

ICS 29.035.50  
CCS K 15



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

**GB/T 5019.5-2014**

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**Insulating materials based on mica -- Part 5: Rigid mica  
materials for heating equipment  
(English Translation)**

**Issued on: July 24, 2014**

**Implemented on: February 1, 2015**

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**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine**

## Table of Contents

|                                       |   |
|---------------------------------------|---|
| Foreword...                           | 3 |
| 1 Scope...                            | 5 |
| 2 Normative References...             | 5 |
| 3 Product Classification...           | 5 |
| 4 General Requirements...             | 6 |
| 5 Defects and Conductive Particles... | 6 |
| 6 Thickness and Tolerance...          | 6 |
| 7 Property Requirements...            | 7 |
| 8 Bending Strength...                 | 7 |
| 9 Delivery Mode...                    | 7 |
| 10 Mark...                            | 8 |

### Foreword

GB/T 5019 Insulating Materials based on Mica shall be divided into the following parts.

- Part 1.Definitions and General Requirements;
- Part 2.Methods of Test;
- Part 3.Commutator separators and materials;
- Part 4.Mica Paper;
- Part 5.Rigid Mica Materials for heating Equipment;
- Part 6.Polyester Film-backed Mica Paper with a B-Stage Epoxy Resin Binder;
- Part 7.Glass-Backed and Film-Backed Mica Paper with an Epoxy Resin Binder for Vacuum Pressure Impregnation (VPI);
- Part 8.Glass-Backed Mica Paper with a B-Stage Epoxy Resin Binder;
- Part 9.Polyester Film Mica Paper with an Epoxy Resin Binder for Single Conductor Taping;
- Part 10.Mica Paper Tapes for Flame-Resistant Security Cables;
- Part 11.Moulding Micanite.

This Part belongs to Part 5 of GB/T 5019.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 5022-1998 Rigid Mica Materials for Heating Equipment; compared with GB/T 5022-1998, this Part has the following differences.

- The products can be divided into 6 types according to the product applied different mica substrate and adhesive types. And the required value on corresponding product thickness and performance are added;
- Delete "test methods" and "inspection rules";
- Add "delivery mode" (see Chapter 8);
- Change "mark, package, transportation, and storage" into "mark";
- Add the appendix A.

This Part adopts re-drafting method to modify and use IEC 60371-3-3.1983

Insulating Materials based on Mica -

Part 5.Rigid Mica Materials for Heating Equipment

## 1 Scope

This Part of GB/T 5019 specifies the classification, requirements, delivery mode and mark of the splitting-mica-and-mica-paper-based mica plate for electric heating equipment.

This Part is applicable to the mica pate combining the splitting mica, mica paper and appropriate adhesive.

## 2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 5019.2-2009 Insulating Materials based on Mica - Part 2.Test Methods (IEC 60317-2.2004, MOD)

### 3 Product Classification

The products shall be classified as per its composition and Table 1.

Table 1 Mica Plate for Electric Heating Equipment

Types Compositions

HS1

HS2

HS3

HS4

HS5

HS6

Splitting white mica, organic adhesive

Splitting golden mica, organic adhesive

Splitting white mica, organic silicone resin adhesive

Mica paper, organic adhesive

Mica paper, organic silicone resin adhesive

Mica paper, inorganic adhesive

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