

ICS 29.035.99

CCS K 15



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

GB/T 5019.9-2009

**Insulating materials based on mica -- Part 9: Polyester film mica
paper with an epoxy resin binder for single conductor taping**

以云母为基的绝缘材料 第9部分：单根导线包绕用环氧树脂粘合聚酯薄膜云母带

(English Translation)

Issued on: June 10, 2009

Implemented on: December 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Foreword

1 Scope

2 Normative references

3 Named

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 9.

The partial modification of the use of IEC 60371-3-7:1995 "with mica-based insulating materials - Part 3. Specifications for individual materials 7 Posts. single wire wrapped with epoxy polyester film mica paper "and the first Amendment (2006) (in English).

This section according to IEC 60371-3-7:1995 and the first redrafting Amendment (2006). Taking into account China's national conditions, in use IEC 60371-3-7:1995 and the first Amendment (2006), this part has made several modifications. About the technical differences between them have been involved in the terms of the margin identified by the vertical single line.

This part of IEC 60371-3-7:1995 and a first Amendment (2006) Differences.

- a) increasing the "margin of the curved degree" performance requirements;
- b) increase the "inspection rules" chapter.

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. Bard Electric Wire Co., Ltd., Jiangsu, Shanghai Xinyi Insulation Materials Co., Ltd., Beijing Science and Technology have Metin Lingyun Yun mother Ltd., Shanghai Science and Technology Development Co., Ltd. reached, Guilin Institute of Electrical Science.

1 Scope

This section GB/T 5019 provides for a single wire wrapped with mica tape comprising a polyester film and an epoxy resin binder of electrical isolation Insulating material performance requirements, test methods, inspection rules, marking, packaging, transportation and storage.

This section applies to a different thickness of a single layer or double layer composed of a polyester film with a reinforcing material having a nominal thickness from 0.07mm ~ 0.10mm, supplied a soft state, 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 5019.1-2009 mica-based insulating materials - Part 1. Definitions and general requirements (IEC 60371-1:2003, IDT) 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) GB/T 13542.4-2009 Film for electrical insulation - Part 4. Polyester film (IEC 60674-3-2:1992, MOD)

3 Named

When ordering materials in this section, just reported part number, product serial number and DOI (see Table 1).

For example, GB/T 5019.9.1.01 type Model is derived by the following section.

--- Part Number. 9

--- Product Classification 1 or 2 1. Representative single-sided polyester film reinforced products 2. Representative double-sided polyester film reinforced products

--- Product Number. 01 Therefore, given 9.1.01 type.

Table 2 marked with a (composition) Description Code, for example, Table 2 9.1.01 type F30/M50/R5, are derived by the following section.

--- Film thickness (F) 30 μ m

--- Muscovite content (M) 50g/m²

--- Resin content (R) 5g/m² Another example of Table 2 9.2.02 type F20/M65/R5/F20, was obtained by the following section.

--- A film thickness (F) 20 μ m

--- Muscovite content (M) 65g/m²

--- Resin content (R) 5g/m²

--- Another film thickness (F) 20 μ m