Institute of Electrical Science.

1 Scope

GB/T 5019 provisions of this part of the electrical insulation mica paper and glass cloth impregnated with epoxy resin composite and mica paper made of Material performance requirements, test methods, inspection rules, marking, packaging, transportation and storage.

This section applies to the epoxy adhesive, single or double sided electrical alkali-free glass cloth as reinforcing material bonded mica, which marked Thickness from 0.09mm to 0.28mm, to strip, sheets or roll soft state service, the B stage by the use of the final product after curing.

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.

GB/T 5019.2-2009 mica-based insulating materials - Part 2. Test methods (IEC 60371-2:2004, MOD) GB/T 5019.4-2009 mica-based insulating materials - Part 4. mica paper (IEC 60371-3-2:2005, MOD)

3 Product Categories

This part of the product according to the heat resistance and reinforcing Classification Model, Model Table 1.

Table 1 Model

Model range Adhesives 5438-1 epoxy TOA suitable for operating temperature of 130 °C various motors, electrical insulation.

5440-1 Tong Ma anhydride epoxy suitable for operating temperature of 155 °C various motors, electrical insulation.

5440-1K Tong Ma anhydride epoxy suitable for operating temperature of 155 °C various motors, electrical insulation.

4.1.1 Mica paper

This section relates to the mica paper shall comply with GB/T 5019.4-2009 requirements.

4.1.2 Glass cloth

Typically, glass cloth should be continuous filament glass fibers made of E-glass, except otherwise agreed by both parties, should be woven glass cloth State, the sizing agent content by weight should not exceed 2%.

4.1.3 Epoxy

As long as the properties of the material to meet the requirements of this section, you can use different types of epoxy resin.

4.2.1 Appearance

Mica bonding does not allow foreign matter.